

Lucent Technologies
Bell Labs Innovations



SLC[®] Series 5 Carrier System

Ordering Guide

363-205-000 K
Issue 5
March 1997

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Title: SLC® Series 5 Carrier System, Ordering Guide

Identification No.: 363-205-000

Issue No.: 5

Date: March 1997

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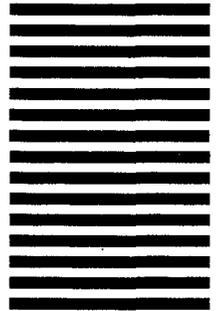
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About This Document

Purpose

Overview

Introduction

This document provides equipment ordering information for the *SLC*[®] Series 5 Carrier System. This document also includes ordering information for common apparatus and equipment needed to house, maintain, turnup, and test a Series 5 system. Each chapter contains a table of contents, a brief topical description of the equipment covered, an equipment description section (including applicable ordering codes), a miscellaneous related equipment and batteries section (if applicable), and a list of related documents. This document completely replaces Document 363-205-000, Issue 4 (including Revision 1 to Issue 4).

Intended Audience

Who uses this Document?

Customers



NOTE:

GTE customers use Document 363-205-000G to order Series 5 equipment.

This ordering guide was developed to assist telephone company personnel [independent companies and the Regional Holding Companies (RHCs)] in ordering *SLC* Series 5 Carrier System equipment. This ordering guide is primarily used by network planners, transmission equipment engineers, account executives (including Lucent Technologies account executives), product evaluators, procurement, and maintenance personnel.

Reason for Reissue

Changes Made Since Last Issue

Format change	This document is reissued to reflect the availability of new and changed <i>SLC</i> Series 5 Carrier System equipment and apparatus. In addition, the format of this document has been changed with respect to previous issues. The information in this document is written and presented in the structured writing format which is based on Information Mapping* writing techniques.
Equipment and apparatus availability	Some equipment or apparatus codes in this document are new or no longer available. For your convenience, two superscripts are used to highlight significant changes in equipment and apparatus availability. The <i>DA</i> superscript (^{DA}) placed at the end of an apparatus or equipment code signifies the code has been rated discontinued availability. The <i>NEW</i> superscript (^{NEW}) placed at the end of an apparatus or equipment code signifies the code has been added to this issue of the document.
FP303 BCU and TRU release 3.0 firmware	Feature Package 303 (FP303) Bank Control Unit (BCU) and Transmit/Receive Unit (TRU) Release 3.0 firmware is released to accommodate the common management information protocol (CMIP-91) version and as well as to provide interoperability with the <i>5ESS</i> [®] switch, <i>GTD-5</i> [†] switch, and <i>DMS-100</i> [‡] switch. Release 3.0 BCU and TRU are backward compatible in the <i>5ESS</i> switch as the <i>5ESS</i> switch can support either CMIP-89 or CMIP-91 version.

* Registered trademark of Information Mapping, Incorporated.

† Registered trademark of GTE Corporation.

‡ Trademark of Nortel.

How to use this Document

Organization

Introduction

The publication of Document 363-205-010, *SLC Series 5 Carrier System, Applications and Planning Guide* has enabled this document to be changed to more effectively deal with the identification, selection, and procurement of Series 5 equipment. This issue contains an index, a table of contents for each chapter, and a worksheet [for selecting remote terminal (RT) cabinet groups and configurations].

This ordering guide is arranged into chapters which correspond to different equipment types in a Series 5 digital loop carrier system. Knowledge of digital loop carrier systems may be assumed in some chapters of this ordering guide. The chapters in this ordering guide are organized as follows:

“About This Document”

This section defines the purpose, scope, and intended audience for this document and tells how to obtain technical support for a Series 5 system.

Chapter 1, “System Description”

This chapter describes the basic operation, services, and features of a *SLC* Series 5 Carrier System.

Chapter 2, “Central Office Terminal Frames and Associated Equipment”

This chapter describes the equipment (frames, channel banks, and accessory shelves) necessary to equip a Series 5 central office terminal (less the circuit packs).

Chapter 3, “Central Office Terminal Circuit Packs”

This chapter describes the circuit packs required by the central office terminal to provide service from a Series 5 system.

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Organization (Continued)

**Chapter 4,
“Remote Terminal
Frame and
Associated
Equipment”**

This chapter provides ordering information for the ED-8C500-50, G5 RT frame and the equipment necessary to equip it (less RT circuit packs).

**Chapter 5,
“Remote Terminal
Circuit Packs”**

This chapter describes the circuit packs required by the RT to provide service from a Series 5 system.

**Chapter 6,
“Remote Terminal
Cabinets”**

This chapter describes the RT cabinets which may be used to house Series 5 RT systems.

**Chapter 7, “Test
Controller
Equipment”**

This chapter provides ordering information for the pair gain test controller (PGTC), the extended test controller (XTC), and centralized operations and provisioning (COP) equipment (including circuit packs needed for each test controller).

**Chapter 8, “Craft
Interface Unit”**

This chapter provides ordering information for the J99404TA-1,L3 craft interface unit.

**Chapter 9, “Test
Bus Control Unit”**

This chapter provides ordering information for the J1C189A1,L1 test bus control unit and associated SM499 and SM500 circuit packs.

**Chapter 10,
“Remote
Measurement
Unit”**

This chapter provides ordering information for the ED-7C654-30 remote measurement unit.

(Continued on next page)

Organization (Continued)

**Chapter 11,
“Turnup, Test, and
Maintenance
Equipment”**

This chapter describes equipment normally associated with the installation, turnup, and maintenance of a *SLC* Series 5 Carrier System. This chapter includes information on test sets, test cords, test extenders, fuses, terminating plugs, tools, and meters.

**Chapter 12, “T1
Line Equipment”**

This chapter describes equipment normally associated with T1 lines that serve a *SLC* Series 5 Carrier System. This chapter includes ordering information for associated T1 repeaters, apparatus cases, cable closures, and fault-locate filters.

**Appendix 1,
“Quick Reference
Ordering Guide”**

This appendix provides experienced users of this guide with a means to quickly extract general information and ordering codes for the most popular Series 5 equipment.

Customer Assistance and Technical Support

Regional Technical Assistance Center (RTAC)

Introduction

Lucent Technologies can provide customer assistance on the Series 5 system (either in or out of warranty period), including troubleshooting assistance, technical consultation, operational problem consultation, procedural advice, and emergency recovery assistance through a qualified system support professional.

1-800-225-RTAC

Service is provided by the Regional Technical Assistance Center (RTAC) at 1-800-225-RTAC. This telephone number is monitored 24 hours a day, 7 days a week. During regular business hours your call will be answered by your local regional RTAC. Outside normal business hours, all calls will be answered at a centralized technical assistance center where service affecting problems will be dispatched immediately to your local RTAC. All other problems will be referred to your RTAC on the next regular business day.

Customer Information Products (CIPs)

SLC Series 5 System Documentation

Introduction

The following categories of 9-digit numbered documents provide most of the Series 5 system documentation:

- Indexes
- Applications and planning guides
- Ordering guides
- Descriptive documents
- Engineering documents
- Data sheets
- Task-oriented practices (TOPs)
- User guides/manuals.

See information under Outside Plant Documentation and under Drawings for additional documentation on the Series 5 system and related equipment.

Select code ordering information

Documentation relating to the *SLC* Series 5 Carrier System has been consolidated into separate categorized volumes of information — Volumes I and II are further categorized into tabs. These volumes may be ordered from the Customer Information Center (1-888-582-3688) by specifying the Select Code for each volume. The following list contains the Select Code and description of the volume:

- Volume I (Select Code 005-001): Description, Engineering, and Ordering Information.
 - Tab 1: General Description
 - Tab 2: Engineering
 - Tab 3: Ordering Guide
 - Tab 4: RT Cabinets
 - Tab 5: Test Equipment.
-

(Continued on next page)

SLC Series 5 System Documentation **(Continued)**

Select code ordering information (continued)

- Volume II (Select Code 005-002): Turnup and Test Procedures.
 - Tab 1: COT Testing
 - Tab 2: RT Testing
 - Tab 3: Channel Unit Installation
 - Tab 4: System Testing
 - Tab 5: Maintenance Testing.
 - Volume III (Select Code 005-003): *SLC Series 5 Carrier System Proprietary Drawing Information*.
 - Volume IV (Select Code 005-004): *SLC Series 5 Carrier System Data Sheets*.
-

Division 363 document index

The numerical index for each division (first 3 digits of the 9-digit number) lists the current issue of the available Lucent Technologies documents in that division. The index also lists appendixes and addenda to the current issue. Currently, active indexes are being updated about four times a year. Document 363-000-000, *Numerical Index — Division 363, Loop Transmission Systems* lists all 9-digit numbered documents (that start with 363) for Series 5 and other loop transmission systems. The Division 363 Index layers (second 3 digits) include data sheets (363-005), *SLC*[®] 96 Carrier System documents (363-202), *SLC Series 5 Carrier System* documents (363-205), and *SLC-2000 Access System* documents (363-208).

The Series 5 documents in this division include the following:

- 363-205-000, *SLC Series 5 Carrier System, Ordering Guide*
 - 363-205-002, *SLC Series 5 Carrier System, Fiber To The Home Feature User's Manual*
 - 363-205-010, *SLC Series 5 Carrier System, Applications and Planning Guide*
 - 363-205-100, *SLC Series 5 Carrier System, General Description*
 - 363-205-101, *Craft Interface Unit, Description*
-

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SLC Series 5 System Documentation (Continued)

Division 363 document index

- 363-205-103, *SLC Series 5 Carrier System, Centralized Operations and Provisioning, Installation, Test, and Maintenance*
- 363-205-104, *SLC Series 5 Carrier System, Integrated Network Access — Remote Terminal (INA-RT) User's Manual*
- 363-205-106, *SLC Series 5 Carrier System, AUA90 T-BRITE Channel Unit for ISDN, Installation and Maintenance*
- 363-205-107, *SLC Series 5 Carrier System, AUA93 BRITE II Channel Unit for ISDN, Installation and Maintenance*
- 363-205-300, *Extended Test Controller, Description, Installation, and Maintenance*
- 363-205-400, *SLC Series 5 Carrier System, COT Acceptance and Turnup (TOP)*
- 363-205-401, *SLC Series 5 Carrier System, RT Acceptance and Turnup (TOP)*
- 363-205-402, *SLC Series 5 Carrier System, Channel Unit Installation (TOP)*
- 363-205-406, *SLC Series 5 Carrier System, End-to-End Tests (TOP)*
- 363-205-500, *SLC Series 5 Carrier System, Trouble Clearing (TOP)*

Applications and planning guides

These documents provide guidelines for network planners for system applications. The applications and planning guide provides a high-level description of system features, arrangements, interfaces, components/equipment, and operations, administration, maintenance, and provisioning (OAM&P). Applications typically are presented as block diagrams showing various system arrangements, equipment interfaces, and how the system fits into the network. Some engineering information is given, and training is covered. Appendixes provide details on special features of the system. Document 363-205-010, *SLC Series 5 Carrier System Applications and Planning Guide*, contains a network overview, system applications, equipment description, channel unit information, OAM&P, references, and training.

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SLC Series 5 System Documentation (Continued)

Ordering guides

The ordering guide provides ordering information (equipment and apparatus codes) for the system. It includes information on how many of each unit, shelf, bank, and/or bay are required for each system arrangement. Also listed are miscellaneous units and special test equipment. Document 363-205-000, *SLC Series 5 Carrier System Ordering Guide*, has tables listing the units for the system feature packages, some discontinued availability (DA) equipment, common and channel units, cabinet arrangements, miscellaneous equipment, and channel and digital line test equipment.

Descriptive documents

Descriptive documents usually include physical and functional characteristics and features in a technical style. Depending on the unit, descriptive information may be combined with engineering, installation, and/or operation information. Descriptive documents may contain procedural information in the step-procedure format (used mainly for short, simple procedures) or flowchart format (used typically for trouble clearing). The data sheet is a descriptive document that contains procedures. Some Lucent Technologies practices use the step-procedure format. Document 363-205-100, *SLC Series 5 Carrier System General Description*, includes an overview of the system features, a functional description at the block-diagram level, a description of the physical features of the channel bank and plug-in units, maintenance information, and a summary of system specifications.

Engineering documents

Engineering documents specify requirements for engineering a system. The requirements include equipment constraints, customer considerations, circuit or facility design information, physical design constraints, etc. In digital and loop transmission systems, engineering is covered in two separate documents:

- 915-710-115, *SLC Series 5 Carrier System, Application Engineering, Facility Design Systems*
- 915-710-116, *SLC Series 5 Carrier System, Channel Unit Application and Prescription Setting*.

Document 915-710-115 covers Series 5 system facility design or system engineering, central office considerations, remote terminal arrangements, system alarm requirements, digital facility engineering (including fault locating and order wire requirements), test facility engineering, distribution (loop) considerations, circuit assignment for nonprovisionable channel units, and miscellaneous considerations (forms/records and acceptance testing).

(Continued on next page)

SLC Series 5 System Documentation (Continued)

Engineering documents (continued)

Document 915-710-116 covers Series 5 channel unit application and prescription setting (structured like the D4 channel unit engineering document), special service and data applications, prescription setting for the provisionable channel units, and a summary of carrier serving area (CSA) guidelines.

Data sheets

The data sheets provide detailed information for plug-in units (usually just circuit packs, not shelves). The data sheet gives a detailed description of the unit's operation, controls, and indicators, and provides figures showing a functional block diagram of the unit and a line drawing of the faceplate and circuit board. Some data sheets contain details on unit maintenance, including test procedures. For example, Document 363-005-132, *AUA75 2-Wire PLAR Channel Unit Data Sheet*, has procedures to set the option switches on the channel unit and to test channel unit transmission and signaling end-to-end.

The Series 5 data sheets (Documents 363-005-101 through 363-005-304) cover the common units, channel units, *SLC-2000* Access System multi-services distant terminal (MSDT) units, extended test controller (XTC) units, and miscellaneous units (adapters, test extenders, etc.). Each data sheet is assigned a unique 9-digit number within the range of numbers for the system. (Series 5 data sheets are within the range Documents 363-005-101 through 363-005-399.)

Task-oriented practices (TOPs)

Procedures for acceptance or installation testing and maintenance are given in a highly-structured format in task-oriented practices. These documents exist in two different formats. The older TOPs were done in a flowchart style turned sideways on each page (flowchart TOP). A newer, text style format (vertical page TOP) was developed later that uses numbered steps in a list format with-if-then questions replacing the decision blocks used in the flowchart style. The TOP uses layered procedures with the different layers coded for identification. The TOP system is explained in a 10-page training package (always coded TNG-893) in the back of every TOP.

(Continued on next page)

SLC Series 5 System Documentation (Continued)

Task-oriented practices (TOPs) (continued)

The Series 5 TOP documents are listed below:

- | | |
|--------------------|--|
| 363-205-400 | Central Office Terminal Acceptance and Turnup TOP — Procedures for accepting the Series 5 COT, installing the common units for each feature package, converting feature packages, and turning up the system. |
| 363-205-401 | Remote Terminal TOP — Procedures for accepting and powering the Series 5 RT, turning up the RT and DT, and converting feature packages. |
| 363-205-402 | Channel Unit Installation TOP — Procedures for installing channel units for each system configuration and testing channel unit transmission and signaling from COT to RT for nonprovisionable channel units and from end-to-end for provisionable channel units. |
| 363-205-406 | End-To-End Tests TOP — Procedures for changing the system status from preservice to in-service and verifying that the system works end-to-end. |
| 363-205-500 | Maintenance and Trouble-Clearing TOP — Procedures for clearing system alarms and channel failure and trouble isolation on the digital facility. |

User guides/manuals

The definition given here for user guides/manuals differs from the definitions given in the new Lucent Technologies documentation standards. As the standards are implemented, this category should become more consistent. In the definition given here, the words "guide" and "manual" have the same meaning.

For a stand-alone product (for example, the DDM-2000 multiplexer) or independent system feature (for example, the Series 5 INA-RT), the user's guide/manual provides a single document containing all the information needed to use the product or feature. It explains when, why, and how to use the feature or product and briefly describes the product's hardware, software, and features. It also provides step-by-step instructions for installation, operation, and maintenance. A user guide/manual may be part of a documentation package that includes one or two other documents, such as an applications, planning, and ordering guide.

(Continued on next page)

SLC Series 5 System Documentation (Continued)

**User guides/manuals
(continued)** Document 363-205-002, *SLC Series 5 Carrier System Fiber To The Home Feature User's Manual*, contains applications, a physical and functional description, system engineering, operations and administration, construction and installation, maintenance, and appendixes (ordering information, data sheets, etc.).

**Outside plant
documentation** Outside plant documentation on transmission apparatus, cables, and enclosures spans several divisions. Division 622 covers conduit, manholes, and cable vaults, including the concrete hut and controlled environment vaults used for Series 5 systems. Division 626 (cables, wire, and apparatus - general) documents the different kinds of cables and provides ordering information and lettering guidelines for the 80-type outside plant cabinets. Division 631 (cable terminals) documents exchange cable identification, different types of connector blocks, and splicing information for pedestals and cabinets. Division 640 (outside plant - carrier apparatus) covers carrier apparatus cases (which house repeaters for digital lines), *SLC Carrier System* splicing in various cabinets and enclosures, and lightguide cable systems. Refer to Document 000-000-002, *Lucent Technologies 9-Digit Numbered Documents Master Index*, for other divisions of outside plant documentation.

Outside plant documentation (a partial list) on the Series 5 system includes the following:

- 622-506-052, *KS-23038 Controlled Environment Vault Description*
 - 622-506-235, *Concrete Hut ED-7C285-30, Description and Installation*
 - 622-506-236, *KS-23038 Controlled Environment Vault Installation*
 - 622-506-237, *KS-23038 Controlled Environment Vault Operation and Maintenance*
 - 626-500-105, *80-Type Cabinet, Coding Scheme, Ordering Information, and Lettering Guidelines*
 - 631-600-240, *8B, C, and D Size Cabinets, Installation*
 - 631-600-241, *80B, C, and D Size Cabinet, Splicing Information*
 - 640-250-223, *80-Type Cabinet Remote Terminal, Installation and Splicing (Metallic Systems)*
 - 640-250-224, *Remote Terminal Splicing, Precabled Structures Using Bulk Protection*
 - 640-250-237, *51A RT Cabinet (ED-7C601-30) Placement, SLC Series 5 System*
-

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SLC Series 5 System Documentation (Continued)

Outside plant documentation (continued)

- 640-250-239, *51A Cabinet With DDM-2000 OC-3 and DDM-Plus, Splicing and Equipment Installation*
- 640-250-247, *SLC Series 5 Carrier System Dual Channel Banks (Metallic), Field Installation of SLC Series 5 Carrier System Remote Terminal Into 80-Type Cabinets Precabled for the SLC Series 5 Carrier System*
- 640-250-248, *Precabled Structure Using Bulk Protection Metallic Remote Terminal Splicing SLC Series 5 Carrier System*
- 640-250-250, *Precabled Structures Using Bulk Power and Protection, Splicing, and Cabling Arrangements (Metallic and Fiber SLC Carrier Systems)*
- 640-250-251, *16-Foot and 24-Foot Platforms Description SLC Series 5 Carrier System*
- 640-250-252, *80D Cabinet (Fiber) Group 80 Description, Installation, and Splicing, SLC Series 5 Carrier System*
- 640-250-255, *80D Cabinet (Fiber) Group 90, 91, 92 Description, Installation, and Splicing, SLC Series 5 Carrier System*
- 640-250-256, *80E Cabinet (Fiber) Group 90 and 91, Description, Installation, and Splicing, SLC Series 5 Carrier System and SXSS Repeater Shelf*
- 640-250-273, *80A (Bulk Power) Cabinet (Fiber Group 490), Splicing and Equipment Installation, Combined SLC Series 5 and SLC-2000*
- 640-250-290, *80D-BP (Bulk Power) Cabinet (Fiber: Group 490), Splicing and Equipment Installation, Combined SLC Series 5 and SLC-2000*
- 640-250-298, *80E-BP (Bulk Power) Cabinet (Fiber: Group 190), Splicing and Equipment Installation*
- 640-250-325, *80D Cabinet Description, Installation, and Splicing SLC Series 5 Carrier System*
- 640-250-327, *80E Cabinet Remote Terminal, Description, Installation, and Splicing*
- 640-252-310, *Concrete Hut (ED-7C285-30) Splicing (Metallic and Fiber Systems), Combined SLC 96 and SLC Series 5 Carrier Systems*
- 640-252-311, *C Equipment Platform Splicing (Metallic and Fiber Systems), Combined SLC 96 and SLC Series 5 Carrier Systems*
- 640-252-312, *80-Type Cabinets, Description, Installation, and Splicing, Combined SLC 96 and SLC Series 5 Carrier Systems*
- 644-203-155, *80-Type Cabinet, Repair and Replacement Parts*

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SLC Series 5 System Documentation (Continued)

Drawings

Equipment drawings (J drawings), apparatus drawings (A drawings), schematic drawings (SDs), and circuit descriptions (CDs) provide detailed wiring, cabling, schematic, and physical information. Circuit descriptions (when available) use the same number as the schematic drawing. There may be limited availability on some drawings. Refer to Division 801 for J drawings and other equipment specifications.

The following drawings contain detailed information on Series 5 equipment and related systems:

- *Writing Shelf, ED-30335-70*
- *Central Office Terminal Channel Bank Schematic, SD-/CD-7C115-01*
- *Central Office Terminal Application and Bay Wiring Schematic, SD-/CD-7C116-01*
- *Remote Terminal Dual Channel Bank Schematic, SD-/CD-7C117-01*
- *Remote Terminal Application and Bay Wiring Schematic, SD-/CD-7C118-01*
- *Remote Terminal Power Shelf Schematic, SD-/CD-7C119-01*
- *Floor Plan Data Sheet, SLC Series 5 Carrier System Central Office Terminal, 11-foot 6-inch Frame (Six Dual Channel Banks), FPD 801-450-106-1*
- *Floor Plan Data Sheet, SLC Series 5 Carrier System Central Office Terminal, 11-foot 6-inch Frame (Five Dual Channel Banks), FPD 801-450-106-2*
- *Floor Plan Data Sheet, SLC Series 5 Carrier System Central Office Terminal, 9-foot 0-inch Frame (Four Dual Channel Banks), FPD 801-450-106-3*
- *Floor Plan Data Sheet, SLC Series 5 Carrier System Central Office Terminal, 7-foot 0-inch Frame (Three Dual Channel Banks), FPD 801-450-106-4*
- *Floor Plan Data Sheet, SLC Series 5 Carrier System Remote Terminal, 7-foot 0-inch Frame (Two Dual Channel Banks), FPD 801-450-106-5*
- *Floor Plan Data Sheet, SLC Series 5 Carrier System Remote Terminal, 7-foot 0-inch Frame [Three Dual Channel Banks (DC Bulk Power)], FPD 801-450-106-6*

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SLC Series 5 System Documentation (Continued)

Drawings (continued)

- *Extended Test Controller Control Shelf, SD-/CD-7C127-01*
- *Pair Gain Test Controller Control Shelf, SD-/CD-97760-01*
- *Patch and Cross-Connect Panel, SD-/CD-99503-01*
- *Data Link Interface, SD-/CD-1P112*
- *Metallic Interface Unit, SD-/CD-1P113-01*

Related documentation

The following documents contain information on systems and equipment related to the Series 5 system. The numerical index for each division (for example, Document 363-000-000, *Numerical Index — Division 363, Loop Transmission Systems*) lists the current issue of the Lucent Technologies documents in that division. Refer to the numerical index for availability of Lucent Technologies documents listed below:

- 000-100-100, *Lucent Technologies Practices, Description*
- 100-101-401, *197A Battery Load Test Set, Description and Operation*
- 157-627-101, *Storage Battery, KS-21906 Sealed, Rechargeable, Lead-Acid, Description, Installation, and Maintenance*
- 235-019-102, *General Growth Procedures*
- 235-190-029, *Pair Gain Interface to Nonintegrated SLC Carrier System*
- 235-190-036, *Integrated SLC Carrier System*
- 332-610-100, *Customer Premises Facility Terminal for Metallic Facility Terminal Plug-In Equipment, General Description*
- 363-005-zzz, *SLC Series 5 Carrier System Data Sheets*
- 363-200-001, *T-Type Digital Line Preservice Testing*
- 363-200-005, *Integrated SLC Carrier System, Recent Change*
- 363-200-010, *DCLU Integrated SLC Carrier System, General Information Manual*
- 363-201-216, *Active Fault-Locating System, ED-2C374 Active Fault-Locating Panel Turnup, Active Filter (1114/1115-Type) Preinstallation Tests, and Initial Fault-Locating Line and System Tests*
- 363-202-300, *Pair Gain Test Controller, Description and Installation*

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SLC Series 5 System Documentation (Continued)

**Related
documentation
(continued)**

- 363-202-525, *SLC Carrier System, Remote Power Feed Terminal (RPFT) Description, Installation, and Maintenance*
- 363-202-602, *Bulk Protected Remote Terminals Installation of Shelves, SLC Series 5 Carrier and SLC 96 Carrier Systems*
- 363-203-100, *Subscriber Loop Interface Module (SLIM), General Description*
- 363-203-101, *Subscriber Loop Interface Module (SLIM), Installation and Maintenance*
- 363-205-002, *SLC Series 5 Carrier Fiber To The Home Feature, User's Manual*
- 363-205-003, *SLC-2000 Multi-Services Distant Terminal Feature, Applications, Planning, and Ordering Guide*
- 363-206-100, *DDM-1000 Multiplexer User's Manual*
- 363-206-200, *DDM-2000 Network Multiplexer, Applications and Planning Guide*
- 363-208-000, *SLC-2000 Access System, Applications and Planning Guide*
- 363-208-001, *SLC-2000 Access System, User/Service Manual*
- 626-100-006, *CD and DD Series of MUP (Multiunit Pulp) Cable, Description, Use, and Maintenance*
- 626-101-005, *Air Core PIC and DEPIC Cables, Nonscreened and Screened, Description, Use, and Reel Lengths*
- 626-101-010, *Waterproof Nonscreened and Screened Plastic, Insulated Cables, Description, Use, and Reel Lengths*
- 626-759-400, *Superseded Exchange Cables*
- 626-800-095, *Screened Air Core and Waterproof Plastic - Insulation Conductor Cable, Description, Use, and Reel Lengths NS/LA (Nonstandard/Limited Availability)*
- 631-400-102, *Cable and Terminal Grounding in Subscriber Building, General Description*
- 640-010-005, *Splicing T Carrier Cables, General Description*
- 640-250-206, *478-Type Apparatus Case, Description, Installation, and Maintenance*

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SLC Series 5 System Documentation (Continued)

**Related
documentation
(continued)**

- 640-250-221, *Remote Power Feed Terminal (RPFT), Installation and Wiring of Shelves*
- 640-525-108, *475F2, 475G2, and 475G2F Apparatus Cases, Description and Installation*
- 640-525-220, *Pair Loss Measurements Using 113A and/or 113B Test Sets, Digital Transmission Systems*
- 640-525-304, *T1 and T1/OS Carrier 46806 Apparatus Case, Description and Maintenance*
- 640-525-307, *818- /819-Type Repeater Cases, Description, Installation, Splicing, and Maintenance*
- 640-525-308, *809-Type Repeater Cases, Description, Installation, Splicing, and Maintenance*
- 640-525-309, *841B or 841C Type Repeater Cases, Description, Installation, Splicing, and Equipping*
- 640-525-315, *T1, T1C and T1/OS Apparatus Cases and Associated Plug-in Equipment*
- 640-527-220, *J98725AA Test Set Pair Loss Measurements*
- 640-527-225, *J98725AB Test Set, Bipolar Violation Detector for T1, T1C, or T1 Outstate*
- 662-400-500, *Testing Customer Lines, Operation and Test Procedures*
- 662-505-507, *Test Desk Procedures*
- 801-438-150, *J98710 Specifications, T1 Carrier Repeated Line Equipment*
- 801-440-001, *J1C142 Specifications, Pair Gain Test Controller*
- 801-523-150, *T1 Carrier, System Requirements and Repeater Bay Equipment*
- 801-523-153, *T1C Carrier, System Requirements and Repeater Bay Equipment*
- 855-350-104, *T1, T1 Outstate, and T1C and T1D Fault Locate System Engineering Design, Digital Transmission System Carrier Engineering Application*
- 855-350-106, *DSX-1 and DSX-1C Retrofit*

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SLC Series 5 System Documentation (Continued)

Related documentation (continued)

- 855-350-107, *T1, T1 Outstate, T1C, T1D, and T2 Order-Wire System Engineering Design*
 - 855-351-101, *Transmission and Outside Plant Design Procedures, T1 Digital Line Carrier Engineering System Application*
 - 902-200-110, *Digital Line Design and Pair Selection Rules, Subscriber Carrier Systems*
 - 902-200-115, *Digital Line Engineering Program (DILEP)*
 - 915-710-110, *SLC 96 Carrier System Application Engineering, Facility Design Systems*
 - 919-240-302, *16-Foot Controlled Environment Vault Engineering Considerations*
-

Bell communications research (Bellcore) documents

- Bellcore Technical Reference TR-TSY-000008 Issue 2, August 1987, *Digital Interface Between the SLC 96 Digital Loop Carrier System and a Local Digital Switch*
 - Bellcore Technical Reference TR-TSY-000057 Issue 1, April 1987, *Functional Criteria for Digital Loop Carrier Systems*
 - Bellcore Technical Reference TR-TSY-000303 Issue 1, September 1986, and all Revisions and Supplements, *Integrated Digital Loop Carrier System Generic Requirements, Objectives, and Interface.*
 - BR-680-203-023, *Assignment Procedures for the Series 5 Carrier System*
 - BR-902-200-120, *Outside Plant Engineering, Digital Line Engineering Program II (DILEP II)*
-

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Overview

Preface

Introduction

This chapter provides a concise general description of the *SLC*[®] Series 5 Carrier System and its service configurations. Lucent Technologies supports this product line with a wide variety of documentation. For more information, including how to order documents, use the information in the preface entitled "About This Document". This chapter is divided into the following four subsections:

- "System Overview"
 - "System Configurations"
 - "Centralized Operations and Provisioning"
 - "*UL** Recognized Equipment".
-

* Registered trademark of Underwriters Laboratories, Inc.

System Overview

Composition of a SLC Series 5 System

Abbreviated system description

The SLC Series 5 Carrier System is a full-service digital loop carrier system designed to support residential and business markets. Each Series 5 system (one half of a dual channel bank) provides 96 channels of service. Protection line switching is optional with all Series 5 system applications except the integrated network access-remote terminal (INA-RT) application. A standard T1 digital line facility is normally used for transmission. The system may be multiplexed to a higher digital rate using a DDM-1000, DDM-2000, or equivalent multiplexer and transmitted over lightguide facilities.

COT and RT configurations

The Series 5 dual channel bank (DCB) is offered in both central office terminal (COT) and remote terminal (RT) configurations. Each Series 5 DCB provides 192 channels of service (twice that of a SLC 96 Carrier System bank) in the same physical space as a SLC 96 Carrier System bank. The two 96-line systems in a Series 5 DCB are split across five plug-in shelves. The facilities shelf (middle shelf) separates the white system (*upper* two shelves) from the blue system (*lower* two shelves). The facilities shelf contains only common circuit packs. Common circuit packs are also installed in the end slots of each system (white and blue).

Each 96-line system in a Series 5 DCB is divided into four digroups of 24 channels each. The following table provides the channel assignments for each system:

Digroup	Channels
A	1-24
B	25-48
C	49-72
D	73-96

(Continued on next page)

Composition of a SLC Series 5 System (Continued)

Plug-in circuit packs

Plug-in circuit packs are divided into two groups called *common* circuit packs and *channel unit* circuit packs. The common circuit packs serve a common digroup and/or system. The channel unit (CU) circuit packs provide either one or two channels of service, depending on the specific channel unit code used. There are 12 channel plug-in slots per digroup for a total of 48 channel slots in each system (2 systems per dual bank assembly).

Location and powering

The COT installation is normally powered by the central office power plant. The RT installation may be powered by a *bulk*-type power plant or by *AC distributed power* consisting of a small AC-DC converter and an associated battery string located in each RT bay or cabinet. The COT equipment is normally installed in a standard bay framework. The RT equipment may be installed in a telephone office or on customer premises using standard bay framework or in any one of the various remote structure arrangements available.

Maintenance equipment

Circuit maintenance equipment for testing a Series 5 system include the pair gain test controller (PGTC), extended test controller (XTC), and craft interface unit (CIU). These units, along with other test equipment, are covered in other chapters of this document.

System Configurations

Configuration Definition

Introduction

The Series 5 carrier system is available in several configurations or levels of service. Each configuration is referred to as a specific Feature Package *or* is identified by a specific service related name. Each configuration supports a different set of channel unit and/or system capabilities. Different transmission and system maintenance arrangements may also be required. The service configuration of a Series 5 system is generally determined by the type or vintage of common circuit pack codes inserted in the dual channel bank assembly at the COT and/or RT. For a more detailed technical description of enhancements available for Feature Packages B and C, see Documents 363-099-111TD and 363-205-010.

Analog Line to Integrated SLC Carrier at 5ESS[®] Switch Cut (ALIC5)

ALIC5 benefits

ALIC5 is a new capability provided by *SLC Series 5 Carrier System* and the *5ESS* switch digital carrier line unit (DCLU) or integrated digital carrier unit (IDCU). This enables the rehabilitation of copper plant on an analog switch through a direct conversion to integrated digital loop carrier (DLC), simultaneously with the *5ESS* switch cutover. Up to now, such copper rehabilitation was possible only through costly multistep processes. The process required the installation of either a central office terminal (COT) on the analog switch or, alternatively, an analog line unit on the digital switch and then cutting to integrated DLC on the digital switch. ALIC5 provides the technical feasibility for accomplishing such rehabilitation in a single step. The process involves a new type of channel unit (AUA179) that can be commanded from the *5ESS* switch to become electrically nonintrusive to a circuit connected to its tip/ring leads. This allows the new *5ESS* switch to be connected to all the circuits that are to be cut over without degrading the transmission quality of the working circuit prior to the cut. Then, during times of low traffic, the various DLC circuits are temporarily revitalized in order to perform office-to-office testing to prepare for the cutover. The RT location is chosen so that the metallic extension onto the customer premises equipment (CPE) is within normal DLC design limits. But in some cases, the range limit must be restricted to compensate for the effect, following the cut, of the connection back to the analog switch (thus allowing the cross-connects to be removed at the telephone company's convenience). The full range can be retained if a bridge lifter is used at the connection point to disconnect the portion of the loopback to the analog switch upon cutover or if the cutover procedure includes an immediate manual disconnection of the bridged tap. (See Document 915-710-115, *SLC Series 5 Carrier System, Application Engineering*, Appendix 1, for guidelines on the design of circuits that are part of an ALIC5 cutover process.)

Feature Package 303 (FP303)

FP303 description The FP303 RT consists of a maximum of four primary DS1 interfaces, which can be connected to either *5ESS* digital switch, *GTD-5* switch, or *DSM-100* switch. The first and third DS1s (digroups A and C) carry the active and standby embedded operations channel (EOC) and the time slot management channel (TMC). The current C- and D-type line interface units (LIUs) are required to support the feature set. Feature Package 303 interworks with the *5ESS* switch, using the 5E10 generic, FP303 interworks with *GTD-5* SVR1731 without the ISDN feature, and FP303 interworks with the *DMS-100* switch, using NA004 software.

FP303 key capabilities

The TR-303 implemented into FP303 provides the following key capabilities:

- Hybrid signaling — *(using the TMC and robbed bit signaling) for locally switched voice-frequency (VF) circuits*
 - Embedded operations channel — *using ASN.1 messages (CMIP-91)*
 - Full access time slot assignment — *capable of handling up to 96 VF and integrated services digital network (ISDN) customers served over 2, 3, or 4 DS1 facilities*
 - TMC and EOC path switching
 - 4 kb/s extended superframe new data link (ESF/ndl)
 - 4:1 time division multiplexing (TDM) for ISDN basic rate access
 - Digital subscriber line (DSL) overhead transport
 - Channel testing and drop access
 - Optional DS1 facility protection switching (only supported on *5ESS* switch)
 - B8ZS clear channel capability
 - Alarm event reports
 - Retrieval of DS1 performance monitoring counts
 - DS1 facility loopbacks.
-

Services supported by FP303

FP303 supports the following services:

- Single party (POTS)
 - Multiparty (superimposed ringing)
-

(Continued on next page)

Feature Package 303 (FP303) (Continued)

Services supported by FP303 (continued)

- Multiparty [frequency selective ringing (FSR)]
 - SPOTS[®] channel units
 - Direct inward dialing (DID) (loop reverse battery)
 - Coin (coin-first and dial-tone-first)
 - ISDN U-interface digital subscriber line (U-DSL) basic rate interface with four D channels to one DS0 multiplexing.
-

Cost-effective ISDN

The FP303 RT provides a cost-effective ISDN that allows a full bank of dual-circuit ISDN 2B+D channel units (without the placement restrictions of previous ISDN units). To achieve this, the active B channels are assigned DS0 time slots on a per-call basis, and the 16 kb/s D channels are multiplexed into 4 channels per DS0 time slot.

POTS channel concentration

With FP303, a full-access time slot interchange (TSI) provides variable concentration for 96 (POTS) channels onto 4, 3, or 2 DS1s, resulting in feeder and switch termination cost savings.

Circuit packs supported by FP303

Refer to Chapter 5, "Remote Terminal Circuit Packs," for the actual channel unit, channel bank, and common unit codes supported. If a specific minimum series number is recommended, it is listed; otherwise, all series numbers are supported.

Nonswitched and nonlocally switched special services are not supported by the FP303 RT. Craft interface unit (CIU) provisioning or access to special services channel units is not supported. If a specific minimum series number is recommended, it is listed; otherwise, all series numbers are supported.

Switch integration with FP303

The FP303 RT is intended to integrate into the *5ESS* IDCU switch, *GTD-5* switch, and *DMS-100* switch.

Inter-mixing of feature packages in a DCB

It is possible to intermix the FP303 system in one half of a dual channel bank with a Feature Package A (FPA), Feature Package B (FPB), Feature Package C (FPC), or Feature Package D (FPD) system in the other half. An FP303 system cannot be inter-mixed in the same DCB with a Fiber in the Loop (FITL) or Feature Package I (FPI) system.

Feature Package A (FPA)^{DA}

FPA description

Feature Package A (FPA) was the first Series 5 service arrangement to be offered in the universal configuration. This arrangement utilized a standard Series 5 dual channel bank assembly at both the COT and RT. Feature Package A is no longer available and has been replaced by Feature Package C (FPC).

Services supported by FPA

FPA was used to supported the following services:

- Single-party service (POTS CUs)
 - Single-party service (POTS with *VerSuS*^{*} alarm transport service)
 - 2-wire locally-switched special services (*SPOTS*[®]CUs and *M SPOTS* CUs)
 - Coin
 - Direct inward dialing (DID) (2-wire locally switched special services)
 - Multiparty
 - Frequency selective ringing (FSR).
-

* Registered trademark of Versus Technology, Inc.

Feature Package B (FPB)

FPB description Feature Package B (FPB) is a full-service RT configuration designed to interface with a *SLC 96* Carrier System COT or any digital switch that complies with the TR-08[†] interface. As initially deployed, FPB supported all of the services of FPA except POTS with *VerSuS* alarm transport service.

FPB firmware releases Various names have been used to refer to the firmware releases for FPB. The initial firmware release (MC97724A1), sometimes referred to as *plain B* or *vanilla B*, has been superseded by firmware releases MC97771A1 (rated DA), MC9776A1 (rated DA), and most recently by release MC97776A1B. These releases (MC97771A1, MC9776A1, and MC97776A1B) are commonly referred to as *enhanced FPB*. Enhanced FPB supports all of the original services of FPB, allows craft interface unit (CIU) access at the RT for provisioning and testing of special service channel units, and is compatible with other digital switches using the TR-08 interface (for example, the *DMS*[†]100 switch).

(Continued on next page)

* Bellcore Technical Reference TR-TSY-000008 Issue 2, August 1987, *Digital Interface Between the SLC 96 Digital Loop Carrier System and a Local Digital Switch*.

† Registered trademark of Northern Telecom.

Feature Package B (FPB) (Continued)

FPB system configurations, options, and abbreviations

A complete list of FPB system configurations, options, and abbreviations is given in the following table. For more information refer to Document 363-205-010, *SLC Series 5 Carrier System, Applications and Planning Guide*.

System Configuration and Options	Abbreviation
FPB - Universal Mode 1	FPB/U/M1
FPB - Universal Mode 2	FPB/U/M2
FPB - Integrated Mode 1	FPB/I/M1
FPB - Integrated Mode 2	FPB/I/M2
FPB with Special Services Option - Universal Mode 1	FPB/SS/U/M1
FPB with Special Services Option - Universal Mode 2	FPB/SS/U/M2
FPB with Special Services Option - Integrated Mode 1	FPB/SS/I/M1
FPB with Special Services Option - Integrated Mode 2	FPB/SS/I/M2

FPB/U/M1

This configuration supports the following services:

- Single-party service (POTS CUs)
 - 2-wire locally-switched special services (*SPOTS* CUs and *M SPOTS* CUs)
 - Coin
 - DID
 - FSR
 - Fiber to the home (FTTH).
-

(Continued on next page)

Feature Package B (FPB) (Continued)

FPB system configurations, options, and abbreviations (continued)

FPB/SS/U/M1

This configuration supports all services of FPB/U/M1 plus the following services:

- Private line manual ringdown [dual ringing repeater (DRR)]
 - Private line auto ring (PLAR)
 - 2-wire, nonlocally-switched special services (E *SPOTS* CUs)
 - 4-wire voice frequency (VF) special services
 - Digital Data System (DDS) services.
-

FPB/U/M2

This configuration supports the following services:

- Single-party telephone service (POTS CUs)
 - 2-wire, locally-switched special services (*SPOTS* CUs and M *SPOTS* CUs)
 - Coin
 - Multiparty
 - FSR
 - FTTH (POTS).
-

FPB/SS/U/M2

This configuration supports all functions of FPB/U/M2 plus the following services:

- Private line manual ringdown (DRR)
 - Private line auto ring (PLAR)
 - 2-wire, nonlocally-switched special services (E *SPOTS* CUs)
 - 4-wire VF special services
 - DDS services.
-

(Continued on next page)

Feature Package B (FPB) (Continued)

FPB system configurations, options, and abbreviations (continued)

FPB/I/M1

This configuration supports the following services:

- Single-party telephone service (POTS CUs)
 - 2-wire, locally-switched special service (*SPOTS* CUs and *M SPOTS* CUs)
 - Coin
 - Multiparty
 - DID (*5ESS*[®] switch 5E6 generic)
 - FTTH (POTS).
-

FPB/SS/I/M1

This configuration supports all of the services of FPB/I/M1 plus the following services:

- Private line manual ringdown (DRR)
 - Private line auto ring (PLAR)
 - 2-wire, nonlocally-switched special services (*E SPOTS* CUs)
 - 4-wire VF special services.
-

FPB/I/M2

This arrangement supports the following services:

- Single-party telephone service (POTS CUs)
 - Coin
 - Multiparty
 - FSR
 - DID (*5ESS* switch 5E6 generic)
 - FTTH (POTS).
-

(Continued on next page)

Feature Package B (FPB) (Continued)

FPB system configurations, options, and abbreviations (continued)

FPB/SS/I/M2

This configuration supports all the services of FPB/I/M2 plus the following features:

- Private line manual ringdown (DRR)
 - Private line auto ring (PLAR)
 - 2-wire, nonlocally-switched special services (E *SPOTS* CUs)
 - 4-wire VF special services
 - DDS services (to be developed for a future generic of the *5ESS* switch).
-

Feature Package C (FPC)

FPC description Feature Package C is a universal arrangement designed to support a full range of services, special testing capabilities, and the AutoCut feature. The AutoCut feature allows a specially equipped FPC RT to be converted to an FPB/I/M1 RT configuration without sending personnel to the RT at the time of cutover.

Services supported by FPC

FPC supports the following services:

- Single-party telephone service (POTS CUs)
- *VerSuS* alarm transport service (POTS) with derived channel alarm
- 2-wire locally-switched special service (*SPOTS* CUs and *M SPOTS* CUs)
- Coin
- Multiparty
- DID
- FTTH (POTS)
- Private line manual ringdown (DRR)
- Private line auto ring (PLAR)
- 2-wire, nonlocally-switched special services (*E SPOTS* CUs)
- 4-wire VF special services
- DDS services.

The AutoCut feature for FPC also allows conversions from an FPB/I/M1 RT to an FPC RT. Procedures for cutover are given in Document 363-200-005, *Integrated SLC Carrier System, Recent Change (TOP)*.

Integrated Network Access-Remote Terminal (INA-RT)

INA-RT description

The integrated network access-remote terminal (INA-RT) is a remote terminal channel bank arranged to provide integrated network access based on a subset of D4 channel bank features. The INA-RT terminates at the COT on a D4 or D5 bank or on a digital cross-connect system (DCS) such as digital access and cross-connect system (DACCS) II or on a *SLC* 96 emulator. Channel units are provisioned at the RT with the CIU. The PGTC or XTC is not used for test access with an INA-RT because no data link exists with this arrangement.

INA-RT modes of operation

The INA-RT operates in Mode I (96-line system) or Mode III (48-line system) to maximize the transmission bandwidth and physical space. Mode I provides more efficient operation with dual channel units. Mode III provides facility savings, using single-channel units.

Services supported by INA-RT

The INA-RT supports the following services:

- DID
 - Integrated services digital network (ISDN)
 - Private line manual ringdown (DRR)
 - Private line auto ring (PLAR)
 - 2-wire, nonlocally-switched special services (E *SPOTS* CUs)
 - 4-wire VF special services
 - DDS services.
-

Mixed bank applications

The INA-RT is used in a mixed bank application. One half of a dual channel bank functions as INA-RT; the other half is arranged for FPB or FPC (See Document 363-205-010, *SLC Series 5 Carrier System, Applications and Planning Guide* for details.)

Feature Package D (FPD)

FPD description

A system arranged for Feature Package D (FPD) [often times referred to as low bit rate voice (LBRV)] uses only two digital lines instead of four digital lines per 96-line system. Channels derived from dual channel units are bit compressed 2 to 1. Channels derived from single-channel units (coin, dataport, FPD special service) are not compressed. The PGTC, XTC, and CIU testing capabilities are similar to FPC.

Bit compression is accomplished by a common circuit pack designated the transcoder unit (TCU) which is located electrically between the transmit/receive units (TRUs) of two digroups (A/B or C/D) and one line interface unit (LIU). Digroups converted to digital connectivity require that the opposite end has channel units installed in the digital connectivity unit (DCU) digroup. In addition, FPD requires the use of the J1C182AD-1, L() at the COT, and the J1C182AE-1,L() or J1C182AF-1, L() dual channel bank at the RT.

Dataport channel units (used to support Digital Data Services) provisioned for second channel error correction (SCEC) may not occupy the last channel unit slot of a digroup and must have the adjacent (next higher numbered) slot left empty.

Services supported by FPD

FPD supports the following services:

- Single-party telephone service (POTS CUs)
 - *VerSuS* alarm transport service (POTS) with derived channel alarm
 - 2-wire, locally-switched special service (*SPOTS* CUs and M *SPOTS* CUs)
 - Coin
 - Multiparty
 - DID
 - Private line manual ringdown (DRR)
 - Private line auto ring (PLAR)
 - 2-wire, nonlocally-switched special services (E *SPOTS* CUs)
 - 4-wire VF special services
 - DDS services.
-

Feature Package F (FPF)

FPF description

This feature package applies *only* to a Series 5 RT when the RT interfaces with a *SLC-2000* Multi-Services Distant Terminal (MSDT). For more information, refer to Chapter 5 of this document.

Administration

Centralized Operations and Provisioning

COP description The centralized operations and provisioning (COP) software allows a customer to provision and administer circuits in a *SLC* Series 5 Carrier System from a personal computer (PC). Access to the Series 5 carrier system is provided using the XTC. The connection between the PC and the XTC is made using either a 2-wire subscriber line, a private line, or a direct metallic connection. However, when a subscriber line is used, a security callback unit is desired to prevent unauthorized connections. When a direct metallic connection between the PC and the XTC is not provided, a relay rack mounted shelf is required near the XTC to mount a modem unit and all other associated XTC interface equipment and cabling.

COP requires a Series 5 FPC or FPD bank arrangement. The associated XTC must also be equipped with updated data link unit and controller unit circuit packs. For ordering specific COP related equipment and software, see Chapter 8 of this ordering guide. For a detailed description of the installation, test, and maintenance of COP, see Document 363-205-103.

***UL* Recognized Equipment**

***UL* Listed Series 5 RT**

***UL*
Listed/Recognized
RT equipment
codes**

The *SLC* Series 5 Carrier System RT is available in a *UL* Listed arrangement. This arrangement is designed to help customers comply with National Electric Code, state, and local code requirements. The *UL* Listed RT consists of an ED-8C500-50, G5 7-foot framework or 90A Business Remote Terminal cabinet equipped with any valid combination of *UL* Recognized Series 5 RT equipment. Nearly all RT equipment codes are *UL* Recognized, and Lucent Technologies plans to obtain *UL* Recognition for all new RT equipment it plans to produce in the future. The following equipment/apparatus codes and families of equipment/apparatus codes are *UL* Recognized:

- ED-8C500-50, G5 (7-foot bay framework)
- 90A Business Remote Terminal (BRT) (RT cabinet)
- J1C182AB-1, L1, AE-1, L(), and AF-1, L() (RT dual channel bank)
- J1C182BA-1, L3 power shelf
- J1C182BB-1, L1 power shelf
- J1C182BD-1, L power shelf
- ED-7C613-30, G2 and G3 load distribution units (used in the J1C182BA-1, L3)
- 181B apparatus mounting
- 2-type cooling fan units
- AUA-type RT circuit packs
- AUB-type RT circuit packs
- AUG-type RT circuit packs
- MC-type RT circuit packs
- 336A1 rectifier
- 337A1 battery charger
- 3C1 ringing generator
- 39E, 39F, and 40D fuse units
- IR-series batteries (when used in a 181B apparatus mounting only).

For installation information, refer to Document 363-205-011, Issue 2 (or later).

Central Office Terminal Frames and Associated Equipment

2

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Purpose

Overview

Introduction

This chapter provides ordering information for *SLC*[®]Series 5 Carrier System central office terminal (COT) frames. This chapter is divided into two subsections as follows:

- Prewired and Assembled COT Frames
 - Optional Equipment for COT Frames.
-

Prewired and Assembled COT Frames

Equipment Description and Ordering Codes

Introduction

SLC Series 5 Carrier System COT frames are factory assembled and completely prewired. When installed and connected to central office power and wiring, the frames are ready to accept Series 5 plug-in circuit packs. The COT frames and optional equipment may be ordered by J-specification number, comcode number, or *COMMON LANGUAGE** *CLEI* code number. Plug-in circuit packs are not provided as part of a prewired COT frame and must be ordered separately. See Chapter 4, "Remote Terminal Frame and Associated Equipment," of this document for ordering the associated plug-in equipment.

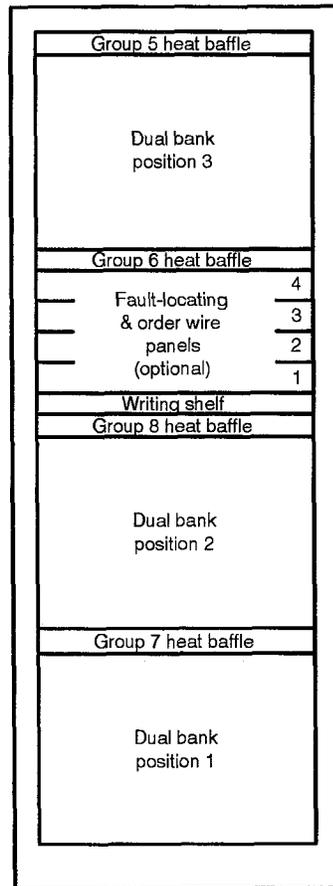
Fault locate and/or order wire (FL & OW) panels and writing shelves may be installed in any size COT frame. These items are considered optional equipment and should be ordered as required. (See section entitled "Optional Equipment for COT Frames" located in this chapter.) The following figure illustrates a typical 7- and 9-foot frame arrangement

(Continued on next page)

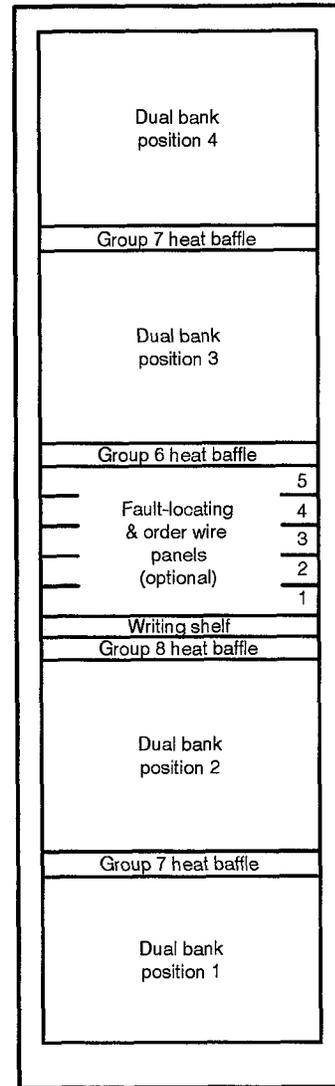
* *COMMON LANGUAGE* is a registered trademark and *CLEI*, *CLLI*, *CLCI*, and *CLFI* are trademarks of Bell Communications Research, Inc.

Equipment Description and Ordering Codes (Continued)

Introduction (continued)



J1C182F-1, L1 7'-0"



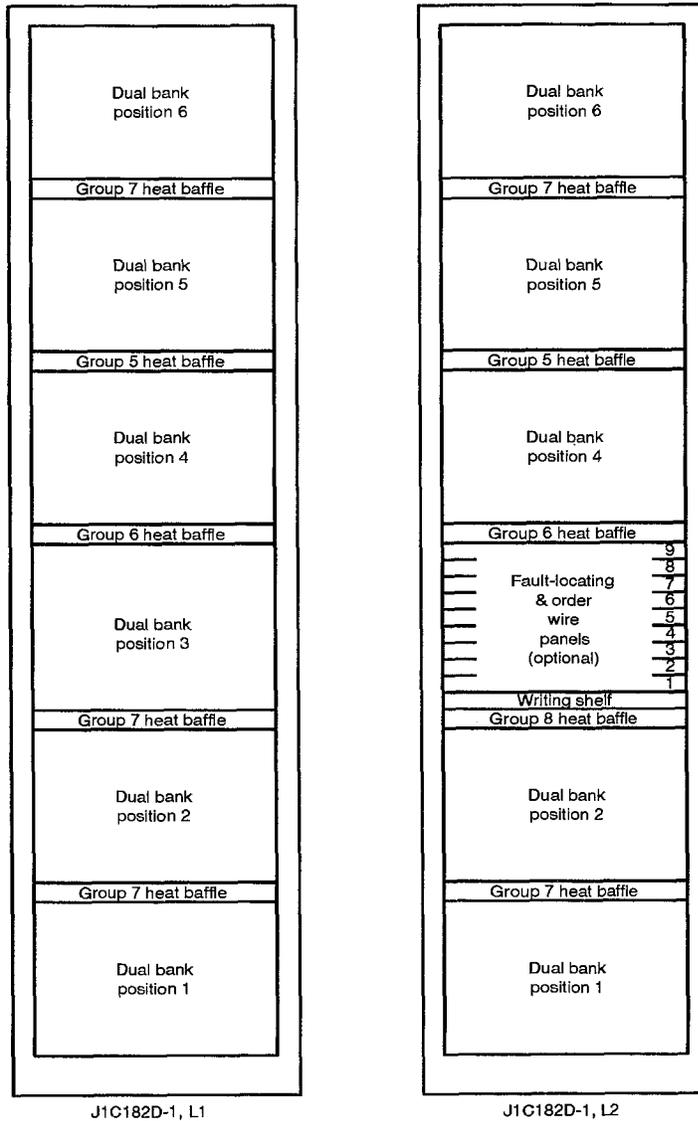
J1C182E-1, L1 9'-0"

(Continued on next page)

Equipment Description and Ordering Codes (Continued)

Introduction (continued)

The following figure illustrates a typical 11-foot 6-inch frame arrangement.



This section contains an alphanumeric listing of the equipment codes required to order *SLC* Series 5 Carrier System COT frames. Unless otherwise specified, each item in this section has a rating of general availability.

(Continued on next page)

Equipment Description and Ordering Codes (Continued)

J1C182A-1, L()^{DA} The frame is rated discontinued availability (DA) and is replaced by J1C182D-1, L().

J1C182B-1, L()^{DA} The frame is rated DA and is replaced by J1C182E-1, L().

J1C182C-1, L()^{DA} The frame is rated DA and is replaced by J1C182F-1, L().

J1C182D-1, L1 Order this assembly to receive an 11-foot 6-inch COT frame equipped with six J1C182AD-1 dual channel banks. This frame is **not** arranged to accept a writing shelf and/or FL & OW panels.
Comcode 601164833
CLEI code 5SBCA12

J1C182D-1, L2 Order this assembly to receive an 11-foot 6-inch COT frame equipped with five J1C182AD-1 dual channel banks. This frame is arranged to accept a writing shelf and/or FL & OW panels.
Comcode 601164841
CLEI code 5SBCE12

J1C182D-1, L10 Order this assembly to receive an 11-foot 6-inch COT frame wired for 6 dual channel banks and equipped with one J1C182AD-1 dual channel bank. This frame is arranged to accept a writing shelf and/or FL & OW panels.
Comcode 601395726
CLEI code 5SBCL30A

J1C182E-1, L1 Order this assembly to receive a 9-foot COT frame equipped with four J1C182AD-1 dual channel banks. This frame is arranged to accept a writing shelf and/or FL & OW panels.
Comcode 601164858
CLEI code 5SBCC12

(Continued on next page)

Equipment Description and Ordering Codes (Continued)

J1C182E-1, L6 Order this assembly to receive a 9-foot COT frame wired for 4 dual channel banks and equipped with one J1C182AD-1 dual channel bank. This frame is arranged to accept a writing shelf and/or FL & OW panels.
Comcode 601395734
CLEI code 5SBCN30A

J1C182F-1, L1 Order this assembly to receive a 7-foot COT frame equipped with three J1C182AD-1 dual channel banks. This frame is arranged to accept a writing shelf and/or FL & OW panels.
Comcode 601164874
CLEI code 5SBCD12

J1C182F-1, L9 Order this assembly to receive a 7-foot COT frame wired for three dual channel banks and equipped with one J1C182AD-1 dual channel bank. This frame is arranged to accept a writing shelf and/or FL & OW panels.
Comcode 601395742
CLEI code 5SBCE30A

Optional Equipment for COT Frames

Equipment Description and Ordering Codes

Introduction

Most COT frames are arranged to accept FL & OW panels and a writing shelf. (Refer to previous COT frame arrangement figures for typical placement.) Each FL & OW panel must be equipped with proper plug-ins for proper operation.

This section contains an alphanumeric listing of optional equipment that is compatible with a prewired COT frame. Unless otherwise specified, each item in this section has a rating of General Availability.

ED-2C374- 31,G2,A^{DA}

Order this item to receive a fault locate control unit for a FL & OW panel (J1C141AC-1, L1, 2). One control unit is required for each FL & OW panel ordered.

Comcode 600423727
CLEI code T1FLC30

ED-3C355-70, G1

Order this item to receive a writing shelf. If a writing shelf is ordered, the maximum quantity per frame of FL & OW panels and associated plug-ins is reduced by one.

Comcode 600118285

ED-3C556-30, G3

Order this item to receive a telephone set and order wire unit for a FL & OW panel. (See the description of J1C141AC-1, L1, 2 for more ordering information.)

Comcode 600207989
CLEI code T10WH00B

(Continued on next page)

Equipment Description and Ordering Codes (Continued)

ED-3C557-30, G1 Order this item to receive a T1C digital line multiple printed wiring board (PWB) unit for a FL & OW panel. (See the description of J1C141AC-1, L1, 2 for more ordering information.)
Comcode 600433775
CLEI code T1OWC00B

ED-3C557-30, G2 Order this item to receive a T1C digital line bridging and coupling PWB unit for a FL & OW panel. (See the description of J1C141AC-1, L1, 2 for more ordering information.)
Comcode 600433791
CLEI code T1OWD00B

ED-7C603-30, G5 Order this item to receive a COT heat baffle equipped with one fuse. Since COT frames are manufactured fully equipped and prewired, additional heat baffles are normally required only for spare or replacement purposes.

ED-7C603-30, G6 Order this item to receive a COT heat baffle equipped with bay alarms. Since COT frames are manufactured fully equipped and prewired, additional heat baffles are normally required only for spare or replacement purposes.

ED-7C603-30, G7 Order this item to receive a COT heat baffle equipped with two fuses. Since COT frames are manufactured fully equipped and prewired, additional heat baffles are normally required only for spare or replacement purposes.

ED-7C603-30, G8 Order this item to receive a COT heat baffle equipped with five fuses. Since COT frames are manufactured fully equipped and prewired, additional heat baffles are normally required only for spare or replacement purposes.

(Continued on next page)

Equipment Description and Ordering Codes (Continued)

**Baffle cover
assembly**

Order this item to receive a baffle cover assembly for the ED-7C603-30, G8 heat baffle. The baffle cover is for COT frames where a writing shelf or FL & OW panel is not installed above the ED-7C603-30, G8 heat baffle.

Comcode 846154714

ED-7C700-20, G1

Order this item to receive a COT E&M lead applique cable. This 24-inch long cable is required to bring E, M, SB, and SG signal leads out from the COT backplane. The cable is equipped with a standard KS-21997, L1 connector (for connection to the CO cabling) and twelve 963P10-4 housings (for the required backplane connections).

Comcode 601245269

ED-8C506-50, G38

Order this assembly to receive brackets and screws needed to provide additional cabling area between bay assemblies arranged for normal duct spacing of 2 inches on each side of the bay. This assembly provides additional duct space for COTs using E&M applique cables. Refer to ED-7C606-11, Notes 53, 63, and 64 for additional information.

(Continued on next page)

Equipment Description and Ordering Codes (Continued)

J1C141AC-1, L1, 2 Order this item to receive one FL & OW panel. The maximum number of FL & OW panels varies with COT frame height. The following list of maximum quantities per frame assumes that no writing shelf is provided. If a writing shelf is needed, reduce the following maximum quantities by one FL & OW panel.

- 7-foot frame (J1C182F-1) 5 max.
- 9-foot frame (J1C182E-1) 6 max.
- 11-foot 6-inch frame (J1C182D-1) 10 max.

One fault locate control unit per ED-2C374-31, G2, A is required for each panel ordered. In addition, you must order one each of the following units per FL & OW panel:

- ED-3C556-30, G3 telephone set and order wire unit
- ED-3C557-30, G1 T1C digital line multiple PWB unit
- ED-3C557-30, G2 T1C digital line bridging and coupling PWB unit.

Comcode 600219075
CLEI code S9JP200B

J1C182AD-1, L1 Order this item to receive a COT dual channel bank. Since COT frames are manufactured fully equipped and prewired, additional dual channel banks are normally required only for spare or replacement purposes. The J1C182AD-1, L1 is fully backward compatible with the J1C182AA-1, L() DCB (rated DA).

Comcode 601232457
CLEI code 5SMCA22

Related Documentation

COT frames and optional equipment related documentation

The following table lists Lucent Technologies documentation where additional information may be found concerning COT frames and optional equipment. To order one or more of the following documents, refer to the "About This Document" section of this document.

Document	Title
363-205-010	<i>SLC® Series 5 Carrier System Applications and Planning Guide</i>
915-710-115	<i>SLC Series 5 Carrier System Application Engineering</i>
CIR 363-099-028TD	<i>SLC Series 5 Carrier System Technical Description</i>
FPD-801-450-106-1	<i>11-Foot 6-Inch, L1 COT Frame Floor Plan Data</i>
FPD-801-450-106-2	<i>11-Foot 6-Inch, L2 COT Frame Floor Plan Data</i>
FPD-801-450-106-3	<i>9-Foot COT Frame Floor Plan Data</i>
FPD-801-450-106-4	<i>7-Foot COT Frame Floor Plan Data</i>
J1C141AC-1	<i>Fault Locate/Order Wire Panels</i>
J1C182D-1	<i>11-Foot 6-Inch COT Bay Arranged for Low Bit Rate Voice (LBRV)</i>
J1C182E-1	<i>9-Foot COT Bay Arranged for LBRV</i>
J1C182F-1	<i>7-Foot COT Bay Arranged for LBRV</i>
J1C182AD-1	<i>COT Dual Channel Bank Arranged for LBRV</i>

(Continued on next page)

Related Documentation (Continued)

COT frames and
optional
equipment related
documentation
(continued)

Document	Title
T3C423-31	<i>Installation Wiring for Fault Locate and Order Wire Panel</i>
CD-3C423-01	<i>Fault Locate and Order Wire Panel Circuit Description</i>
CD-7C115-02	<i>COT Bank Circuit Description (AD-1)</i>
CD-7C116-02	<i>COT Bay Circuit Description (D-1, E-1, F-1)</i>
ED-2C374-31	<i>Fault Locate/Order Wire Panel</i>
ED-3C355-70	<i>Writing Shelf</i>
ED-3C556-30	<i>Telephone Set and Order Wire Unit</i>
ED-3C557-30	<i>T1C Digital Line Multiple and Bridging Coupling Unit</i>
ED-7C603-30	<i>COT Heat Baffle Assembly</i>
ED-7C606-11	<i>Method of Cabling for COT Bays</i>
ED-8C500-50	<i>Equipment Framework</i>
SD-3C423-01	<i>Fault Locate/Order Wire Panel Schematic Drawing</i>

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Central Office Terminal Circuit Packs

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Purpose

Overview

Introduction

This chapter provides ordering information for plug-in circuit packs used to equip a *SLC*[®] Series 5 Carrier System central office terminal (COT) dual channel bank (DCB) assembly for service.

A large variety of equipment codes, circuit pack codes, function codes, and service offerings are discussed in this chapter. Acronyms are used in this chapter to condense function codes, service offerings, and other commonly used terms. A complete list of acronyms is located in the glossary of this document.

This chapter is divided into four subsections as follows:

- “COT Common Circuit Packs”
 - “COT Channel Unit Circuit Packs”
 - “COT Digital Connectivity”
 - “COT Feature Package Conversion”.
-

COT Common Unit Circuit Packs

Overview

General

This subsection provides ordering information for common circuit packs needed to prepare a *SLC Series 5 Carrier System COT DCB* to accept channel units. New installations should be arranged for Feature Package C (FPC). Feature Package A (FPA) is rated discontinued availability (DA). Ordering of circuit packs compatible with FPA should be limited to additions and/or maintenance of existing systems. Information for Feature Package D (FPD) is included; however, ordering of circuit packs compatible with FPD should be limited to additions and/or maintenance of existing systems.

Central office terminal channel banks arranged for digital connectivity (formerly designated as FPC2) and central office terminals working into a remote terminal (RT) arranged for the fiber in the loop (FITL) feature [formally designated as fiber to the home (FTTH)], and Feature Package F (FPF) require FPC common circuit packs.

See Document 363-205-010, *SLC Series 5 Carrier System Applications and Planning Guide*, for a comprehensive description of *SLC Series 5 Carrier System* equipment, features, services, applications, and compatible interface equipment.

(Continued on next page)

Overview (Continued)

COT common plug-in unit requirements

The type and number of common plug-in circuit packs required for a particular feature package depends on the number of lines (or digroups) equipped. The following table describes the recommended digroup growth pattern for a Series 5 COT DCB.

Lines Equipped	Digroup Equipped	
	Blue System	White System
48	A, B	—
96	A, B, C, D	—
144	A, B, C, D	A, B
192	A, B, C, D	A, B, C, D

The following table provides quantities of common units required to equip a COT DCB for FPC.

(Continued on next page)

Overview (Continued)

COT common
 plug-in unit
 requirements
 (continued)

Order Wording	Description	Quantity Required per Lines Equipped				Comments
		48	96	144	192	
AUA1	TRU	1	2	3	4	
AUA3	OTU	1	1	2	2	Optional; required with dataport CUs
AUA11C	PCU	3	4	4	5	
AUA18	DTU-L	1	1	1	1	
AUA19	DTU-R	1	1	1	1	
AUA61D	LIU-ORB	3	5	8	10	Includes one unit per bank for protection line
AUA62D	LIU-PW	3	5	8	10	Includes one unit per bank for protection line
AUA64D	LIU-Loop	3	5	8	10	Includes one unit per bank for protection line (See unit description)
AUA73B	LSU	1	1	2	2	Optional; see unit description
AUA114	CFU	2	2	2	2	
AUA115	LFU	1	1	1	1	Optional; see unit description

(Continued on next page)

Overview (Continued)

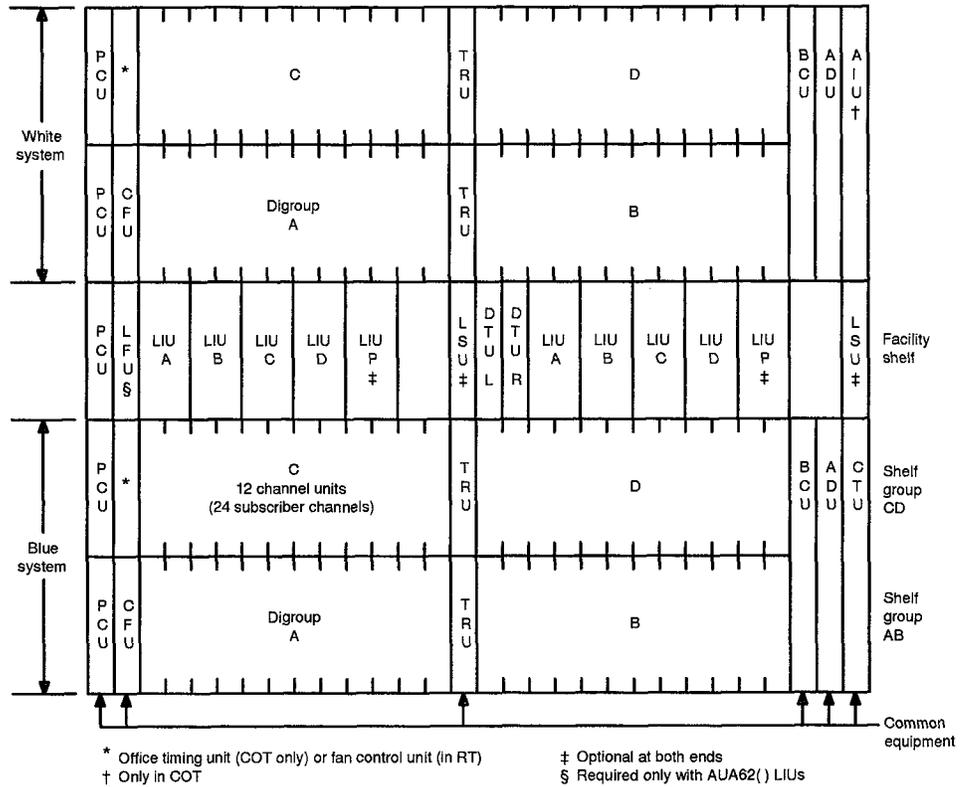
COT common
 plug-in unit
 requirements
 (continued)

Order Wording	Description	Quantity Required per Lines Equipped				Comments
		48	96	144	192	
AUB2B	CTU	1	1	1	1	Use for PGTC testing, or AUB5 for XTC testing
AUB3B	AIU	1	1	1	1	
AUB4	ADU-ASU	1	1	0	0	
AUB5	CTU	1	1	1	1	Use for XTC testing, or AUB2B for PGTC testing
AUB6	ADU	1	1	2	2	
MC97755A1	BCU	1	1	2	2	

Overview (Continued)

COT common plug-in unit requirements (continued)

The following figure illustrates the COT channel bank nomenclature and circuit pack placement.

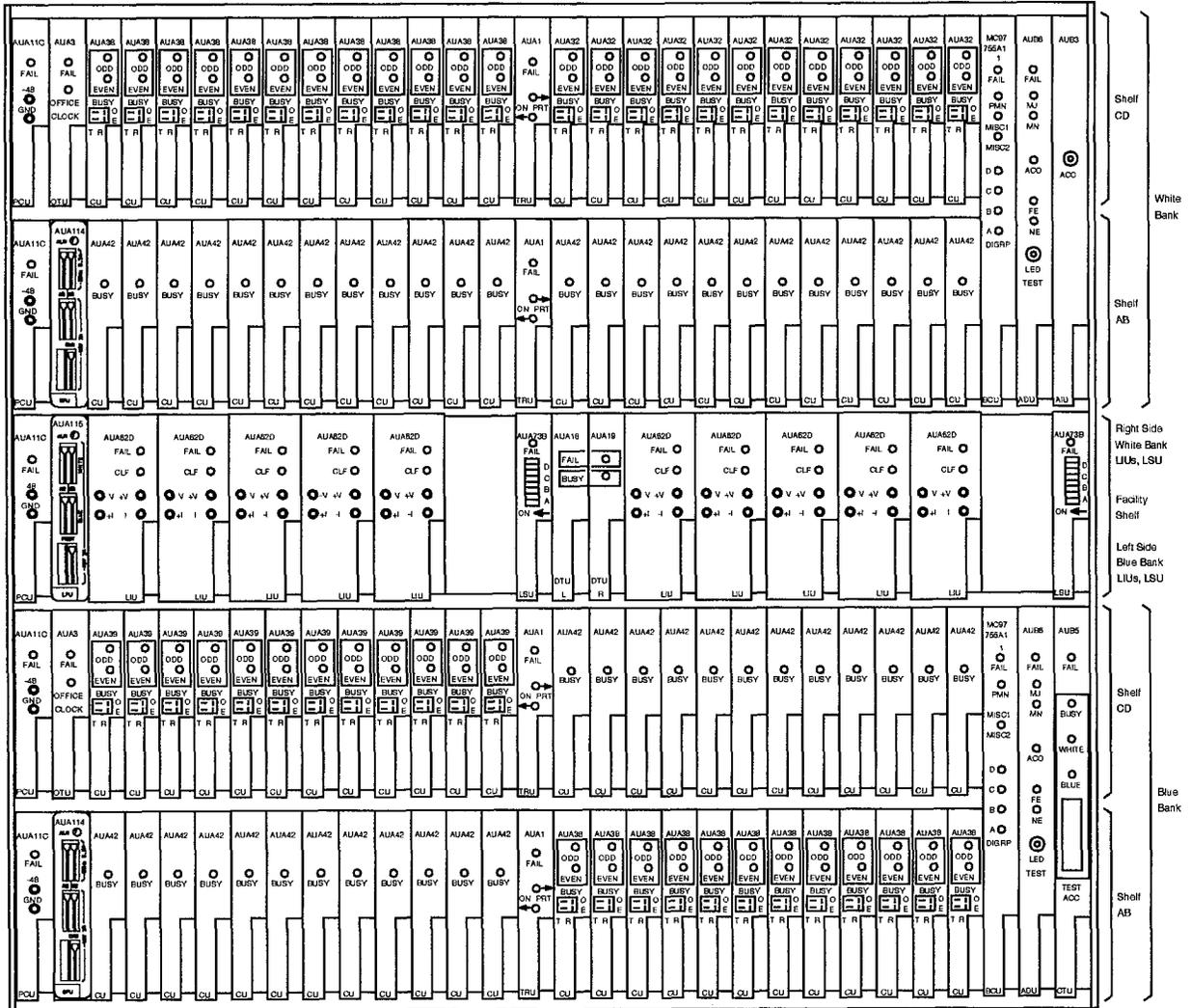


(Continued on next page)

Overview (Continued)

COT common
 plug-in unit
 requirements
 (continued)

The following figure illustrates a typical COT channel bank with a full compliment of circuit packs



COT Common Unit Descriptions and Specifications

Introduction



NOTE:

This section contains comcode and *COMMON LANGUAGE*^{*} *CLEI* code information, if available. If a discrepancy exists between a comcode or *COMMON LANGUAGE CLEI* code listed in this section and Appendix 1 entitled "Quick Reference Ordering Guide," use the information with the latest publication date.

This section does not include the following units that are considered *common* in a central office (CO) environment. See Chapter 11, "Turnup, Test, and Maintenance Equipment," for information on ordering the following units:

- AUA78 fault locating test adapter (FLTA)
- AUA80 line test adapter (LTA)
- 47B test adapter
- 52A test adapter
- 505A line loss measuring adapter.

List of common units and specifications

The following table provides a list of the common units along with a description, comcode, *COMMON LANGUAGE CLEI* code, feature package usage, quantity required per lines equipped, and data sheet number.

(Continued on next page)

* *COMMON LANGUAGE* is a registered trademark and *CLEI*, *CLLI*, *CLCI*, and *CLFI* are trademarks of Bell Communications Research, Inc.

COT Common Unit Descriptions and Specifications (Continued)

List of common unit descriptions and specifications (continued)

Code	Description	Comcode	COMMON LANGUAGE* CLEI Code	Feature Package	Quantity per Lines Equipped	Data Sheet
AUA1	Transmit/receive unit (TRU)	103840245	5SCS200AXX	A, C, D	1/48, 2/96, 3/144, 4/192	363-005-161
AUA3	Office timing unit (OTU)	103840468	5SCS604AXX	C, D	1/48, 2/96, 3/144, 4/192	363-005-202
AUA11C	Power converter unit (PCU)	105728042	5SCD4J2AAB	A, C, D	3/48, 4/96, 4/144, 5/192	363-005-204
AUA18	Digital test unit - left (DTU-L)	103840336	5SCDA00AXX	C, D	1/48, 1/96, 1/144, 1/192	363-005-206
AUA19	Digital test unit - right (DTU-R)	103840344	5SCDB00AAC	C, D	1/48, 1/96, 1/144, 1/192	363-005-207
AUA61D	Line interface unit (LIU)	105703946	5SLI1A4AAB	A, C	3/48, 5/96, 8/144, 10/192	363-005-150
				D	2/48, 3/96, 5/144, 6/192	
AUA62F	Line interface unit (LIU)			A, C	3/48, 5/96, 8/144, 10/192	363-005-151
				D	2/48, 3/96, 5/144, 6/192	
AUA64F	Line interface unit (LIU)			A, C	3/48, 5/96, 8/144, 10/192	363-005-152
				D	2/48, 3/96, 5/144, 6/192	

See footnote at end of table.

(Continued on next page)

COT Common Unit Descriptions and Specifications (Continued)

List of common unit descriptions and specifications (continued)

Code	Description	Comcode	COMMON LANGUAGE CLEI Code	Feature Package	Quantity per Lines Equipped	Data Sheet
AUA71	Transcoder unit (TCU)	103840922	5SLI280AXX	D	1/48, 2/96, 3/144, 4/192	363-005-164
AUA73B	Line switch unit (LSU)	105710271	5SCS159AXX	A, C, D	1/48, 1/96, 2/144, 2/192	363-005-165
AUA114	Channel fuse unit (CFU)	106018088	5SCB4B0CAA	A, C, D	2/48, 2/96, 2/144, 2/192	363-005-228
AUA115	Line fuse unit (LFU)	106018096	5SCB5B0CAA	A, C, D	1/48, 1/96, 1/144, 1/192	363-005-229
AUB2B	Channel test unit (CTU)	104375563	5SCD101BXX	A, C, D	1/48, 1/96, 1/144, 1/192	363-005-198
AUB3B	Alarm interface unit (AIU)	106430127	5SCD30FBAB	A, C, D	1/48, 1/96, 1/144, 1/192	363-005-197
AUB4B	Alarm suppressor unit (ASU)	103841284	5SCSC00BXX	A, C, D	1/48, 1/96, 0/144, 1/192	363-005-189
AUB5	Channel test unit (CTU)	103841292	5SCD110BXX	A, C, D	1/48, 1/96, 1/144, 1/192	363-005-200
AUB6	Alarm display unit (ADU)	103841300	5SCS900BXX	A, C, D	1/48, 1/96, 2/144, 2/192	363-005-186
MC97755A1	Bank control unit (BCU)	105517510	5SCSF67CXX	A, C, D	1/48, 1/96, 2/144, 2/192	363-005-180
* COMMON LANGUAGE is a registered trademark and CLEI, CLLI, CLCI, and CLFI are trademarks of Bell Communications Research, Inc.						

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COT Common Unit Descriptions and Specifications (Continued)

List of common unit descriptions

This section contains an alphanumeric listing and description of the common circuit packs required for preparing a *SLC* Series 5 Carrier System COT to accept channel units.

AUA1

The AUA1 provides the interface and synchronization for two digroups of channel units (A/B or C/D shelf), the digital facility interface (LIUs or TCU), and the LSU.

AUA3

The AUA3 provides an interface to an external source of synchronization for data transmission applications. The AUA3 converts a nationally synchronized composite office clock to its component 8- and 64-kHz clocks. The AUA3 is an optional COT unit and is only required when dataport channel units are present in the DCB.

AUA11C

The AUA11C is used in the digroup and facility shelves of the COT. This unit is used at the RT and optical power shelf (for FTTH applications). The AUA11C replaces the AUA11 and AUA11B (rated DA) and is fully backward compatible with the previously manufactured units.

AUA18

The AUA18 provides digital test access to special service channel units using the XTC and/or CIU. The AUA18 is permanently installed in the COT DCB for FPC or FPD. If digital test access is *not* required (all POTS system), the AUA18 may be omitted.

AUA19

The AUA19 provides digital test access to special service channel units using the XTC and/or CIU. The AUA19 is permanently installed in the COT DCB for FPC or FPD. If digital test access is *not* required (all POTS system), the AUA19 may be omitted.

AUA61D

The AUA61D (DS1) LIU is used at the COT (or RT) to provide the interface between a Series 5 system and the DSX-1 cross-connect. The AUA61D replaces all AUA61, AUA61B, and AUA61C LIUs.

(Continued on next page)

COT Common Unit Descriptions and Specifications (Continued)

List of common unit descriptions (continued)

AUA62F

The AUA62F (line powering) LIU is used at the COT (or RT) to provide a direct interface between the Series 5 system and a T1 line. The AUA62F provides line power to T1 repeaters connecting the COT and RT. The AUA62F replaces all AUA62, AUA62B, AUA62C, and AUA62D LIUs.

AUA64F

The AUA64F (power looping) LIU is used at the COT (or RT) to provide a direct interface for the Series 5 system and a T1 line. The AUA64F is typically used at the RT to loop received line powering current back to the COT. The AUA64F can be used at the COT if needed in a particular installation. The AUA64D replaces all AUA64, AUA64B, AUA64C, and AUA64D LIUs.

AUA71

The AUA71 is used to provide LBRV treatment of two single digroup pulse code modulation signals, serving up to 48 voice frequency circuits on a single DS1 line. The AUA71 is placed in the facility shelf in position LIU-B and/or LIU-D (blue or white system), as required.

AUA73B

The AUA73B provides an automatic protection switching feature for the DS1 line interface units (with or without LBRV option). The AUA73B is an optional unit and is required only for each white or blue system equipped with a protection LIU.

AUA114

The AUA114 provides 20-Hz ringing protection and -48 V DC protection to the A/B and C/D channel unit digroups. The AUA114 also provides -48 V DC protection to the common units in each channel bank. The AUA114 replaces the 39E CFU. The AUA114 contains 5 replaceable WP90247-type indicator fuses. (See the section entitled "Common Unit Miscellaneous Equipment" for information on replacement and spare fuses.)

(Continued on next page)

COT Common Unit Descriptions and Specifications (Continued)

List of common unit descriptions (continued)

AUA115

The AUA115 provides -48 V DC protection for LIUs corresponding to channel unit digroups A/B and C/D (white), A/B and C/D (blue), and to protection LIUs. The AUA115 contains 5 replaceable WP90247-type indicator fuses. The AUA115 replaces the 39F LFU. (See the section entitled "Common Unit Miscellaneous Equipment" for information on replacement and spare fuses.)

AUB2B

The AUB2B functions with the pair gain test controller (PGTC), COT BCU, and RT CTU to allow the remote test center metallic access to the customer drop and the derived channel between the COT and RT. If the extended test controller (XTC) is used instead of the PGTC, only PGTC type tests are performed. Actual digital test access is provided by the DTU. One CTU (AUB2B or AUB5) is required per DCB.

AUB3B

The AUB3B provides the interface between the dual 96-line bank module in which it is located and the central office and remote alarm reporting systems. The AUB3B accepts inputs from the COT ADU and the COT BCU in both blue and white systems.

AUB4

The AUB4 is required to suppress alarms generated by the white system when only the blue bank is being equipped for service. The AUB4 is used in the ADU position of the nonequipped (white) bank. *If the DCB is being equipped for 96 lines (4 digroups) using A/B blue and A/B white only, the AUB4 is not required.*

AUB5

The AUB5 provides the external interface (either to the CIU or XTC) for digital test access on channel units in both banks of a DCB. The AUB5 supports simultaneous XTC testing of channel units on one system while performing CIU testing on the other system. One CTU (AUB5 or AUB2B) is required per DCB.

(Continued on next page)

COT Common Unit Descriptions and Specifications (Continued)

List of common unit descriptions (continued)

AUB6

The AUB6 and the BCU provide internal performance monitoring, T1 line protection, remote inventory and channel unit provisioning (when using the operations interface), craft inputs for settings, alarm cutoff, bank identification, and per-line demand testing using the PGTC.

MC97755A1

The MC97755A1 and a compatible ADU form what is commonly referred to as the bank controller for a Series 5 96-line system. The bank controller provides the following:

- internal performance monitoring and fault diagnosis
 - central office and remote alarm outputs
 - craft inputs for options and alarm cut-off
 - per line demand testing using the XTC or PGTC
 - T1 protection switching.
-

COT Common Unit Miscellaneous Equipment

Introduction This section lists miscellaneous equipment which is needed to maintain and protect Series 5 common circuit packs.

**Guardian circuit
pack carrying cases**



NOTE:

The Guardian carrying case has also been designed for other equipment families such as the DDM-1000/2000 multiplexers and SLC 96 Carrier Systems. If you need additional information or drawings, contact your local Lucent Technologies Account Executive.

Order this set of two custom-made carrying cases to protect your spare Series 5 circuit packs (common and channel units). This rugged set of cases has "faceplate up" storage, card guides, internal padding, and a schematic to keep needed spares well organized and fully protected. The Guardian comes complete with a ground cord, wrist strap, and a grounded working surface.

Comcode 406349795

CLEI code 5SPQ00A1AA

WP-90247, L()



NOTE:

Orders for replacement and spare fuses or a fuse tool per WP-90247, L() may be made by telephone, mail, or fax. To purchase directly, contact:

SAN-O Industrial Corporation

91-3 Colin Drive

Holbrook, NY 11741

Telephone No. 516-472-6666

Fax No. 516-472-6777

WP-90247, L103 Fuse

Order this assembly to provide a package of 5 fuses (0.5 amp) for the AUA114 CFU. Two WP-90247, L103 fuses are required per CFU.

Comcode 406203182

(Continued on next page)

COT Common Unit Miscellaneous Equipment (Continued)

WP-90247, L()
(continued)

WP-90247, L110 Fuse

Order this assembly to provide a package of 5 fuses (3.0 amp) for the AUA114 CFU or AUA115 LFU. Three WP-90247, L110 fuses are required per CFU. Five WP-90247, L110 fuses are required per AUA115 LFU.

Comcode 406204230

WP-90247, L201 Tool

Order this item to receive an insertion/extraction tool for WP-90247, L() fuses.

Comcode 406420273

80C

Order this fuse for maintenance of existing 39E CFU (rated DA) or 39F LFU (rated DA) circuit packs. This kit contains four 3.0 amp fuses.

Comcode 845047455

80G

Order this fuse kit for maintenance of existing 39E CFU (rated DA) circuit packs. This kit contains three 0.5 amp fuses.

Comcode 845047448

Related Documentation

**COT common unit
related
documentation**

The following table lists Lucent Technologies documentation where additional information may be found concerning COT common circuit packs. To order one or more of the following documents, refer to the "About This Document" section of this document.

Document	Title
363-005-150	<i>Data Sheet AUA61D Circuit Pack</i>
363-005-151	<i>Data Sheet AUA62D Circuit Pack</i>
363-005-161	<i>Data Sheet AUA1 Circuit Pack</i>
363-005-164	<i>Data Sheet AUA71 Circuit Pack</i>
363-005-165	<i>Data Sheet AUA73B Circuit Pack</i>
363-005-180	<i>Data Sheet MC97755A1 Circuit Pack</i>
363-005-186	<i>Data Sheet AUB6 Circuit Pack</i>
363-005-189	<i>Data Sheet AUB4 Circuit Pack</i>
363-005-197	<i>Data Sheet AUB3B Circuit Pack</i>
363-005-198	<i>Data Sheet AUB2B Circuit Pack</i>
363-005-200	<i>Data Sheet AUB5 Circuit Pack</i>
363-005-202	<i>Data Sheet AUA3 Circuit Pack</i>
363-005-204	<i>Data Sheet AUA11D Circuit Pack</i>
363-005-206	<i>Data Sheet AUA18 Circuit Pack</i>
363-005-207	<i>Data Sheet AUA19 Circuit Pack</i>
363-005-228	<i>Data Sheet AUA114 CFU Circuit Pack</i>
363-005-229	<i>Data Sheet AUA115 LFU Circuit Pack</i>
363-099-123IR	<i>SLC[®] Series 5 Carrier System - Information Release Dual Channel Banks With Mixed Feature Packages</i>

(Continued on next page)

Related Documentation (Continued)

COT common unit
related
documentation
(continued)

Document	Title
363-205-001	<i>Fiber To The Home, Information Guide</i>
363-205-010	<i>SLC Series 5 Carrier System Applications and Planning Guide</i>
915-710-116	<i>SLC Series 5 Channel Unit Application and Prescription Settings</i>
CD-7C115-01 & -02	<i>COT Dual Channel Bank Circuit Description</i>
CD-7C116-01 & -02	<i>COT Bay Circuit Description</i>
SD-7C115-01 & -02	<i>COT Dual Channel Bank Schematic Drawing</i>
SD-7C116-01 & -02	<i>COT Bay Wiring and Application Schematic Drawing</i>

COT Channel Unit Circuit Packs

Overview

General

This subsection provides ordering information for channel unit (CU) circuit packs available for installation in *SLC* Series 5 Carrier System COT dual channel banks. The CUs ordered must be compatible with the feature package arrangement provided by the associated common circuit packs. A dual channel bank can accept a maximum of 96 CU circuit packs (48 per bank).

COT Channel Unit Descriptions and Specifications

Introduction  **NOTE:**
This section contains comcode and *COMMON LANGUAGE CLEI* code information, if available. If a discrepancy exists between a comcode or *COMMON LANGUAGE CLEI* code listed in this section and Appendix 1 entitled "Quick Reference Ordering Guide," use the information with the latest publication date.

This section contains an alphanumeric listing and description of the channel units that provide service in a *SLC* Series 5 Carrier System COT.

List of channel units and specifications The following table provides a list of the channel units along with a description, comcode, *COMMON LANGUAGE CLEI* code, feature package usage, quantity required per lines equipped, and data sheet number.

(Continued on next page)

COT Channel Unit Descriptions and Specifications (Continued)

List of channel units and specifications (continued)

Code	Description	Comcode	COMMON LANGUAGE* CLEI Code	Feature Package	Quantity per 98 Line System	Data Sheet
AUA26	BASE-10, POTS CU	103840427	5SC1CC1AXX	A, C, D	48	363-005-127
AUA33	Coin CU	103840500	5SCU231AXX	A, C, D	48	363-005-103
AUA34B	DS0 dataport CU	107748436	5SC133AAAA	C, D	48	363-005-104 (Iss. 6 or later)
AUA35	Multiparty CU	103840526	5SCU540AXX	A, C, D	48	363-005-109
AUA36	DID 2-wire CU	103840534	5SCU9F0AXX	A, C, D	48	363-005-115
AUA37	Frequency selective ringing (FSR) CU	103840542	5SCUS04AXX	A, C, D	48	363-005-121
AUA38B	POTS CU	106222664	5SC1Y20AAA	A, C, D	48	363-005-118
AUA39	SPOTS®CU	103840567	5SCU8M0AXX	A, C, D	48	363-005-120
AUA41	4-wire special services CU	106064876	5SCU7D1AAB	C, D	48	363-005-105
AUA42	2-wire E SPOTS CU	103840609	5SCU690AXX	C, D	48	363-005-106
AUA43	2-wire E SPOTS CU	105478713	5SCU6A6AXX	C, D	48	363-005-107
AUA44	4-wire special services CU	105678171	5SCU7C6AAC	C, D	48	363-005-108
AUA45B	Dual ringing repeater CU	105717987	5SCUUJ5AXX	C, D	48	363-005-123
AUA52B	OCU dataport CU	106244163	5SC1430AAA	C, D	48	363-005-111
AUA54	4-wire special services CU	103840732	5SCU7B0AXX	C, D	48	363-005-113
AUA75	2-wire point-to-point (PLAR) CU	103840963	5SC1FF2AXX	C, D	48	363-005-132

* COMMON LANGUAGE is a registered trademark and CLEI, CLLI, CLCI, and CLFI are trademarks of Bell Communications Research, Inc.

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COT Channel Unit Descriptions and Specifications (Continued)

List of channel unit descriptions

This section contains an alphanumeric listing and description of the channel units that provide service in a *SLC* Series 5 Carrier System COT.

AUA26

The AUA26 is designed for 2-wire, single party POTS applications with derived channel alarm service. The AUA26 contains a current sink (CS) circuit that provides the interface between the CO loop-start line circuit and the Series 5 carrier system. The unit provides two channels of service and is always located in the COT.

AUA33

The AUA33 is designed for coin service applications. The AUA33 is a current sink unit that provides one channel of service and is always located in the COT. The unit is compatible with 1C/2C-type and 1D-type coin telephone sets.

AUA34B

The AUA34B provides one channel of service and is always located in the COT. The AUA34B supersedes the AUA34 which has been rated DA. The AUA34B is used in an end link of a digital data system (DDS) private line data service. (*The end link is that part of the service between a customer and the local central office.*) The customer primary data rate may be 2.4, 4.8, 9.6, 19.2, 56, or 64 kb/s.

AUA35



NOTE:

Multiparty channel units generally require an AUG1 PRU at the RT. See Chapter 9 for ordering information on the AUG1.

The AUA35 is a current sink unit that provides two channels of service. The unit is always located in the COT and is intended for 2-wire multiparty applications with loop-start supervision. For 2-party lines, automatic number identification (ANI) supported by the AUA35 identifies the calling party.

AUA36

The AUA36 is a 2-wire, special service channel unit intended for use in direct inward dial (DID) trunks. The AUA36 is a current feed unit that provides two channels of service, and it is always located at the COT.

(Continued on next page)

COT Channel Unit Descriptions and Specifications (Continued)

List of channel unit descriptions (continued)

AUA37

The AUA37 is intended for frequency selective ringing (FSR) applications and furnishes a current sink interface to the central office switch. This unit provides one channel of service (odd channel) and is always located in the COT.

AUA38B

The AUA38B is intended for 2-wire, single-party POTS applications with loop-start supervision. This unit provides two channels of service and furnishes a current sink circuit which provides the interface between the central office line circuit and the Series 5 system.

AUA39

The AUA39 is intended for 2-wire, locally-switched, *SPOTS*[®] channel unit applications with both loop-start and ground-start signalling. This unit provides two channels of service and furnishes a current sink circuit which provides the interface between the central office line circuit and the Series 5 system.

AUA41

The AUA41 4-wire channel unit is intended for use in nonlocally-switched, ground-start and loop-start special services, nonswitched private lines, and private branch exchange (PBX) tie trunks. The AUA41 provides one channel of service and can function in any of the following modes:

- FX-Station End (4FXS) [requires a source of negative superimposed ringing]
- Duplex (4DX)
- Transmission Only (4TO)
- Equalized Transmission Only (4ETO).

(Continued on next page)

COT Channel Unit Descriptions and Specifications (Continued)

List of channel unit descriptions (continued)

AUA42

The AUA42 is used for 2-wire, nonlocally-switched, ground-start and loop-start special services, 2-wire, nonswitched private lines, and DID trunks. The unit may also be used in locally-switched services. The AUA42 is a current sink unit that provides two channels of service. Each channel can be used independently of the other to provide any of the following functions:

- Foreign Exchange - Office End (FXO)
- Dial Pulse Terminate [(DPT) is typically located at RT]
- Transmission Only (TO).

AUA43

The AUA43 is used for 2-wire, nonlocally-switched, ground-start and loop-start special services, 2-wire, nonswitched private lines, and DID trunks. The unit may also be used in locally-switched services. The AUA43 is a current feed unit that provides two channels of service. Each channel can be used independently of the other to provide any of the following functions:

- FXS [requires a source of negative superimposed ringing]
- Dial Pulse Originate (DPO)
- TO.

AUA44

The AUA44 is used in nonlocally-switched, ground-start and loop-start special services. Typical services are foreign exchange trunks and lines and off-premises stations. The unit may be used at the RT or COT; when in tandem (4TDM) mode, the COT (and RT if not equipped with E&M leads) digroup must be modified using an ED-7C700-20, G1 E&M lead applique cable (Comcode 601245269).

AUA45B

The AUA45B is used to provide 2-wire, private-line, point-to-point manual ringdown service. Each unit occupies one physical slot in a channel bank and provides two channels of service. When used in the COT, that bank must be wired to a negative superimposed ringing source.

(Continued on next page)

COT Channel Unit Descriptions and Specifications (Continued)

List of channel unit descriptions (continued)

AUA52B

The AUA52B provides one channel of service and is intended for the end link of a digital data system private-line data service. (*The end-link is that part of the service between a customer and the local central office.*) The AUA52B is normally located at the RT; however, it may be used at the COT for local data applications.

AUA54

The AUA54 is a 4-wire, special services channel unit that is intended for use in circuits that use E&M signalling, such as PBX tie trunks. The AUA54 can also interface other transmission equipment; it cannot interface cable. The AUA54 is normally used at the RT, but it may be used in the COT if the COT digroup is modified using ED-7C700-20, G1 E&M lead applique cable (Comcode 601245269). The AUA54 provides one channel of service and can function in modes E&M or PLR.

AUA75

The AUA75 is designed for 2-wire, private-line, point-to-point automatic ringdown (2WPLAR) services. The unit provides a current feed interface to the customer loop. Each unit occupies one physical slot in the channel bank and provides two channels of service (each channel operates independently).

COT Channel Unit Miscellaneous Equipment

Introduction

This section lists miscellaneous equipment which is needed to maintain, test, or protect Series 5 channel circuit packs.

Guardian circuit pack carrying cases



NOTE:

The Guardian carrying case has also been designed for other equipment families such as the DDM-1000/2000 multiplexers and SLC 96 Carrier Systems. If you need additional information or drawings, contact your local Lucent Technologies Account Executive.

Order this set of two custom-made carrying cases to protect your spare Series 5 circuit packs (common and channel units). This rugged set of cases has "faceplate up" storage, card guides, internal padding, and a schematic to keep needed spares well organized and fully protected. The Guardian comes complete with a ground cord, wrist strap, and a grounded working surface.

Comcode 406349795

CLEI code 5SPQ00A1AA

RTG16L2H15A test cord

Order this item to receive an ITT *Cannon*^{*} test cord. This test cord is used to obtain Tip/Ring access on nondataport channel units with access jacks on the faceplate. This item is also listed in Chapter 11 entitled "Turnup, Test, and Maintenance Equipment."

Comcode 405755208

* Cannon is a registered trademark of ITT

Related Documentation

COT channel unit related documents

The following table lists Lucent Technologies documentation where additional information may be found concerning COT channel circuit packs. To order one or more of the following documents, refer to the "About This Document" section of this document.

Document	Title
363-005-103	<i>Data Sheet AUA33 Circuit Pack</i>
363-005-104	<i>Data Sheet AUA34B Circuit Pack (Issue 6 or later)</i>
363-005-105	<i>Data Sheet AUA41 Circuit Pack</i>
363-005-106	<i>Data Sheet AUA42 Circuit Pack</i>
363-005-107	<i>Data Sheet AUA43 Circuit Pack</i>
363-005-108	<i>Data Sheet AUA44 Circuit Pack</i>
363-005-109	<i>Data Sheet AUA35 Circuit Pack</i>
363-005-111	<i>Data Sheet AUA52B Circuit Pack</i>
363-005-113	<i>Data Sheet AUA54 Circuit Pack</i>
363-005-114	<i>Data Sheet AUA36 Circuit Pack</i>
363-005-118	<i>Data Sheet AUA38 Circuit Pack</i>
363-005-120	<i>Data Sheet AUA39 Circuit Pack</i>
363-005-121	<i>Data Sheet AUA37 Circuit Pack</i>
363-005-123	<i>Data Sheet AUA45() Circuit Pack</i>
363-005-127	<i>Data Sheet AUA26 Circuit Pack</i>
363-005-132	<i>Data Sheet AUA75 Circuit Pack</i>
363-205-001	<i>Fiber To The Home, Information Guide</i>
363-205-010	<i>SLC® Series 5 Carrier System Applications and Planning Guide</i>
915-710-116	<i>Channel Unit Application and Prescription Settings</i>

COT Digital Connectivity

Overview

General

A COT dual channel bank arranged for FPC or FPD may have one or more digroups arranged for digital connectivity. The affected digroups are then connected using two pairs of shielded wire (per digroup) to a DS1 facility of the type that serves a D4 channel bank digroup. Standard channel unit circuit packs *are not* installed in digroups at the terminal converted to digital connectivity. For each digroup converted, the normal complement of channel units are replaced by the two plug-ins comprising a digital connectivity unit (DCU). Snap-in faceplates are used to cover the other channel unit slots to prevent accidental circuit pack insertion. The DCU must be installed in the digroup as a pair of plug-ins. The AUA16 is installed in the sixth channel unit position, and the AUA17 is installed in the twelfth channel unit position. Digital connectivity may not be applied to banks arranged for the FITL feature.

COT Digital Connectivity Equipment Descriptions and Specifications

Introduction

The equipment descriptions contained in this section are arranged in alphanumeric order. Unless otherwise specified, each item listed in this section has a rating of general availability.

AUA16

The AUA16 digital connectivity unit - left (DCU-L) works with the AUA17 digital connectivity unit - right (DCU-R) to provide a DS1 rate interface with an Fs (D4) framing format. At the COT end, this allows (using a DSX-1 cross-connect) connection to an M12 or an M13 multiplexer, a Digital Access Cross-Connect System (DACS), a T1 line (office repeater interface), or to another DCU in a companion Series 5 COT. This unit must be installed with an AUA17 DCU-R.

<i>Unit Description and Function Code:</i>	DCU-L
<i>Description:</i>	Digital Connectivity Unit-Left
<i>Comcode:</i>	103840310
<i>CLEI Code:</i>	5SCS400AXX
<i>Lucent Technologies Document:</i>	Data Sheet 363-005-142
<i>Feature Pkg. Compatibility:</i>	C, D
<i>Max. Order per 96-Line System:</i>	1/48, 2/96, 3/144, 4/192

AUA17

The AUA17 DCU-R works with the AUA16 DCU-L to provide a DS1 rate interface with an Fs (D4) framing format. At the COT end, this allows (using a DSX-1 cross-connect) connection to an M12 or an M13 multiplexer, a Digital Access Cross Connect System (DACS), a T1 line (office repeater interface), or to another DCU in a companion Series 5 COT. This unit must be installed with an AUA16 DCU-L.

(Continued on next page)

COT Digital Connectivity Equipment Descriptions and Specifications (Continued)

AUA17 (continued)

<i>Unit Description and Function Code:</i>	DCU-R
<i>Description:</i>	Digital Connectivity Unit - Right
<i>Comcode:</i>	103840328
<i>CLEI Code:</i>	5SCS500AXX
<i>Lucent Technologies Document:</i>	Data Sheet 363-005-142
<i>Feature Pkg. Compatibility:</i>	C, D
<i>Max. Order per 96-Line System:</i>	1/48, 2/96, 3/144, 4/192

ED-7C693-30, G7

This group includes a kit of parts for digital connectivity. The kit contains the following equipment:

- 1 - AUA16-DCU-L
 - 1 - AUA17-DCU-R
 - 2 - ED-7C693-30, G5 (Snap-In Faceplate Assembly).
-

Related Documentation

COT digital connectivity related documents

The following table lists Lucent Technologies documentation where additional information may be found concerning COT digital connectivity circuit packs. To order one or more of the following documents, refer to the "About This Document" section of this document.

Document	Title
363-005-142	<i>Data Sheet AUA16 Circuit Pack</i>
363-005-143	<i>Data Sheet AUA17 Circuit Pack</i>
363-205-010	<i>SLC® Series 5 Carrier System Applications and Planning Guide</i>
ED-7C693-30	<i>Digital Connectivity Kits</i>

COT Feature Package Conversion

Overview

General

This section provides information for circuit packs required to convert an existing *SLC* Series 5 Carrier System COT DCB to a higher level feature package arrangement. Ordering information and a description for each of the circuit packs in this section may be found in the section entitled "COT Common Unit Descriptions and Specifications."

To ensure proper operation, it is recommended that both banks of a COT DCB be arranged for the same feature package. The associated RT bank assembly must also be converted to the same feature package as the COT bank assembly. See the section entitled "COT Digital Connectivity" for circuit packs needed to convert an existing FPC or FPD COT DCB from standard channel operation to digital connectivity. See Chapter 9 of this document for conversion of RT DCBs.

Convert Existing FPA to FPC

**Circuit packs
required for
conversion**

The following circuit packs will be required for this conversion:

- AUA18 DTU-L
 - AUA19 DTU-R
 - AUA3 OTU [only required if dataport CUs are used (office composite clock available)]
 - AUB2B or AUB5 CTU (AUB2B if only PGTC testing required, otherwise AUB5 if XTC testing required)
 - AUB6 ADU
 - MC97755A1 BCU (CIU required for initialization and turnup).
-

Convert Existing FPA or FPC to FPD

Circuit packs required for conversion

A COT dual channel bank per J1C182AA-1 (rated DA) will not support FPD. A COT dual channel bank per J1C182AD-1, L() is required for FPD conversion. The following circuit packs will be required for this conversion:

- AUA71 TCU (replaces LIU-B and LIU-D)
 - AUA73() LSU (required if system equipped with protection LIU; replaces AUA13)
 - AUA61D or AUA62D LIU (LIU D-version required).
-

Remote Terminal Frame and Associated Equipment

4

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Overview

Preface

Introduction

This chapter provides ordering information for *SLC*[®] Series 5 Carrier System remote terminal (RT) frame equipment. Most of the equipment listed in this chapter may be used in more than one RT application. The RT frame may be located at a customer premises, concrete hut, controlled environmental vault (CEV), or maxi-hut.

When equipment is added to an existing prewired RT bay frame, the equipment must be ordered separately. Equipment may be ordered by apparatus code number, J-specification number, comcode number, or COMMON LANGUAGE^{*} CLEI code number (if assigned). For a condensed listing of RT equipment, refer to Appendix 1 of this document.

In order to help customers comply with state and local code requirements, Lucent Technologies manufactures nearly all its RT equipment codes to meet *UL*[†] Recognition. A *UL* Listed Series 5 RT consists entirely of equipment and apparatus codes that have been *UL* Recognized (including circuit packs). At this time, Lucent Technologies plans to obtain *UL* Recognition for all new RT equipment codes introduced. Unless otherwise specified, the equipment codes listed in this chapter have obtained *UL* Recognition.

The following figure illustrates the recommended equipment placement for an AC powered ED-8C500-50, G5 RT frame.

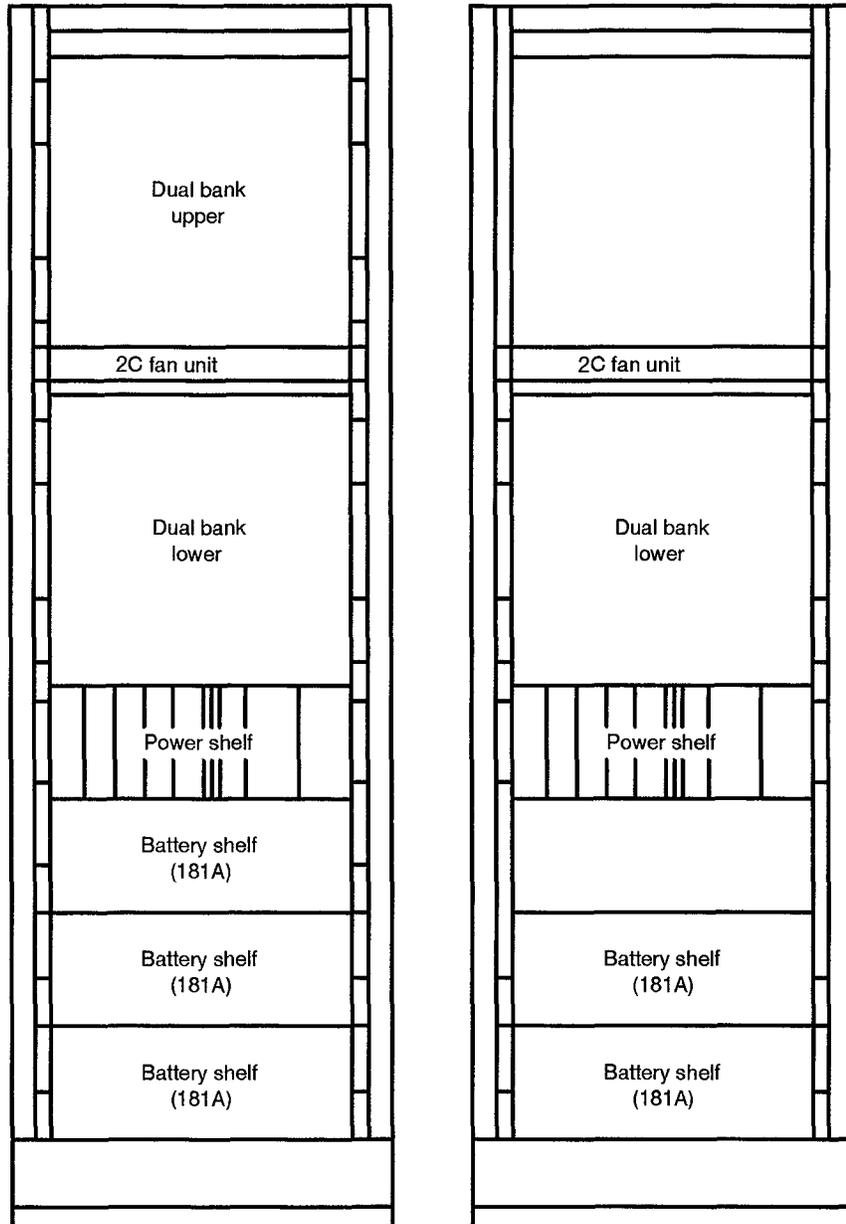
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† Registered trademark of Underwriters Laboratories Inc.

Preface (Continued)

Introduction (continued)

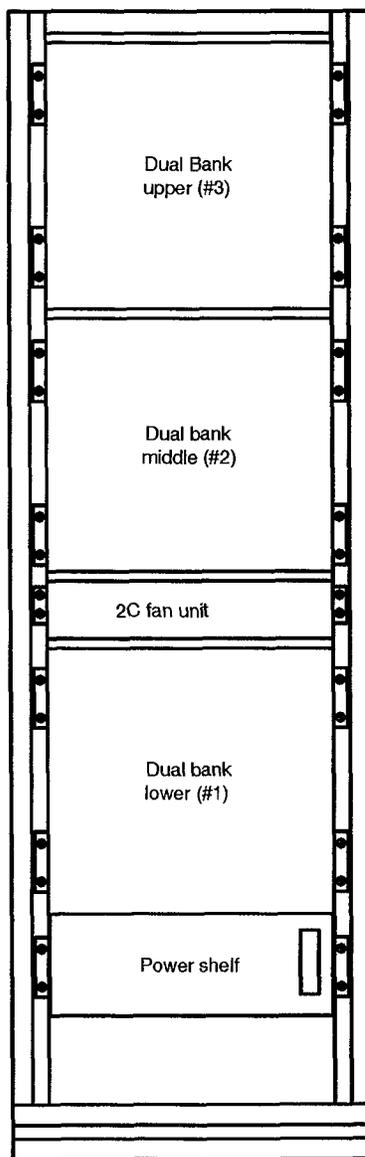


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Preface (Continued)

Introduction (continued)

The following figure illustrates the recommended equipment placement for a DC (bulk) powered ED-8C500-50, G5 RT frame. To assure proper operation, the equipment must be installed according to the arrangements indicated in Document 363-202-602.



RT Equipment Description and Ordering Information

List and Description of RT Equipment

- General** The order wording and equipment descriptions contained in this section are arranged in alphanumeric order. Unless otherwise specified, each item listed in this section has a rating of general availability.
-
- ED-8C500-50, G5** Order this item to receive an unequipped 7-foot Series 5 RT bay framework. The AC (distributed) powered frame can be equipped with a maximum of two J1C182AE-1, L() or AF-1, L() dual channel banks. The DC (bulk) powered 7-foot frame arrangement allows a maximum capacity of three dual channel banks.
Comcode 601019458
-
- IR-30** The IR-30 battery is designed to be a cost-effective solution for small battery reserve applications. No maintenance, long life, lower cost, and improved safety are features of this new battery.
- The IR-30 is a 12-volt, 28 ampere-hour constant current charging battery that can be used in applications for the KS-21906 L4 (Gates) 25 ampere-hour batteries. For replacement purposes, IR-30 and KS-21906 L4 batteries may co-exist in any RT application; however, both battery types *may not* be used in the same 181-type apparatus mounting.
- Order four IR-30 batteries for each 181-type apparatus mounting ordered.
Comcode 406382754
-
- IR-30C** The IR-30C battery is a 12 V DC, 28 ampere-hour constant voltage, sealed lead acid unit. This battery has been conditioned for constant voltage applications.
Comcode 406456707
-

(Continued on next page)

List and Description of RT Equipment (Continued)

IR-40 The IR-40 battery is a 12 V DC, 36 ampere-hour constant current, sealed lead acid unit.
Comcode 406382739

IR-40C The IR-40C battery is a 12 V DC, 36 ampere-hour constant voltage, sealed lead acid unit. This battery has been conditioned for constant voltage applications.
Comcode 406456715

J1C182AE-1, L1^{DA} This assembly is rated discontinued availability (DA) and is replaced by the J1C182AE-1, L3 dual channel bank.

J1C182AE-1, L3 Order this assembly to receive a Series 5 RT dual channel bank (DCB). The following figure illustrates a fully configured Series 5 DCB. This assembly replaces the J1C182AB-1 DCB (rated DA). The DCB requires 20 inches of vertical mounting space. Each assembly is capable of accommodating two complete systems (192 lines). External connections (including derived pairs, T1 lines, and alarms) are made from the front of the assembly with 710-type connectors. Plug-in circuit packs are not provided as part of this assembly and must be ordered separately (see Chapter 5).
Comcode 601286214
CLEI code 5SMRA43B

(Continued on next page)

List and Description of RT Equipment (Continued)

J1C182AF-1, L1^{DA} This assembly is rated DA and is replaced by the J1C182AF-1, L3 dual channel bank.

J1C182AF-1, L3 Order this assembly to receive a Series 5 RT DCB, with all the features of the J1C182AE-1, L3 DCB, and additional connectorized cables for access to the 4-wire channel unit (AUA54) E, M, SB and SG leads. Plug-in circuit packs are not provided as part of this assembly and must be ordered separately. (See Chapter 5.)
Comcode 601286222
CLEI code 5SMRB43B

J1C182BA-1, L1^{DA} This assembly is rated DA and is replaced by the J1C182BA-1, L3 power shelf.

J1C182BA-1, L3 Order this item to receive a power shelf assembly used for distributed AC power applications. This shelf requires 8 inches of vertical mounting space and has connectorized cables to connect the assembly to the channel bank, battery shelves, and fan unit. Plug-in circuit packs are not provided as part of this assembly and must be ordered separately. (See Chapter 5.)
Comcode 601292808

J1C182BB-1, L1 Order this item to receive a power shelf assembly used for distribution of -48 V DC in a bulk-powered, 7-foot frame equipped with a maximum of three Series 5 DCBs. This shelf requires 8 inches of vertical mounting space and has connectorized cables to connect the assembly to the channel bank, battery shelves, and fan unit. Plug-in circuit packs are not provided as part of this assembly and must be ordered separately. (See Chapter 5.)
Comcode 601068109

(Continued on next page)

List and Description of RT Equipment (Continued)

J1C182BC-1, L1

Order this assembly to receive an RT bulk ringing shelf. The shelf consists of two identical ringing systems, Group 1 and Group 2. Each group is equipped with two ringing generators and a ringing control unit (RCU). The second ringing generator in each group provides protection for the main ringing generator in the event of a failure. This assembly is primarily used in 80E bulk powered cabinets but is not limited to that application. A fully equipped 80E BP cabinet only requires plug-ins for Group 1. Equip the shelf with plug-ins for Group 1 and Group 2 if the customer wishes to arrange the cabinet for two separate ringing loads. This shelf requires circuit pack plug-ins for its operation. Plug-in circuit packs are not provided as part of this assembly and must be ordered separately. (See Chapter 5.)

Comcode 601244437

J1C182BD-1, L1

Order this assembly to receive a compact -48 V DC power shelf. This shelf has a 20 amp load rating and also provides 20-Hz ringing. The shelf rectifier rating is 28 amps (allows margin for battery recharge). The initial deployment of this power shelf was made in the 80A bulk power cabinet. The development of this shelf is part of an ongoing program to convert all RT structures to bulk power and bulk ringing. The J1C182BD-1 is 21 inches wide and requires 8 inches of vertical space. This shelf requires circuit pack plug-ins for its operation. Plug-in circuit packs are not provided as part of this assembly and must be ordered separately. (See Chapter 5.) For additional information, refer to Document 363-099-154IR.

Comcode 601329964

KS-21906, L4



NOTE:

Orders for this item should only be made for maintenance of existing equipment. See IR-series battery description.

Order this item to receive a 12 V DC, 25-amp hour, six pack of Gates batteries. Order a maximum of 4 batteries (six packs) per 181-type apparatus mounting. New RT installations should be equipped with one of the new IR-series batteries. Order the KS-21906, L4 (Gates) batteries for replacement of defective units in existing applications only. See Chapter 11 of this document to order a 197A battery load test set (used to test this type of battery).

Comcode 402269583

CLEI code S9RT600

(Continued on next page)

List and Description of RT Equipment (Continued)

2A^{DA} This item is rated discontinued availability (DA) and has been replaced by the 2C fan unit.

2B This assembly is not ordered for RT frame applications. This assembly is used in 51A, 80D, and 80E cabinets. For more information, refer to Chapter 6 of this document, and use the appropriate ED- and group number for your particular cabinet application. The 2B fan unit directs the air flow upward through the equipment.
Comcode 105550420

2C  **NOTE:**
The 2C fan unit replaces the 2A fan unit (rated DA). Some 2C fan units were installed in 51A and 80-type cabinet assemblies manufactured prior to January 1990. Do not mix 2B and 2A/2C fan assemblies in the same application.

Order this item to receive a cooling fan assembly. The 2C fan assembly has three 6-inch cooling fans. The fans are controlled by thermal switches located on the fan control units (FCUs) and power shelf units (336A1 rectifiers and 337A1 battery chargers). The fans direct the air downward through the equipment frame. The front panel of the fan assembly contains a red FAIL indicator. Order the 2C fan unit for the ED-8C500-50, G5 RT frame regardless of location (customer premises, huts, or vaults). The 2C fan unit is also used in the 90A business remote terminal (BRT) cabinet.
Comcode 106328336

3B1EW Order this item to provide 3B1EW protector units for miscellaneous pairs. The 3B1EW protector units are supplied with the Lucent Technologies structures listed in Chapter 6 of this document to provide for the ultimate capacity of the structure. The 3B1EW protector units for miscellaneous pairs are supplied with 80D/E cabinets as described in Chapter 6 of this document. For 80C cabinets (partially cabled for Series 5 carrier systems), order eight 3B1EW protector units for maximum miscellaneous pair capacity.
Comcode104410147

(Continued on next page)

List and Description of RT Equipment (Continued)

3B3EW Order this item to provide 3B3EW protector units for metallic digital lines with outside plant exposure. The 3B3EW protector units are supplied with 80D/E cabinets as described in Chapter 6 of this document. For 80C cabinets (partially cabled for Series 5 carrier systems), order twenty 3B3EW protector units for each dual channel bank being installed.
Comcode 104410162

3C1EW Order this item to provide protector units for derived pairs. The 3C1EW is normally required only if they were not initially provided with a structure or cabinet. Order a maximum of 200 3C1EWs for each additional dual channel bank required.
Comcode 104410188

181A Order this item to receive a 181A apparatus shelf (battery shelf). The 181A is used in distributed (AC) power applications. The shelf holds four IR-series or KS-21906, L4 batteries (ordered separately) and has a battery heater that keeps the batteries warm when the temperature falls below freezing. This apparatus shelf is not recognized. Use the 181B where *UL* Listing is required. This unit is used in large RT structures (platforms, CEVs, and huts).
Comcode 104028733

181B Order this item to receive a 181B apparatus shelf (battery shelf). Order a maximum of three 181B apparatus shelves per 7-foot RT frame arranged for distributed (AC) power. The 181B is not used in bulk power applications. The shelf holds four IR-series or KS-21906, L4 batteries (ordered separately) and does not have a battery heater. This apparatus shelf is *UL* Recognized. Use the 181B where *UL* Listing is required.
Comcode 105661524

Related Documentation

RT frame and associated equipment related documentation

The following table lists Lucent Technologies documentation where additional information may be found concerning RT frames and optional equipment. To order one or more of the following documents, refer to the "About This Document" section of this document.

Document	Title
363-202-602	<i>Bulk Protected Remote Terminals, Installation of Shelves for SLC® Series 5 and SLC 96 Carrier Systems</i>
363-205-010	<i>SLC Series 5 Carrier System Applications and Planning Guide</i>
915-710-115	<i>SLC Series 5 Carrier System Application Engineering Practice</i>
J1C182AE-1	<i>RT Dual Channel Bank</i>
J1C182AF-1	<i>E&M RT Dual Channel Bank</i>
J1C182BA-1	<i>RT Power Shelf</i>
J1C182BB-1	<i>RT Bulk Power Shelf</i>
CD-7C117-02	<i>RT Bank Circuit Description</i>
CD-7C118-01	<i>RT Bay Circuit Description</i>
CD-7C119-01	<i>RT Power Shelf Circuit Description</i>
CD-7C130-01	<i>RT DC Bulk Powered Shelf Circuit Description</i>
SD-7C117-02	<i>RT Bank Schematic Drawing</i>
SD-7C118-01	<i>RT Bay Schematic Drawing</i>
SD-7C119-01	<i>RT Power Shelf Schematic Drawing</i>
SD-7C130-01	<i>RT DC Bulk Powered Shelf Schematic Drawing</i>
FPD-801-450-106-5	<i>Floor Plan Data for 7-Foot AC Powered RT Frames</i>
FPD-801-450-106-6	<i>Floor Plan Data for 7-Foot DC Bulk Powered RT Frames</i>

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Purpose

Overview

Introduction

This chapter contains ordering information for plug-in circuit packs required at a *SLC*[®] Series 5 Carrier System remote terminal (RT) frame or cabinet. The information in this chapter is divided into the following five subsections:

- “RT Common Circuit Packs”
 - “RT Channel Unit Circuit Packs”
 - “RT Digital Connectivity Equipment”
 - “RT Power and Ringing Circuit Packs”
 - “RT Circuit Packs Required for Feature Package Conversion”.
-

RT Common Circuit Packs

Overview

General

This subsection provides ordering information for common circuit packs needed to prepare *SLC* Series 5 Carrier System RT dual channel banks to accept channel units. Common units are selected to match a desired number of lines (T1) for a feature package which supports a specific set of services. This section is structured to assist you in ordering current production common units that support the following RT feature packages or arrangements.

RT Feature Packages and Arrangements

Description

The following is a listing of the *SLC* Series 5 Carrier System RT feature packages and arrangements:

- Analog line to integrated *SLC*[®]Carrier at *5ESS*[®]Switch cut (ALIC5) — enables the rehabilitation of copper plant on an analog switch through a direct conversion to integrated digital loop carrier, simultaneously with the *5ESS* switch cutover.
- Feature Package 303 (FP303) — implementation of TR-303 capabilities
- Feature Package A (FPA)^{DA} — rated DA, do not order
- Feature Package B (FPB) — includes universal, integrated, Mode 1, Mode 2, and special service (SS) arrangements
- Feature Package C (FPC) — includes AutoCut option (FPC/AC)
- Feature Package D (FPD) — low bit rate voice (LBRV)
- Feature Package F (FPF) — supports *SLC*-2000 Multi-Services Distant Terminal (MSDT)
- Integrated Network Access-Remote Terminal (INA-RT) — includes Mode I and Mode III

Feature Package A (FPA) is rated discontinued availability (DA) and ordering of FPA compatible circuit packs should be confined to additions and/or maintenance of existing systems. Digital connectivity is available on FPC and FPD. FPF is required at the Series 5 RT to support the *SLC*-2000 MSDT feature.

RTs arranged for D4 emulation and INA-RT systems

In addition to the basic feature package configurations, RTs may be arranged for D4 bank emulation and designated INA-RT systems. Before ordering circuit packs for INA-RT systems, the user must decide on the mode of operation (Mode I or III) to be used and the portion of the dual bank assembly to be equipped for INA-RT. See the engineering section of Document 363-205-104 for help in making these decisions. See Customer Information Release Document 363-099-123IR for information on mixed feature packages.

Services provided by system configurations

See Chapter 1, "System Description," for an overview of the *SLC* Series 5 Carrier System architecture and a general summary of the services provided by the various system configurations.

RT Feature Packages Common Unit Requirements

Introduction

The exact number and type of common plug-in circuit packs required for each system depend on the desired feature package and the number of lines and digroups equipped. The following table illustrates the recommended standard digroup growth pattern for a Series 5 RT dual channel bank.

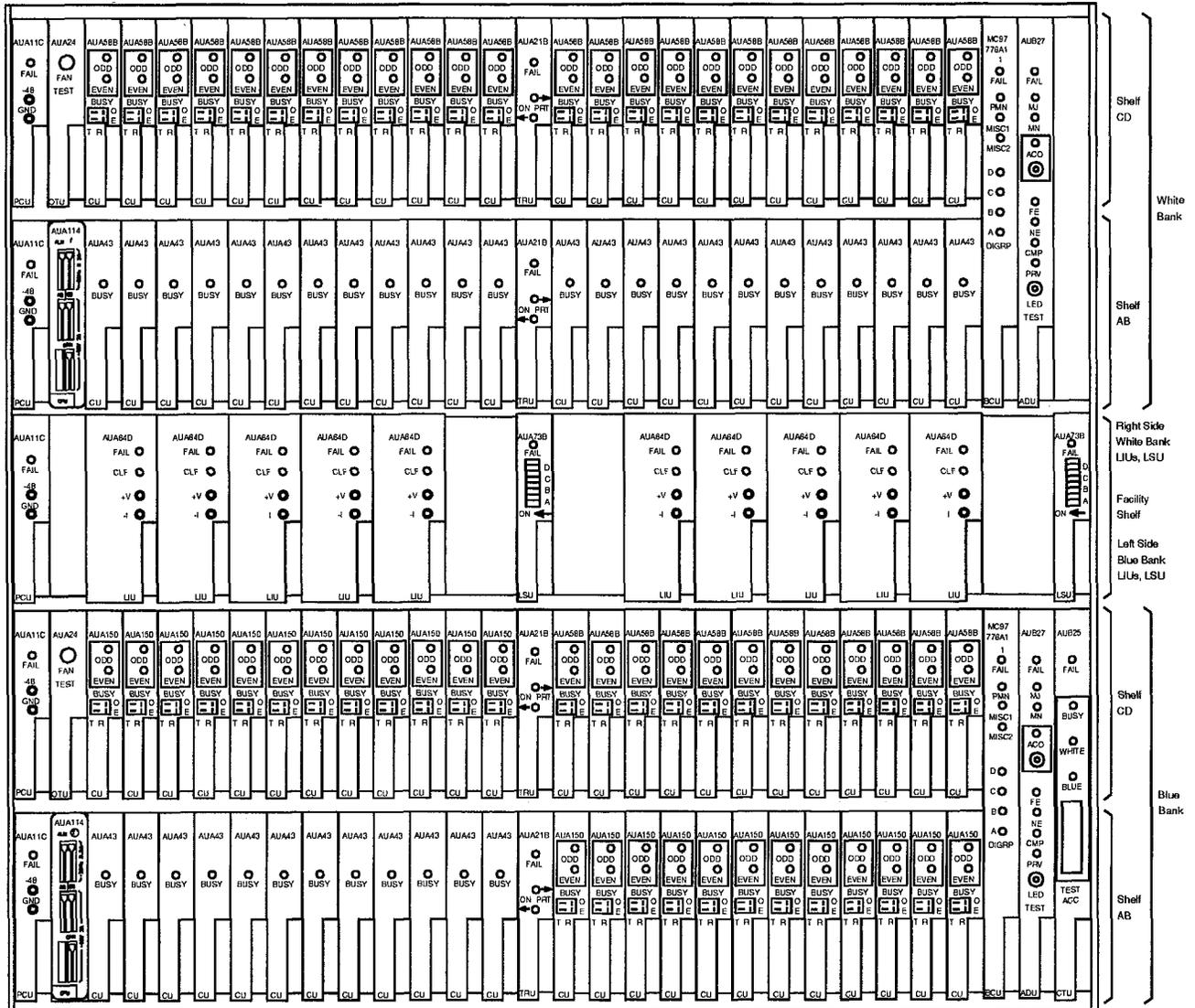
Lines Equipped	Digroup Equipped	
	Blue System	White System
48	A, B	—
96	A, B, C, D	—
144	A, B, C, D	A, B
192	A, B, C, D	A, B, C, D

The following figure illustrates a fully-equipped RT dual channel bank. Refer to Chapter 3, "Central Office Terminal Circuit Packs," for dual channel bank nomenclature.

(Continued on next page)

RT Feature Packages Common Unit Requirements (Continued)

Introduction (continued)



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RT Feature Packages Common Unit Requirements (Continued)

Feature Package 303 The following table assumes the standard digroup growth pattern and provides information on current production common units required for RT Feature Package 303.

Order Wording	Description	Quantity Required per Lines Equipped				Comments
		48	96	144	192	
AUA11C	PCU	2	3	4	5	
AUA18	DTU-L	1	1	1	1	Optional; if used this unit requires an AUA19 DTU-R (see unit description)
AUA19	DTU-R	1	1	1	1	Optional; if used this unit requires an AUA18 DTU-L (see unit description)
AUA112	TRU	2	2	4	4	Minimum of two required (A/B and C/D shelves)
AUA112B	TRU	2	2	4	4	Minimum of two required (A/B and C/D shelves) (Release 3.0)
993A	TRU connector assembly	1	1	2	2	Required to interconnect TRUs
AUA24	FCU	1	1	2	2	
AUA61C/D or	LIU-ORB	3	3-5	6-8	6-10	LIU quantities include one unit per bank for protection line
AUA62C/D or	LIU-PWR	3	3-5	6-8	6-10	
AUA64C/D	LIU-Loop	3	3-5	6-8	6-10	
AUA74	LSU	1	1	2	2	One required per system if protection LIUs are used (see unit description)

(Continued on next page)

RT Feature Packages Common Unit Requirements (Continued)

Feature Package
 303 (continued)

Order Wording	Description	Quantity Required per Lines Equipped				Comments
		48	96	144	192	
AUA114	CFU	2	2	2	2	
AUA115	LFU	1	1	1	1	Optional; required only if LIUs are used to power T1 repeater from the RT
AUB22 <i>or</i>	CTU	1	1	1	1	Use for PGTC testing
AUB25	CTU	1	1	1	1	Use for XTC testing (PGTC mode)
AUB27 <i>or</i>	ADU	1	1	2	2	Rated DA; replaced by AUB27B
AUB27B	ADU	1	1	2	2	
MC97777A1	BCU	1	1	2	2	
MC97796A1	BCU	1	1	2	2	Required for FP303 R3.0

(Continued on next page)

RT Feature Packages Common Unit Requirements (Continued)

Feature Package B The following table assumes the standard digroup growth pattern and provides information on current production common units required for RT Feature Package B.

⇒ NOTE:
For FPB, Mode 1 applications, all digroups of a 96-line system should be equipped with common units. If only A and B digroups are equipped, it will be necessary to remove the alarm display unit (ADU) circuit pack for reoptioning when digroups C and D are added. A service interruption will result on digroups A and B when the ADU is removed.

Order Wording	Description	Quantity Required per Lines Equipped				Comments
		48	96	144	192	
AUA11C	PCU	—	3	—	5	
AUA18	DTU-L	—	1	—	1	Optional; if used this unit requires an AUA19 DTU-R (see unit description)
AUA19	DTU-R	—	1	—	1	Optional; if used this unit requires an AUA18 DTU-L (see unit description)
AUA22B	TRU	—	2	—	4	Use with MC97724A1 ^{DA} BCU; can be used with MC97771A1 ^{DA} , MC97776A1 ^{DA} , or MC97776A1B BCU in Mode 1 only
AUA24	FCU	—	1	—	2	
AUA61D <i>or</i>	LIU-ORB	—	5[3]	—	10[6]	LIU quantities include one unit per bank for protection line; quantities shown in [] are for Mode 2 operation only
AUA62F <i>or</i>	LIU-PWR	—	5[3]	—	10[6]	
AUA64F	LIU-Loop	—	5[3]	—	10[6]	

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RT Feature Packages Common Unit Requirements (Continued)

Feature Package B (continued)

Order Wording	Description	Quantity Required per Lines Equipped				Comments
		48	96	144	192	
AUA73B	LSU	—	1	—	2	One required per system if protection LIUs are used
AUA105	TRU	—	2	—	4	Compatible with all FPB configurations except those using an MC97724A1 ^{DA} BCU; use AUA22B
AUA114	CFU	—	2	—	2	
AUA115	LFU	—	1	—	1	Optional; required only if LIUs are used to power T1 repeater from the RT
AUB22 <i>or</i>	CTU	—	1	—	1	Use for PGTC testing
AUB25	CTU	—	1	—	1	Use for XTC testing; do not order with MC97724A1 ^{DA} BCU
AUB27 <i>or</i>	ADU	—	1	—	2	Rated DA; replaced by AUB27B
AUB27B	ADU	—	1	—	2	Required for SS applications
MC97724A1 <i>or</i>	BCU	—	1	—	2	Rated DA; replaced by MC97771A1 ^{DA}
MC97771A1 <i>or</i>	BCU	—	1	—	2	Rated DA; replaced by MC97776A1 ^{DA}
MC97776A1 <i>or</i>	BCU	—	1	—	2	Rated DA; replaced by MC97776A1B
MC97776A1B	BCU	—	1	—	2	Use with special service CUs; provides enhanced alarms for ISDN

(Continued on next page)

RT Feature Packages Common Unit Requirements (Continued)

Feature Package C The following table assumes the standard digroup growth pattern and provides information on current production common units required for RT Feature Package C.

Order Wording	Description	Quantity Required per Lines Equipped				Comments
		48	96	144	192	
AUA11C	PCU	2	3	4	5	
AUA18	DTU-L	1	1	1	1	Optional; if used this unit requires an AUA19 DTU-R (see unit description)
AUA19	DTU-R	1	1	1	1	Optional; if used this unit requires an AUA18 DTU-L (see unit description)
AUA21B	TRU	1	2	3	4	
AUA24	FCU	1	1	2	2	
AUA61D <i>or</i>	LIU-ORB	3	5	8	10	LIU quantities include one unit per bank for protection line
AUA62F <i>or</i>	LIU-PWR	3	5	8	10	
AUA64F	LIU-Loop	3	5	8	10	
AUA73B	LSU	1	1	2	2	One required per system if protection LIUs are used (see unit description)
AUA114	CFU	2	2	2	2	
AUA115	LFU	1	1	1	1	Optional; required only if LIUs are used to power T1 repeater from the RT
AUB22 <i>or</i>	CTU	1	1	1	1	Use for PGTC testing
AUB25	CTU	1	1	1	1	Use for XTC testing
AUB26	ADU	1	1	2	2	
MC97756A1	BCU	1	1	2	2	

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RT Feature Packages Common Unit Requirements (Continued)

Feature Package C With AutoCut The following table assumes the standard digroup growth pattern and provides information on current production common units required for RT Feature Package C with AutoCut.

Order Wording	Description	Quantity Required per Lines Equipped				Comments
		48	96	144	192	
AUA11C	PCU	2	3	4	5	
AUA18	DTU-L	1	1	1	1	Optional; if used this unit requires an AUA19 DTU-R (see unit description)
AUA19	DTU-R	1	1	1	1	Optional; if used this unit requires an AUA18 DTU-L (see unit description)
AUA24	FCU	1	1	2	2	
AUA61D <i>or</i>	LIU-ORB	3	5	8	10	LIU quantities include one unit per bank for protection line
AUA62F <i>or</i>	LIU-PWR	3	5	8	10	
AUA64F	LIU-Loop	3	5	8	10	
AUA73B	LSU	1	1	2	2	One required per system if protection LIUs are used (see unit description)
AUA105 <i>or</i>	TRU	1	2	3	4	
AUA109	TRU	1	2	3	4	
AUA114	CFU	2	2	2	2	
AUA115	LFU	1	1	1	1	Optional; required only if LIUs are used to power T1 repeater from the RT
AUB22 <i>or</i>	CTU	1	1	1	1	Use for PGTC testing
AUB25	CTU	1	1	1	1	Use for XTC testing

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RT Feature Packages Common Unit Requirements (Continued)

Feature Package C with AutoCut (continued)

Order Wording	Description	Quantity Required per Lines Equipped				Comments
		48	96	144	192	
AUB27 <i>or</i>	ADU	1	1	2	2	Rated DA; replaced by AUB27B
AUB27B	ADU	1	1	2	2	
MC97771A1 <i>or</i>	BCU	1	1	2	2	Rated DA; replaced by MC97776A1 ^{DA}
MC97776A1 <i>or</i>	BCU	1	1	2	2	Rated DA; replaced by MC97776A1B
MC97776A1B	BCU	1	1	2	2	Replaces MC97776A1 ^{DA}

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RT Feature Packages Common Unit Requirements (Continued)

Feature Package D The following table assumes the standard digroup growth pattern and provides information on current production common units required for RT Feature Package D.

Order Wording	Description	Quantity Required per Lines Equipped				Comments
		48	96	144	192	
AUA11C	PCU	2	3	4	5	
AUA18	DTU-L	1	1	1	1	Optional; if used this unit requires an AUA19 DTU-R (see unit description)
AUA19	DTU-R	1	1	1	1	Optional; if used this unit requires an AUA18 DTU-L (see unit description)
AUA21B	TRU	1	2	3	4	
AUA24	FCU	1	1	2	2	
AUA61D <i>or</i>	LIU-ORB	2	3	5	6	LIU quantities include one unit per bank for protection line
AUA62F <i>or</i>	LIU-PWR	2	3	5	6	
AUA64F	LIU-Loop	2	3	5	6	
AUA71	TCU	1	2	3	4	
AUA73B	LSU	1	1	2	2	One required per system if protection LIUs are used
AUA114	CFU	2	2	2	2	
AUA115	LFU	1	1	1	1	Optional; required only if LIUs are used to power T1 repeater from the RT
AUB25	CTU	1	1	1	1	
AUB26	ADU	1	1	2	2	
MC97756A1	BCU	1	1	2	2	

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RT Feature Packages Common Unit Requirements (Continued)

Feature Package F The following table assumes the standard digroup growth pattern and provides information on current production common units required for RT Feature Package F.

Order Wording	Description	Quantity Required per Lines Equipped				Comments
		48	96	144	192	
AUA11C	PCU	2	3	4	5	
AUA18	DTU-L	1	1	1	1	Optional; if used this unit requires an AUA19 DTU-R (see unit description)
AUA19	DTU-R	1	1	1	1	Optional; if used this unit requires an AUA18 DTU-L (see unit description)
AUA24	FCU	1	1	2	2	
AUA61D <i>or</i>	LIU-ORB	3	5	8	10	LIU quantities include one unit per bank for protection line
AUA62F <i>or</i>	LIU-PWR	3	5	8	10	
AUA64F	LIU-Loop	3	5	8	10	
AUA73B	LSU	1	1	2	2	One required per system if protection LIUs are used (see unit description)
AUA105	TRU	1	2	3	4	
AUA114	CFU	2	2	2	2	
AUA115	LFU	1	1	1	1	Optional; required only if LIUs are used to power T1 repeater from the RT
AUB22 <i>or</i>	CTU	1	1	1	1	Use for PGTC testing
AUB25	CTU	1	1	1	1	Use for XTC testing
AUB27 <i>or</i>	ADU	1	1	2	2	Rated DA; replaced by AUB27B
AUB27B	ADU	1	1	2	2	
MC97779A1	BCU	1	1	2	2	Requires MC97755A1 Series 2 BCU and AUB6 ADU at COT

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RT Feature Packages Common Unit Requirements (Continued)

RT DCB equipped with INA-RT The following table assumes the standard digroup growth pattern and provides information on current production common units required for RT DCB equipped with INA-RT.

Order Wording	Description	Quantity Required per Lines Equipped				Comments
		48	96	144	192	
AUA11C	PCU	2	3	4	5	
AUA18	DTU-L	1	1	1	1	Optional; if used this unit requires an AUA19 DTU-R (see unit description)
AUA19	DTU-R	1	1	1	1	Optional; if used this unit requires an AUA18 DTU-L (see unit description)
AUA21B	TRU	1	2	3	4	
AUA24	FCU	1	1	2	2	
AUA61D <i>or</i>	LIU-ORB	2[1]	4[2]	6[3]	8[4]	LIU quantities in [] are for
AUA62F <i>or</i>	LIU-PWR	2[1]	4[2]	6[3]	8[4]	Mode III operation only
AUA64F	LIU-Loop	2[1]	4[2]	6[3]	8[4]	
AUA71	TCU	1	2	3	4	Required only for Mode III operation
AUA114	CFU	2	2	2	2	
AUA115	LFU	1	1	1	1	Optional; required only if LIUs are used to power T1 repeater from the RT
AUB22 <i>or</i>	CTU	1	1	1	1	Use for PGTC testing
AUB25	CTU	1	1	1	1	Use for XTC testing
AUB27 <i>or</i>	ADU	1	1	2	2	Rated DA; replaced by AUB27B
AUB27B	ADU	1	1	2	2	
MC97769A1	BCU	1	1	2	2	

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RT Common Unit Descriptions and Specifications

Introduction



NOTE:

This section contains comcode and *COMMON LANGUAGE*^{*} *CLEI* code information, if available. If a discrepancy exists between a comcode or *COMMON LANGUAGE CLEI* code listed in this section and Appendix 1, "Quick Reference Ordering Guide," use the information with the latest publication date.

This section does not include the following units that are considered *common* in an RT environment. See Chapter 11, "Turnup, Test, and Maintenance Equipment," for information on ordering the following units:

- AUA78 fault locating test adapter (FLTA)
- AUA80 line test adapter (LTA)
- 47B test extender
- 52A extender
- 505A test adapter
- 950A test set.

List of common units and specifications

The following table provides a list of the common units along with a description, comcode, *COMMON LANGUAGE CLEI* code, feature package usage, quantity required per lines equipped, and data sheet number.

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RT Common Unit Descriptions and Specifications (Continued)

List of common unit descriptions and specifications (continued)

Code	Description	Comcode	COMMON LANGUAGE* CLEI Code	Feature Package	Quantity per Lines Equipped	Data Sheet
AUA11C	Power converter unit (PCU)	105728042	5SCD4J2AAB	303, A, B, C, D, F, INA-RT, FPC/AC	2/48, 3/96, 4/144, 5/192	363-005-204
AUA18	Digital test unit-left (DTU-L)	103840336	5SCDA00AXX	303, B (w/SS), C, FPC/AC, D, INA-RT	1/48, 1/96, 1/144, 1/192	363-005-206
AUA19	Digital test unit-right (DTU-R)	103840344	5SCDB00AXX	303, B (w/SS), C, FPC/AC, D, INA-RT	1/48, 1/96, 1/144, 1/192	363-005-207
AUA21B	Transmit/receive unit (TRU)	105710255	5SCS309AXX	A, C, D, INA-RT	1/48, 2/96, 3/144, 4/192	363-005-162
AUA22B	Transmit/receive unit (TRU)	105710263	5SCSM09AXX	B	2/48, 2/96, 4/144, 4/192	363-005-163
AUA24	Fan control unit (FCU)	103840401	5SCD500AXX	303 A, B, C, D, F, INA-RT, FPC/AC	3/48, 3-5/96, 6-8/144, 6-10/192 2/48, 3/96, 5/144, 6/192	363-005-205

See footnote at end of table.

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RT Common Unit Descriptions and Specifications (Continued)

List of common unit descriptions and specifications (continued)

Code	Description	Comcode	COMMON LANGUAGE CLEI Code	Feature Package	Quantity per Lines Equipped	Data Sheet
AUA61D	Line interface unit (LIU)	105703946	5SLI1A4AAB	303	3/48, 3-5/96, 6-8/144, 6-10/192	363-005-150
				A, B (Mode 1), C, FPC/AC, F	3/48, 5/96, 8/144, 10/192	
				B (Mode 2), D	2/48, 3/96, 5/144, 6/192	
				INA-RT Mode I	2/48, 4/96, 6/144, 8/192	
				INA-RT Mode II	1/48, 2/96, 3/144, 4/192	
AUA62F	Line interface unit (LIU)	106314305	5SLI129AAB	303	3/48, 3-5/96, 6-8/144, 6-10/192	363-005-151
				A, B (Mode 1), C, FPC/AC, F	3/48, 5/96, 8/144, 10/192	
				B (Mode 2), D	2/48, 3/96, 5/144, 6/192	
				INA-RT Mode I	2/48, 4/96, 6/144, 8/192	
				INA-RT Mode II	1/48, 2/96, 3/144, 4/192	

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RT Common Unit Descriptions and Specifications (Continued)

List of common unit descriptions and specifications (continued)

Code	Description	Comcode	COMMON LANGUAGE CLEI Code	Feature Package	Quantity per Lines Equipped	Data Sheet
AUA64F	Line interface unit (LIU)	106313802	5SLI149AAC	303	3/48, 3-5/96, 6-8/144, 6-10/192	363-005-152
				A, B (Mode 1), C, FPC/AC, F	3/48, 5/96, 8/144, 10/192	
				B (Mode 2), D	2/48, 3/96, 5/144, 6/192	
				INA-RT Mode I	2/48, 4/96, 6/144, 8/192	
				INA-RT Mode II	1/48, 2/96, 3/144, 4/192	
AUA71	Transcoder unit (TCU)	103840922	5SLI280AXX	D, INA-RT	1/48, 2/96, 3/144, 4/192	363-005-164
AUA73B	Line switch unit (LSU)	105710271	5SCS159AXX	A, C, D, FPC/AC	1/48, 2/96, 3/144, 4/192	363-005-165
AUA74	Line switch unit (LSU)	103840955	5SPQABCAAA	303	1/48, 2/96, 3/144, 4/192	363-005-196
AUA105B	Transmit/receive unit (TRU)	106972094	5SPQABUAAA	B, FPC/AC	2/48, 2/96, 4/144, 4/192	363-005-167
AUA109	Transmit/receive unit (TRU)	105711626	5SCS30AAAB	B, FPC/AC	2/48, 2/96, 4/144, 4/192	363-005-168
AUA112	Transmit/receive unit (TRU)	106016546	5SCS3G0AAA	303	2/48, 2/96, 4/144, 4/192	363-005-158

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RT Common Unit Descriptions and Specifications (Continued)

List of common unit descriptions and specifications (continued)

Code	Description	Comcode	COMMON LANGUAGE CLEI Code	Feature Package	Quantity per Lines Equipped	Data Sheet
AUA112B ^{NEW}	Transmit/receive unit (TRU)	107887325	5SC4NRNAAA	303	2/48, 2/96, 4/144, 4/192	363-005-158
AUA114	Channel fuse unit (CFU)	106018088	5SCB4B0CAA	303, A, B, C, D, INA-RT, FPC/AC	2/48, 2/96, 2/144, 2/192	363-005-228
AUA115	Line fuse unit (LFU)	106018096	5SCB5B0CAA	303, A, B, C, D, INA-RT, FPC/AC	1/48, 1/96, 1/144, 1/192	363-005-229
AUB22	Channel test unit (CTU)	105710263	5SCSM09AAA	303, A, B, C, D, INA-RT, FPC/AC	1/48, 1/96, 1/144, 1/192	363-005-199
AUB24	Alarm display unit (ADU)	103841201	5SCSB00BXX	B	1/48, 1/96, 2/144, 2/192	363-005-185
AUB25	Channel test unit (CTU)	103841219	5SCD210BXX	303, A, B, C, D, INA-RT, FPC/AC	1/48, 1/96, 1/144, 1/192	363-005-210
AUB26	Alarm display unit (ADU)	103841227	5SCSA00BXX	A, C, D	1/48, 1/96, 2/144, 2/192	363-005-187
AUB27B	Alarm display unit (ADU)	106894116	5SPQABMAA	303, B (w/ SS), INA-RT, FPC/AC	1/48, 1/96, 2/144, 2/192	363-005-190
MC97756A1	Bank control unit (BCU)	105517528	5SCSG67CXX	A, C, D	1/48, 1/96, 2/144, 2/192	363-005-181
MC97769A1	Bank control unit (BCU)	105585368	5SXTA10BXX	INA-RT	1/48, 1/96, 2/144, 2/192	363-005-182

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RT Common Unit Descriptions and Specifications (Continued)

List of common unit descriptions and specifications (continued)

<u>Code</u>	<u>Description</u>	<u>Comcode</u>	<u>COMMON LANGUAGE CLEI Code</u>	<u>Feature Package</u>	<u>Quantity per Lines Equipped</u>	<u>Data Sheet</u>
MC97776A1B	Bank control unit (BCU)	106972482	5SPQABTAAA	B, FPC/AC	1/48, 1/96, 2/144, 2/192	363-005-173
MC97777A1	Bank control unit (BCU)	106499635	5SPQABAAA	303	1/48, 1/96, 2/144, 2/192	363-005-195
MC97796A1 ^{NEW}	Bank control unit (BCU)	107860751	5SPQADZAAA	303	1/48, 1/96, 2/144, 2/192	363-005-257
MC97779A1	Bank control unit (BCU)	106486087	5STXA04BAA	F	1/48, 1/96, 2/144, 2/192	363-005-173

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RT Common Unit Descriptions and Specifications (Continued)

List of common unit descriptions

This section contains an alphanumeric listing and description of the common circuit packs required for preparing a *SLC* Series 5 Carrier System RT to accept channel units.

AUA11C

The AUA11C is used in the digroup and facility shelves of the RT to convert a signal grade -48 V DC input to $+5$ and -5 V DC outputs needed by the channel unit circuit packs. The AUA11C is also used in the optical power shelf for Fiber in the Loop (FITL) applications. The AUA11C replaces the AUA11 and AUA11B (rated DA) and is fully backward compatible with the previously manufactured units.

AUA18

The AUA18 is one half of the *SLC* Series 5 Carrier System digital test unit (DTU). The AUA18 is designated as the left unit and occupies a slot near the center of the facility shelf designated DTU-L. The AUA18 provides the interface for the craft interface unit (CIU) to obtain access to the 4-MHz bit stream between the transmit/receiver units (TRUs) and the channel units. See Chapter 8, "Craft Interface Unit," of this document for CIU ordering information. This unit must be installed with an AUA19.

AUA19

The AUA19 is one half of the *SLC* Series 5 Carrier System DTU. The AUA19 is designated as the right unit and occupies a slot near the center of the facility shelf designated DTU-R. The AUA19 provides the interface for the CIU to obtain access to the 4-MHz bit stream between the TRUs and the channel units. See Chapter 8, "Craft Interface Unit," of this document for CIU ordering information. This unit must be installed with an AUA18.

AUA21B

The AUA21B is used at the RT to provide the interface between shelves A/B or C/D and the digital facility interface [line interface units (LIUs) or transcoder unit (TCU) and line switch unit (LSU)].

AUA22B

The AUA22B is used at the RT to provide the interface between shelves A/B or C/D and the digital facility interface [line interface units (LIUs) or transcoder unit (TCU) and line switch unit (LSU)]. The AUA22B generates the D1D channel polling sequence and is intended only for Mode 96 RTs.

(Continued on next page)

RT Common Unit Descriptions and Specifications (Continued)

List of common unit descriptions (continued)

AUA24

The AUA24 controls the application of power to the cooling fans (2-type) mounted directly above and below an RT dual channel bank.

AUA61D

The AUA61D (DS1) LIU is used at the RT (or COT) to provide the interface between a Series 5 system and the DSX-1 cross-connect. The AUA61D replaces all AUA61, AUA61B, and AUA61C LIUs. FP303 requires AUA61C or AUA61D LIUs.

AUA62F

The AUA62F (line powering) LIU is used at the RT (or COT) to provide a direct interface for the Series 5 system and a T1 line. The AUA62F provides line power to T1 repeaters connecting the COT and RT. The AUA62F replaces all AUA62, AUA62B, AUA62C, and AUA62D LIUs. FP303 requires AUA62C, AUA62D, or AUA62F LIUs.

AUA64F

The AUA64F (power looping) LIU is used at the RT (or COT) to provide a direct interface for the Series 5 system and a T1 line. The AUA64F typically used at the RT to loop received line powering current back to the COT. The AUA64F can be used at the COT if needed in a particular installation. The AUA64F replaces all AUA64, AUA64B, AUA64C, and AUA64D LIUs. FP303 requires AUA64C, AUA64D, or AUA64F LIUs.

AUA71

The AUA71 is installed in the facility shelf in position LIU-B and/or LIU-D (blue or white), as required. The LIU units for digroups B and D are not required for FPD (LBRV) operation. The AUA71 is only required for INA-RT when arranged for Mode III operation.

AUA73B

The AUA73B is an optional unit. One line switch unit (LSU) is required for each independent white or blue system being equipped with a protection LIU. No LSU is required for INA-RT systems or when protection LIUs are not provided.

(Continued on next page)

RT Common Unit Descriptions and Specifications (Continued)

List of common unit descriptions (continued)

AUA74

The AUA74 line switch unit (LSU) DS1 interface is used in the *SLC* Series 5 Carrier System FP303 remote terminal (RT). The AUA74 LSU provides an optional 4/3/2:1 facility line switching capability for the DS1 line interface units (LIUs) (C series and later) and supports the facility protection line switching requirements for the TR-303 standard.

AUA105

This unit has been rated discontinued availability and is replaced by the AUA105B.

AUA105B

The AUA105B transmit/receive unit (TRU) provides the interface between two digroups of channel units and the digital facility interface. The AUA105B also provides an interface to the digital test unit [(DTU) AUA18/AUA19] if installed in the bank. The TRU synchronizes all units serving a 48-channel shelf to the DS1 signal. The AUA105B may be used for Mode 1 or Mode 2 operation. However, the AUA105B must be used to provide 2:1 concentration for FPB Mode 2 operation. The AUA105B provides *SLC* 96 Carrier System time assignment unit (TAU) functions to concentrate a dual digroup (48 channels) of channel units to a single DS1 facility, serving 24 channels.

AUA109

The AUA109 transmit/receive unit (TRU) provides the interface between two digroups of channel units and the digital facility interface. The AUA109 also provides an interface to the digital test unit [(DTU) AUA18/AUA19] if installed in the bank. The TRU synchronizes all units serving a 48-channel shelf to the DS1 signal. The AUA109 cannot be used for FPB Mode 2 operation.

(Continued on next page)

RT Common Unit Descriptions and Specifications (Continued)

List of common unit descriptions (continued)

AUA112/AUA112B^{NEW}

The AUA112/AUA112B transmit/receive unit (TRU) is used in the FP303 RT to provide the interface between all four digroups of channel units and the digital interface. The AUA112/AUA112B TRU also provides an interface to the AUA18 digital test unit - left (DTU-L)/AUA19 DTU-R if it is installed in the bank. A 993A connector assembly (COMCODE 106196215) is required to interconnect two AUA112/AUA112B TRUs in an FP303 system. A minimum of two AUA112/AUA112B TRUs are required (one for the A/B and C/D shelves). Two interconnected TRUs provide full access to any DS0 time slot on any DS1 facility within one system. The TRUs also support the multiplexing of four 16 kb/s D-channels into a single DS0 for ISDN applications.

AUA114

The AUA114 provides 20-Hz ringing protection and -48 V DC protection to the A/B and C/D channel unit digroups. The AUA114 also provides -48 V DC protection to the common units in each channel bank. The AUA114 has replaced the 39E channel fuse unit (CFU). The AUA114 contains 5 replaceable WP90247-type indicator fuses. (See the section entitled "Common Unit Miscellaneous Equipment" for information on replacement and spare fuses.)

After RT acceptance tests are completed, the AUA114 may be removed from the white bank if the white bank is not equipped for service.

AUA115

The AUA115 provides -48 V DC protection for LIUs corresponding to channel unit digroups A/B and C/D (white), A/B and C/D (blue), and to protection LIUs. The AUA115 contains 5 replaceable WP90247-type indicator fuses. The AUA115 has replaced the 39F line fuse unit (LFU). (See the section entitled "Common Unit Miscellaneous Equipment" for information on replacement and spare fuses.)

(Continued on next page)

RT Common Unit Descriptions and Specifications (Continued)

List of common unit descriptions (continued)

AUB22

The AUB22 channel test unit (CTU) works with the COT CTU [AUB2 (rated DA) or AUB2B] to give the remote test center metallic access to the customer drop (beyond the RT). During a channel test, the AUB22 provides on-hook, reflective, reflective with tip party identification (TPI), and absorptive with TPI terminations to the channel units. The combination of the COT and RT CTUs allows the pair gain test controller (PGTC) to test the derived channel between the COT and RT.

AUB24

The AUB24 alarm display unit (ADU) provides a serial interface to the other circuit packs in the bank. Together, the AUB24 and the bank control unit [MC97724A1 (rated DA), MC97771A1 (rated DA), MC97776A1 (rated DA), or MC97776A1B] form the bank controller for the *SLC* Series 5 Carrier System FPB (Mode 96) RT channel bank.

AUB25



NOTE:

For proper operation of an RT equipped with FPB and employing the MC97724A1 (rated DA) bank control unit (BCU), order/use the AUB22 CTU. Order the AUB25 for an RT equipped with FPB employing the MC97771A1 (rated DA), MC97776A1 (rated DA), or MC97776A1B BCU and appropriate ADUs, TRUs, and LIUs. Refer to the previous table that contains the common unit requirements for Feature Package B.

The AUB25 CTU provides the external interface for the craft interface unit (CIU) to obtain metallic or digital test access on a channel unit [actual digital test access is provided by the digital test unit (DTU)]. Using the bank controller firmware and the extended test controller (XTC), the AUB25 provides the necessary terminations and signaling required for the XTC to test all channel units in an RT DCB.

(Continued on next page)

RT Common Unit Descriptions and Specifications (Continued)

List of common unit descriptions (continued)

AUB26

The AUB26 alarm display unit (ADU) provides a serial interface to the other circuit packs in the bank. The AUB26 also has inputs to detect failures in the RT common equipment. Together, the AUB26 and the bank control unit [MC97726A1 (rated DA), MC97756A1, or MC97769A1] form the bank controller for a *SLC* Series Carrier System 5 RT equipped with FPA, FPC, or INA-RT, respectively.

AUB27^{DA}

This unit has been rated discontinued availability and is replaced by the AUB27B.

AUB27B

The AUB27B alarm display unit (ADU) provides a serial interface to the other circuit packs in the bank. The AUB27B also has inputs to detect failures in the RT common equipment. Together, the AUB27B ADU and the MC97771A1 (rated DA), MC97776A1 (rated DA), or MC97776A1B BCU form the bank controller for a *SLC* Series 5 Carrier System RT equipped with FPB (with special services) or FPC/AC. The AUB27B ADU and MC97769A1 BCU form the bank controller for a Series 5 RT equipped with INA-RT. The AUB27B ADU and MC97796A1 BCU form the bank controller for a Series 5 RT equipped with FP303.

MC97724A1^{DA}

This unit has been rated discontinued availability and is replaced by the MC97771A1 (rated DA), MC97776A1 (rated DA), or MC97776A1B.

MC97756A1

The MC97756A1 BCU and the ADU (select ADU for desired Feature Package) form what is commonly referred to as the bank controller for a Series 5 96-line system. The bank controller provides the following:

- Internal performance monitoring and fault diagnosis
- Craft inputs for channel unit option settings using the CIU
- Craft inputs for system options
- Controls per-line demand testing using the XTC or PGTC
- T1 protection switching.

(Continued on next page)

RT Common Unit Descriptions and Specifications (Continued)

List of common unit descriptions (continued)

MC97769A1

The MC97769A1 BCU is used with the AUB27 (rated DA) or AUB27B ADU to form the bank controller for *SLC* Series 5 Carrier System INA-RT bank. This bank controller provides the following functions:

- Internal performance monitoring and fault diagnosis
- Alarm outputs
- Craft inputs for option, alarm cut-off, and bank identification
- Channel unit provisioning coefficients using the CIU.

MC97771A1^{DA}

This unit has been rated DA and is replaced by the MC97776A1 (rated DA) or MC97776A1B.

MC97776A1^{DA}

This unit has been rated discontinued availability and is replaced by the MC97776A1B.

MC97776A1B

The MC97776A1B and ADU form what is commonly referred to as the bank controller for a Series 5 96-line system. The bank controller provides the following:

- Internal performance monitoring and fault diagnosis
- Switches for system options and system identification
- Memory for channel unit provisioning coefficients
- Controls per-line demand testing using the XTC or PGTC
- T1 protection switching.

The MC97776A1B BCU provides all of the same functions as the MC97724A1 (rated DA), MC97776A1 (rated DA), and MC97771A1 (rated DA).

(Continued on next page)

RT Common Unit Descriptions and Specifications (Continued)

List of common unit descriptions (continued)

MC97777A1

The MC97777A1 bank control unit (BCU) is used in the *SLC* Series 5 Carrier System FP303 remote terminal (RT) — the firmware for the MC97777A1 BCU is specifically designed for RT applications. Together, the MC97777A1 and AUB27B ADU form what is commonly referred to as the bank controller for a Series 5 96-line system. The bank controller provides the following functions:

- Internal performance monitoring and fault diagnosis
- Memory for channel unit provisioning coefficients
- Controls per-line demand testing using the XTC (PGTC mode) or PGTC
- T1 protection switching (in conjunction with AUA74 LSU)
- Embedded operations channel (EOC) and protection switching
- TR-303 EOC ASN.1 message support.

The MC97777A1 BCU used at the RT communicates alarm testing and other information using the EOC. Active and standby EOC channels are carried in time slot 12 of the A and C digroup.

MC97796A1^{NEW}

The MC97796A1 bank control unit (BCU) is used in the *SLC* Series 5 Carrier System FP303 remote terminal (RT) — the firmware for the MC97796A1 BCU is specifically designed for RT applications. Together, the MC97796A1 and AUB27B ADU form what is commonly referred to as the bank controller for a Series 5 96-line system. The bank controller provides the following functions:

- Internal performance monitoring and fault diagnosis
- Memory for channel unit provisioning coefficients
- Controls per-line demand testing using the XTC (PGTC mode) or PGTC
- T1 protection switching (in conjunction with AUA74 LSU)
- Embedded operations channel (EOC) and protection switching
- TR-303 EOC ASN.1 CMIP-91 message support.

The MC97796A1 BCU used at the RT communicates alarm testing and other information using the EOC. Active and standby EOC channels are carried in time slot 12 of the A and C digroup.

(Continued on next page)

RT Common Unit Descriptions and Specifications (Continued)

List of common unit descriptions (continued)

MC97779A1

The MC97779A1 BCU is used in a *SLC* Series 5 Carrier System RT arranged for FPF. Together, the AUB27B ADU and the MC97779A1 BCU perform the bank controller functions for an RT system supporting an FITL MSDT.

Common Unit Miscellaneous Equipment

Introduction

This section lists miscellaneous equipment which is needed to maintain and protect Series 5 RT common circuit packs.

993A TRU connector assembly

Order this faceplate connector assembly to interconnect two AUA112/AUA112B TRUs for an FP303 system. Two AUA112B TRUs are required (one each for the A/B and C/D shelves).

Comcode 106196215

Guardian circuit pack carrying cases



NOTE:

The Guardian carrying case has also been designed for other equipment families such as the DDM-1000/2000 multiplexers and *SLC* 96 Carrier Systems. If you need additional information or drawings, contact your local Lucent Technologies Account Executive.

Order this set of two custom-made carrying cases to protect your spare Series 5 circuit packs (common and channel units). This rugged set of cases has *faceplate up* storage, card guides, internal padding, and a schematic to keep needed spares well organized and fully protected. The Guardian comes complete with a ground cord, wrist strap, and a grounded working surface.

Comcode 406349795

Label assembly

One set of spare or replacement strips is used to correctly label the DCB counting sequence associated with INA-RT Mode I and Mode III. One label assembly is included with each MC97769A1 BCU.

Comcode 846309011

Spare fuse kit

Order this spare fuse kit to receive three 80G (0.5 amp) and four 80C (3.0 amp) fuses needed to maintain the 39E CFU which has been rated DA.

Comcode 845047448

(Continued on next page)

Common Unit Descriptions and Specifications (Continued)

Spare fuse kit Order this spare fuse kit to receive six 80C (3.0 amp) fuses needed to maintain the 39F LFU which has been rated DA.
Comcode 845047455

WP-90247, L()  **NOTE:**
Orders for replacement and spare fuses or a fuse tool per WP-90247, L() may be made by telephone, mail, or fax. To purchase directly, contact:

SAN-O Industrial Corporation
91-3 Colin Drive
Holbrook, NY 11741

Telephone No. 516-472-6666

Fax No. 516-472-6777

WP-90247, L103 fuse Order this assembly to provide a package of 5 fuses (0.5 amp) for the AUA114 CFU. Two WP-90247, L103 fuses are required per CFU.
Comcode 406203182

WP-90247, L110 fuse Order this assembly to provide a package of 5 fuses (3.0 amp) for the AUA114 CFU or AUA115 LFU. Three WP-90247, L110 fuses are required per CFU. Five WP-90247, L110 fuses are required per AUA115 LFU.
Comcode 406204230

WP-90247, L201 tool Order this item to receive an insertion/extraction tool for WP-90247, L() fuses.
Comcode 406420273

Related Documentation

**RT common circuit
pack
documentation**

The following table lists Lucent Technologies documentation where additional information may be found concerning RT common circuit packs. To order one or more of the following documents, refer to the "About This Document" section of this document.

Document	Title
Data Sheet 363-005-150	<i>AUA61D Circuit Pack</i>
Data Sheet 363-005-151	<i>AUA62F Circuit Pack</i>
Data Sheet 363-005-152	<i>AUA64F Circuit Pack</i>
Data Sheet 363-005-158	<i>AUA112/AUA112B Circuit Pack</i>
Data Sheet 363-005-162	<i>AUA21B Circuit Pack</i>
Data Sheet 363-005-163	<i>AUA22B Circuit Pack</i>
Data Sheet 363-005-164	<i>AUA71 Circuit Pack</i>
Data Sheet 363-005-165	<i>AUA73B Circuit Pack</i>
Data Sheet 363-005-167	<i>AUA105B Circuit Pack</i>
Data Sheet 363-005-168	<i>AUA109 Circuit Pack</i>
Data Sheet 363-005-171	<i>MC97779A1 Circuit Pack</i>
Data Sheet 363-005-172	<i>MC97771A1 Circuit Pack</i>
Data Sheet 363-005-173	<i>MC97776A1B Circuit Pack</i>
Data Sheet 363-005-177	<i>MC97724A1 Circuit Pack</i>
Data Sheet 363-005-181	<i>MC97756A1 Circuit Pack</i>
Data Sheet 363-005-182	<i>MC97769A1 Circuit Pack</i>
Data Sheet 363-005-185	<i>AUB24 Circuit Pack</i>
Data Sheet 363-005-187	<i>AUB26 Circuit Pack</i>
Data Sheet 363-005-190	<i>AUB27B Circuit Pack</i>
Data Sheet 363-005-195	<i>MC97777A1 Circuit Pack</i>
Data Sheet 363-005-257	<i>MC97796A1 Circuit Pack</i>
Data Sheet 363-005-196	<i>AUA74 Circuit Pack</i>

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Related Documentation (Continued)

RT common circuit
pack
documentation
(continued)

Document	Title
Data Sheet 363-005-199	<i>AUB22 Circuit Pack</i>
Data Sheet 363-005-201	<i>AUB25 Circuit Pack</i>
Data Sheet 363-005-204	<i>AUA11C Circuit Pack</i>
Data Sheet 363-005-205	<i>AUA24 Circuit Pack</i>
Data Sheet 363-005-206	<i>AUA18 Circuit Pack</i>
Data Sheet 363-005-207	<i>AUA19 Circuit Pack</i>
Data Sheet 363-005-228	<i>AUA114 CFU Circuit Pack</i>
Data Sheet 363-005-229	<i>AUA115 LFU Circuit Pack</i>
363-099-123IR	<i>SLC® Series 5 Carrier System, Information Release Dual Channel Banks with Mixed Feature Packages</i>
363-205-001	<i>Fiber To The Home, Information Guide</i>
363-205-104	<i>SLC® Series 5 Carrier System, Integrated Network Access-Remote Terminal, User's Manual</i>
363-205-401	<i>RT Acceptance and Turn-Up</i>
363-205-010	<i>SLC Series 5 Carrier System, Applications and Planning Guide</i>
CD-7C117-01 & -02	<i>RT Bank Circuit Description</i>
CD-7C118-01 & -02	<i>RT Bay Circuit Description</i>
SD-7C117-01 & -02	<i>RT Bank Schematic Drawing</i>
SD-7C118-01 & -02	<i>RT Bay Schematic Drawing</i>

RT Channel Unit Circuit Packs

Overview

General

This subsection provides ordering information for channel unit (CU) circuit packs available for use in *SLC* Series 5 Carrier System RT dual channel banks (DCBs). For proper operation, the CUs ordered must be compatible with the feature package arrangement provided by the associated common circuit packs. A Series 5 DCB can accept a maximum of 96 CU circuit packs (48 per 96-line system).

RT Channel Unit Descriptions and Specifications

Introduction



NOTE:

This section contains comcode and *COMMON LANGUAGE CLEI* code information, if available. If a discrepancy exists between a comcode or *COMMON LANGUAGE CLEI* code listed in this section and Appendix 1, "Quick Reference Ordering Guide," use the information with the latest publication date.

This section contains an alphanumeric listing and description of the channel units that provide service in a *SLC* Series 5 Carrier System RT.

A condensed listing of channel units (including all pertinent ordering codes) is located in Appendix 1 of this document. Unless otherwise specified, all codes listed in this section have a rating of general availability.

List of channel units and specifications

The following table provides a list of the channel units along with a description, comcode, *COMMON LANGUAGE CLEI* code, feature package usage, quantity required per lines equipped, and data sheet number.

(Continued on next page)

RT Channel Unit Descriptions and Specifications (Continued)

List of channel units and specifications (continued)

Code	Description	Comcode	COMMON LANGUAGE* CLEI Code	Feature Package	Quantity per 98 Line System	Data Sheet
AUA25B	M SPOTS®CU	105710289	5SCURP8AXX	303, A, B, C, D, FPC/AC	48	363-005-124
AUA27	BASE-10, POTS CU	103840435	5SC1DD1AAB	A, C, D, FPC/AC	48	363-005-128
AUA41	4-wire special services CU	106064876	5SCU7D1AAB	B, C, D, FPC/AC, INA-RT	48	363-005-105
AUA42	2-wire E SPOTS CU	103840609	5SCU690AXX	B, C, D, FPC/AC, INA-RT	48	363-005-106
AUA43	2-wire E SPOTS CU	105478713	5SCU6A6AXX	B, C, D, FPC/AC, INA-RT	48	363-005-107
AUA44	4-wire special services CU	105678171	5SCU7C6AAC	B, C, D, FPC/AC, INA-RT	48	363-005-108
AUA45B	Dual ringing repeater CU	105717987	5SCUJ5AAXX	B, C, D, FPC/AC, INA-RT	48	363-005-123
AUA52B	OCU dataport CU	106244163	5SC1430AAA	B, C, D, FPC/AC, INA-RT	48	363-005-111

See footnotes at end of table.

(Continued on next page)

RT Channel Unit Descriptions and Specifications (Continued)

List of channel units and specifications (continued)

Code	Description	Comcode	COMMON LANGUAGE CLEI Code	Feature Package	Quantity per 98 Line System	Data Sheet
AUA53	Coin CU	106210396	5SCU261AAA	303, A, B, C, D, FPC/AC	48	363-005-112
AUA54	4-wire special services CU	103840732	5SCU7B0AXX	B, C, D, FPC/AC, INA-RT	48	363-005-113
AUA55B	Multiparty CU	105722573	5SCU578AXX	B, C, D, FPC/AC, INA-RT	48	363-005-116
AUA56	Direct-inward dialing (DID) 2-wire CU	103840757	5SCU9E0AXX	303, A, B, C, D, FPC/AC, INA-RT	48	363-005-115
AUA57	Frequency-selective ringing (FSR) CU	103840765	5SCUT04AXX	303, A, B, C, D, FPC/AC	48	363-005-122
AUA58B	POTS CU	105710297	5SCU1H8AXX	303, A, B, C, D, FPC/AC	48	363-005-117
AUA75	2-wire point-to-point (PLAR) CU	103840963	5sC1FF2AXX	B, C, D, FPC/AC, INA-RT	48	363-005-132

(Continued on next page)

RT Channel Unit Descriptions and Specifications (Continued)

List of channel units and specifications (continued)

Code	Description	Comcode	COMMON LANGUAGE CLEI Code	Feature Package	Quantity per 98 Line System	Data Sheet
AUA90	T-basic rate interface transmission extension (T-BRITE) CU	104043823	5SC1EE0AXX	B, INA-RT	†	363-005-129
AUA93	Basic rate interface transmission extension (BRITE) CU	104043856	5SC1HE0AXX	B	‡	363-005-131
AUA94	BRITE CU	104043864	5SC18E0AA	303	‡	363-005-135
AUA150	POTS/SPOTS CU	106018500	5SCU1LVAAA	303, A, B, C, D, FPC/AC	48	363-005-133
AUA158B	POTS CU	106903388	5SC1WW0AAA	303, A, B, C, D, FPC/AC	48	363-005-303
AUA159B	SPOTS CU	106903396	5SC1W09AAA	303, A, B, C, D, FPC/AC	48	363-005-304
AUA179	ALIC-5 CU	106856776	5SC1HW9AAA	B	48	363-005-311
AUA400	POTS SC2DSO CU	104432851	5SCF410CXX	B, C, FPC/AC	48	363-005-260
AUA401	POTS SC4DSO CU	104432869	5SCF420CXX	B, C, FPC/AC	24	363-005-261
AUA404	POTS SC2DSO CU	104433115	5SCF41BCAA	B, C, FPC/AC	48	363-005-267
AUA405	POTS SC4DSO CU	104447941	5SCF42BCAA	B, C, FPC/AC	24	363-005-268

See footnotes at end of table.

(Continued on next page)

RT Channel Unit Descriptions and Specifications (Continued)

List of channel units and specifications (continued)

<u>Code</u>	<u>Description</u>	<u>Comcode</u>	<u>COMMON LANGUAGE CLEI Code</u>	<u>Feature Package</u>	<u>Quantity per 98 Line System</u>	<u>Data Sheet</u>
AUA406	6-24DS0 CU	105516447	5SCF660EAA	B, C, FPC/AC	16	363-005-273
AUA408	6-24DS0 CU	106275662	SAIUMB0AAA	B, C, FPC/AC	16	363-005-274

* COMMON LANGUAGE is a registered trademark and CLEI, CLLI, CLCI, and CLFI are trademarks of Bell Communications Research, Inc.

† Refer to 363-205-105 and 363-205-106 for restrictions.

‡ Refer to 363-205-104 and 363-205-106 for restrictions.

RT Channel Unit Descriptions and Specifications (Continued)

List of channel unit descriptions

This section contains an alphanumeric listing and description of the channel units required to provide service from a *SLC* Series 5 Carrier System RT.

AUA25B

The AUA25B provides two channels of service and is always located at the RT. The AUA25B is designed for 2-wire POTS and *SPOTS*[®] channel unit applications with short loops. The AUA25B provides a voice-frequency interface with a structural impedance of 600 ohms in series with 2.15 μ F. The transmission and receive insertion losses are both 2 dB. The AUA25B furnishes a current feed interface to the customer loop.

AUA27

The AUA27 provides two channels of service and is always located at the RT. The AUA27 is designed for 2-wire, single-party POTS applications with derived channel alarm service. The AUA27 provides a voice-frequency interface with a structural impedance of 900 ohms in series with 2.15 μ F. When terminated with an AUA26 (at the COT), the AUA27 provides an end-to-end loss of 1 dB in both directions. The AUA27 provides a loop-start interface to a customer station. The loop current varies from 30 to 20 mA for loops ranging from 0 to 900 ohms.

AUA41()

The AUA41 4-wire channel unit is intended for use in nonlocally-switched, ground-start and loop-start special services, nonswitched private lines, and private branch exchange (PBX) tie trunks. The AUA41 provides one channel of service and can function in any of the following modes:

- FX-Station End (4FXS)
- Duplex (4DX)
- Transmission Only (4TO)
- Equalized Transmission Only (4ETO).

(Continued on next page)

RT Channel Unit Descriptions and Specifications (Continued)

List of channel unit descriptions (continued)

AUA42()

The AUA42 is used for 2-wire, nonlocally-switched, ground-start and loop-start special services, 2-wire, nonswitched private lines, and DID trunks. The unit may also be used in locally-switched services. The AUA42 is a current sink unit that provides two channels of service. Each channel can be used independently of the other to provide any of the following functions:

- Foreign Exchange - Office End (FXO)
- Dial Pulse Terminate [(DPT) is typically located at RT]
- Transmission Only (TO).

AUA43

The AUA43 is used for 2-wire, nonlocally-switched, ground-start and loop-start special services, 2-wire, nonswitched private lines, and DID trunks. The unit may also be used in locally-switched services. The AUA43 is a current feed unit that provides two channels of service. Each channel can be used independently of the other to provide any of the following functions:

- FXS
- Dial Pulse Originate (DPO)
- TO.

AUA44

The AUA44 is used in nonlocally-switched, ground-start and loop-start special services. Typical services are foreign exchange trunks and lines and off-premises stations. The unit is normally used at the RT but may be used at the COT when in tandem (4TDM) mode if the COT digroup is modified using an ED-7C700-20, G1 E&M lead applique cable (Comcode 601245269).

AUA45B

The AUA45B is used to provide 2-wire, private line, point-to-point manual ringdown service. Each unit occupies one physical slot in a channel bank and provides two channels of service.

(Continued on next page)

RT Channel Unit Descriptions and Specifications (Continued)

List of channel unit descriptions (continued)

AUA52B

The AUA52B provides one channel of service and is intended for the end link of a digital data system private line data service. (*The end link is that part of the service between a customer and the local central office.*)

AUA53()

The AUA53 is a current feed channel unit that provides one channel of coin service. The AUA53 provides coin-first service using ground-start signaling or dial-tone-first service using loop-start signaling. This unit is compatible with the 1C/2C-type and 1D-type coin telephone sets.

AUA54()

The AUA54 is a 4-wire special service channel unit that is intended for use in private branch exchange (PBX) tie trunks and can interface with a PBX, other transmission equipment, or cable. The AUA54 provides one channel of service and can function in modes 4E&M or PLR.

AUA55

The AUA55 is intended for 2-wire multiparty service with automatic number identification (ANI) for 2-party lines. The AUA55 is a current feed circuit that provides the interface between the customer loop and the SLC Series 5 Carrier System. This unit provides two channels of service and must be terminated with an AUA35 on the COT end. The AUA55 has a structural impedance of 900 ohms in series with 2.16 μ F.

AUA56

The AUA56 is intended for 2-wire, locally-switched special services in direct-inward dialing (DID) applications. The AUA56 is a current sink unit that provides the dial pulse terminating (DPT) function between the DID trunk circuit of a PBX and the SLC Series 5 Carrier System. The AUA56 has a structural impedance of 600 ohms in series with 2.16 μ F.

(Continued on next page)

RT Channel Unit Descriptions and Specifications (Continued)

List of channel unit descriptions (continued)

AUA57

The AUA57 furnishes a current feed interface to the customer loop for frequency-selective ringing (FSR) applications. This unit provides one channel of service (odd channel) and is designed to operate with 0-to 900-ohm loops. The AUA57 has a structural impedance of 900 ohms in series with 2.16 μ F. This unit must be used with an AUA37 (if Series 5 COT) or WP33 (if SLC 96 COT) FSR channel unit.

AUA58()

The AUA58B is intended for 2-wire, single-party POTS applications and furnishes a current feed interface to the customer loop. This unit has a structural impedance of 900 ohms in series with 2.16 μ F. The COT end of the channel is normally terminated with an AUA31 or AUA38 channel unit. The AUA58B is compatible with an AUA32 or AUA39 at the COT provided only loop-start service is required. A forward disconnect feature is furnished in all configurations.

AUA75

The AUA75 is designed for 2-wire, private line, point-to-point automatic ringdown (2WPLAR) services. This unit furnishes a current feed interface to the customer loop. Each unit occupies one physical slot in the channel bank and provides two channels of service (each channel operates independently). The AUA75 provides a voice-frequency interface with a structural impedance of 900 ohms in series with 2.16 μ F. The AUA75 has on-hook transmission, and the on-hook transmission loss is 3 dB for both transmit and receive directions.

AUA90

The AUA90 T-basic rate interface transmission extension (T-BRITE) channel unit provides the ability to provide basic rate ISDN service (2B+D) directly to a customer's terminal equipment over 4-wire T interface. Each AUA90 uses 3 DS0 channels and supplies 2B+D service to one customer.

(Continued on next page)

RT Channel Unit Descriptions and Specifications (Continued)

List of channel unit descriptions (continued)

AUA93

The AUA93 is a second generation ISDN BRI (II) channel unit. The AUA93 provides an *ANSI** standard LT-mode U-interface for full duplex transmission to one customer over a loop that meets carrier serving area (CSA) design rules. Each unit occupies one physical slot in an RT channel bank. If the AUA93 is optioned for B1+D, B2+D, or D-only service, it may be mixed with any other channel unit except 2B+D. Refer to Documents 363-205-104 and 363-205-106 for restrictions and compatibility requirements.

AUA94

The AUA94 channel unit (CU) is an Integrated Service Digital Network (ISDN) basic rate interface (BRI) channel unit intended for use in the *SLC* Series 5 Carrier System remote terminals (RTs) equipped for FP303 and integrated into a TR-303 compatible switch. The AUA94 provides an *ANSI* standard LT-mode U-interface for full duplex transmission to two customers over a nonloaded loop that meets carrier serving area (CSA) design rules. The U-interface signal provides a 2B1Q level line code at a data rate of 160 kb/s (80k baud).

The AUA94 connects the subscriber line to bank channel test unit (CTU) for metallic loop testing by the mechanized loop testing (MLT) system. The unit cannot be channel tested by the pair gain test controller (PGTC) or the extended test controller (XTC).

The AUA94 supports B1, B2, D, and 2B+D loopbacks, using the embedded operations channel (EOC) and DSL performance monitoring. This CU also supports the remote inventory feature.

AUA150C

The AUA150C is designed for 2-wire POTS and *SPOTS* channel unit applications. It provides two channels of service and a current feed interface to the customer loop. The AUA150C has a structural impedance of 735 ohms in series with 2.15 μ F. The unit automatically provides either a loop-start or a ground-start (PBX) interface, over loops as long as 1500 ohms. The unit also provides automatic loss compensation (ALC) and enhanced inventory.

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* Registered trademark of American National Standards Institute Inc.

RT Channel Unit Descriptions and Specifications (Continued)

List of channel unit descriptions (continued)

AUA158C

The AUA158C channel unit is designed for 2-wire, loop-start POTS service. This channel unit provides two channels of service and is located at the RT. The AUA158C furnishes a current feed interface to the customer loop and provides a fast forward disconnect feature. (The RT disconnects when the CO battery open interval is greater than 50ms.) This unit features automatic loss compensation (ALC) which optimizes the loss level for ranges of metallic extensions up to 900 ohms. If a digital loop carrier (DLC) is replacing long metallic loops, the ALC feature minimizes the loss contrast experienced on cutover. The greater on-hook loss of the AUA158C relative to the AUA158 enhances its compatibility with calling number delivery (CND) and calling name delivery (CNAM) services.

AUA159C

The AUA159C channel unit [also known as a universal voice grade (UVG)] unit is designed for 2-wire POTS and locally-switched special service applications. This channel unit provides two channels of service and is located at the RT. The AUA159C furnishes a current feed interface to the customer loop and provides a fast forward disconnect feature. (The RT disconnects when the CO battery open interval is greater than 50ms.) This unit features ALC which optimizes the loss level for ranges of metallic extensions up to 900 ohms for POTS applications or across the CSA for locally-switched special services. The greater on-hook loss of the AUA159C relative to the AUA159 enhances its compatibility with CND and CNAM services.

AUA179

The AUA179 channel unit (also known as the ALIC5 channel unit) is designed for 2-wire POTS and locally-switched special services. The AUA179 provides two channels of service and is located at the RT. The AUA179 furnishes a current feed interface to the customer loop and provides a fast forward disconnect feature. (The RT disconnects when the CO open battery interval is greater than 50 ms.) The AUA179 is equipped with ALC which optimizes the loss level for ranges of metallic extensions up to 900 ohms for POTS applications or across the CSA for locally-switched special services.

(Continued on next page)

RT Channel Unit Descriptions and Specifications (Continued)

List of channel unit descriptions (continued)

AUA400

The AUA400 is intended for standard 2-wire, analog, single-party POTS applications with loop-start supervision. This channel unit provides two channels of service to a single customer over a fiber optic loop at 1.544 Mb/s. This channel unit is always used at the RT. The COT end must be terminated with an AUA31, AUA32, or AUA38. On the loop side, the AUA400 interfaces with an AYB1B optical unit (OU).

AUA401

The AUA401 is intended for standard 2-wire, analog, single-party POTS applications with loop-start supervision. This channel unit provides four channels of service to a single customer over a fiber optic loop at 1.544 Mb/s. This channel unit is always used at the RT. The COT end must be terminated with an AUA31, AUA32, or AUA38(). On the loop side, the AUA400 interfaces with an AYB1B optical unit (OU).

AUA404

The AUA404 is intended for standard 2-wire, analog, single-part, POTS applications with loop-start supervision. This channel unit provides two channels of service to a single customer over a fiber optic loop at 1.544 Mb/s. This channel unit is always used at the RT. The COT end must be terminated with an AUA31, AUA32, or AUA38(). On the loop side, the AUA404 interfaces with an AYB1B optical unit (OU). The AUA404 has enhanced testing capability. When the AUA404 is used with the ASJ2 and EAF1 [located at the distant terminal (DT)], the PGTC or XTC (in PGTC emulation mode) can test the derived channel, and the mechanized loop testing (MLT) system can access the metallic drop beyond the DT.

AUA405

The AUA405 is intended for standard 2-wire, analog, single-party POTS applications with loop-start supervision. This channel unit provides four channels of service to a single customer over a fiber optic loop at 1.544 Mb/s. This channel unit is always used at the RT. The COT end must be terminated with an AUA31, AUA32, or AUA38. On the loop side, the AUA405 interfaces with an AYB1B optical unit (OU). The AUA405 has enhanced testing capability. When used with the ASJ2 and EAF1 (located at the DT), the PGTC or XTC (in PGTC emulation mode) can test the derived channel, and the MLT system can access the metallic drop beyond the DT.

(Continued on next page)

RT Channel Unit Descriptions and Specifications (Continued)

List of channel unit descriptions (continued)

AUA406

The AUA406 is a triple-width channel unit comprised of two circuit boards joined together with one common faceplate. The AUA406 occupies three adjacent channel unit slots in the Series 5 RT channel bank and is designed to support the *SLC-2000* Access System MSDT. This channel unit provides between 6 and 24 channels of service to a single customer over a fiber optic loop at 1.544 Mb/s. The AUA406 interfaces with the TRU and BCU on the system end (COT) and with the AYB1B optical unit on the loop side (DT).

AUA408

The AUA408 MSDT Server is a triple-width unit comprised of two circuit boards joined together with one common faceplate. The AUA408 occupies three adjacent channel unit slots in the RT shelf. The AUA408 MSDT Server accepts from 6 to 24 16-bit time slots from the backplane bus for either the universal or integrated configuration and feeds them to its transceiver. The transceiver multiplexes this signal with framing bits into a 1.544-Mb/s bit stream and feeds it to the backplane interface logic (BPIL) circuit. The BPIL circuit scrambles the 1.544-Mb/s bit stream and feeds it to the optical unit (OU) using a balanced line driver.

Related Documentation

**RT channel unit
related
documentation**

The following table lists Lucent Technologies documentation where additional information may be found concerning RT channel unit circuit packs. To order one or more of the following documents, refer to the "About This Document" section of this document.

Document	Title
Data Sheet 363-005-105	<i>AUA41 Circuit Pack</i>
Data Sheet 363-005-106	<i>AUA42 Circuit Pack</i>
Data Sheet 363-005-107	<i>AUA43 Circuit Pack</i>
Data Sheet 363-005-108	<i>AUA44 Circuit Pack</i>
Data Sheet 363-005-111	<i>AUA52 Circuit Pack</i>
Data Sheet 363-005-112	<i>AUA53 Circuit Pack</i>
Data Sheet 363-005-113	<i>AUA54 Circuit Pack</i>
Data Sheet 363-005-115	<i>AUA56 Circuit Pack</i>
Data Sheet 363-005-116	<i>AUA55B Circuit Pack</i>
Data Sheet 363-005-117	<i>AUA58B Circuit Pack</i>
Data Sheet 363-005-122	<i>AUA57 Circuit Pack</i>
Data Sheet 363-005-123	<i>AUA45B Circuit Pack</i>
Data Sheet 363-005-124	<i>AUA25 Circuit Pack</i>
Data Sheet 363-005-128	<i>AUA27 Circuit Pack</i>
Data Sheet 363-005-129	<i>AUA90 Circuit Pack</i>
Data Sheet 363-005-130	<i>AUA92 Circuit Pack</i>
Data Sheet 363-005-131	<i>AUA93 Circuit Pack</i>

(Continued on next page)

Related Documentation (Continued)

RT channel unit
related
documentation
(continued)

Document	Title
Data Sheet 363-005-132	<i>AUA75 Circuit Pack</i>
Data Sheet 363-005-133	<i>AUA150 Circuit Pack</i>
Data Sheet 363-005-135	<i>AUA94 Circuit Pack</i>
Data Sheet 363-005-260	<i>AUA400 Circuit Pack</i>
Data Sheet 363-005-261	<i>AUA401 Circuit Pack</i>
Data Sheet 363-005-267	<i>AUA404 Circuit Pack</i>
Data Sheet 363-005-268	<i>AUA405 Circuit Pack</i>
Data Sheet 363-005-273	<i>AUA406 Circuit Pack</i>
Data Sheet 363-005-274	<i>AUA408 MSDT Server</i>
Data Sheet 363-005-303	<i>AUA158() Circuit Pack</i>
Data Sheet 363-005-304	<i>AUA159() Circuit Pack</i>
Data Sheet 363-005-311	<i>AUA179 Circuit Pack</i>
363-205-001	<i>Fiber To The Home, Information Guide</i>
363-205-104	<i>SLC® Series 5 Carrier System, Integrated Network Access-Remote Terminal, User's Manual</i>
363-205-106	<i>SLC® Series 5 Carrier System, Integrated Network Access-Remote Terminal, T-BRITE Channel Unit, Installation and Maintenance</i>
363-205-107	<i>SLC® Series 5 Carrier System, AUA93 BRITE II (U-Interface) Channel Unit for ISDN, Installation and Maintenance</i>
363-205-113	<i>SLC® Series 5 Carrier System, AUA94 U-DSL ISDN Channel Unit, Installation and Maintenance</i>
915-710-116	<i>Channel Unit Application and Prescription Setting</i>

RT Digital Connectivity Equipment

RT Digital Connectivity Equipment Descriptions and Specifications

Introduction

A SLC Series 5 Carrier System channel bank equipped with FPC or FPD may have one or more digroups arranged for digital connectivity. The affected digroups are then connected using two pairs of shielded wire (per digroup) to a DS1 facility of the type that serves a D4 channel bank digroup. Standard channel unit circuit packs *are not* installed in digroups converted to digital connectivity. For each digroup converted, the normal complement of channel units is replaced by two digital connectivity units (DCUs). Snap-in faceplates are used to cover the other channel unit slots to prevent accidental circuit pack insertion. The DCUs must be installed in the digroup as a pair. The AUA16 is installed in the sixth channel unit position, and the AUA17 is installed in the twelfth channel unit position. Digital connectivity may not be applied to banks arranged for the fiber in the loop (FITL) feature.

The equipment descriptions contained in this section are arranged in alphanumeric order. Unless otherwise specified, each item listed in this section has a rating of general availability.

AUA16

The AUA16 digital connectivity unit - left (DCU-L) works with the AUA17 digital connectivity unit - right (DCU-R) to provide a DS1 rate interface with an Fs (D4) framing format. At the COT end, this allows (using a DSX-1 cross-connect) connection to an M12 or an M13 multiplexer, a Digital Access Cross-Connect System (DACS), a T1 line (office repeater interface), or to another DCU in a companion Series 5 COT. The RT can interface a D4-type channel bank, a D4 Digital Data Bank, a T1 line (office repeater interface), a multiplexer, or a digital PBX. This unit must be installed with an AUA17 DCU-R.

<i>Unit Description and Function Code:</i>	DCU-L
<i>Description:</i>	Digital Connectivity Unit-Left
<i>Comcode:</i>	103840310
<i>CLEI Code:</i>	5SCS400AXX
<i>Lucent Technologies Document:</i>	Data Sheet 363-005-142
<i>Feature Package Compatibility:</i>	C, D
<i>Max. Order per 96-Line System:</i>	1/48, 2/96, 3/144, 4/192

(Continued on next page)

RT Digital Connectivity Equipment Descriptions and Specifications (Continued)

AUA17 The AUA17 DCU-R works with the AUA16 DCU-L to provide a DS1 rate interface with an Fs (D4) framing format. At the COT end, this allows (using a DSX-1 cross-connect) connection to an M12 or an M13 multiplexer, a Digital Access Cross-Connect System (DACS), a T1 line (office repeater interface), or to another DCU in a companion Series 5 COT. The RT can interface a D4-type channel bank, a D4 Digital Data Bank, a T1 line (office repeater interface), a multiplexer, or a digital PBX. This unit must be installed with an AUA16 DCU-L.

<i>Unit Description and Function Code:</i>	DCU-R
<i>Description:</i>	Digital Connectivity Unit-Right
<i>Comcode:</i>	103840328
<i>CLEI Code:</i>	5SCS500AXX
<i>Lucent Technologies Document:</i>	Data Sheet 363-005-142
<i>Feature Package Compatibility:</i>	C, D
<i>Max. Order per 96-Line System:</i>	1/48, 2/96, 3/144, 4/192

ED-7C693-30, G1 Order this item to receive a cable assembly to convert digroup A of a Series 5 system (white or blue) to digital connectivity.

ED-7C693-30, G2 Order this item to receive a cable assembly to convert digroup B of a Series 5 system (white or blue) to digital connectivity.

ED-7C693-30, G3 Order this item to receive a cable assembly to convert digroup C of a Series 5 system (white or blue) to digital connectivity.

ED-7C693-30, G4 Order this item to receive a cable assembly to convert digroup D of a Series 5 system (white or blue) to digital connectivity.

(Continued on next page)

RT Digital Connectivity Equipment Descriptions and Specifications (Continued)

ED-7C693-30, G5 Order these items to receive an assembly consisting of two snap-in faceplates (used to prevent accidental insertion of a normal channel unit into a digroup arranged for digital connectivity).

ED-7C693-30, G6 Order this assembly to receive a kit of parts necessary to convert a Series 5 system (white or blue) to digital connectivity. This kit consists of one each of the following:

- 1 - AUA16-DCU-L
 - 1 - AUA17-DCU-R
 - 1 - ED-7C693-30, G1, G2, G3, G4 (cable assembly)
 - 1 - ED-7C693-30, G5 (snap-in faceplate assembly)
 - 1 - Set of RT block and cabling diagrams.
-

ED-7C693-30, G7 Order this assembly to receive a kit of parts to convert one digroup of a Series 5 system to digital connectivity. This kit consists of the following:

- 1 - AUA16-DCU-L
 - 1 - AUA17-DCU-R
 - 2 - ED-7C693-30, G5 (snap-in faceplate assembly).
-

Related Documentation

**RT digital
connectivity
related
documentation**

The following table lists Lucent Technologies documentation where additional information may be found concerning RT digital connectivity circuit packs. To order one or more of the following documents, refer to the "About This Document" section of this document.

Document	Title
Data Sheet 363-005-142	<i>AUA16 Circuit Pack</i>
Data Sheet 363-005-143	<i>AUA17 Circuit Pack</i>
363-205-010	<i>SLC® Series 5 Carrier System, Applications and Planning Guide</i>
ED-7C693-30	<i>Digital Connectivity Kits</i>

RT Power and Ringing Circuit Packs

Overview

General

This subsection provides ordering information for circuit packs required to power a *SLC* Series 5 Carrier System RT. Two types of power systems are used to power all RT applications (AC distributed or DC bulk). The circuit packs required for systems arranged for AC distributed power are located in a J1C182BA-1 or J1C182BC-1 shelf or the associated 181A battery shelf mounting. The circuit packs required for systems arranged for DC bulk power are generally located in a J1C182BB-1, J1C182BD-1, or ED-7C704-30 power shelf.

General Power and Ringing CP Information

Circuit packs for
 J1C182BA-1, L()
 power shelf

The following table provides general circuit pack information, including minimum and maximum quantities of each pack used and unit description/function codes for a J1C182BA-1, L() power shelf.

Order Wording	Description	Max. Quantity Required Equipment Type Used			Comments
		51A Cabinet	80D Cabinet	ED-8C500-50, G5 RT Frame	
AUG1	Positive Ring Unit (PRU)	1	2	2	Only required for multiparty service
3C1 <i>or</i>	20 Hz Ring. Gen.	2	2	2	
3B1	30 Hz Ring. Gen.	2	2	2	
AUG11	Bank Fuse Unit (BFU)	1	2	2	
336A1	Power Unit (Rectifier)	2	4	4	
337A1	Power Unit (Battery Charger)	2	—	—	80D and 7-foot frame applications require the 337A1 to be placed in the battery shelves
ED-7C613-30, G3	Load Distribution Unit (LDU)	1	1	1	
ED-7C613-30, G2	LDU Daughter Board	1	1	N/A	Used only in cabinets for order wire build-out capability

(Continued on next page)

General Power and Ringing CP Information (Continued)

Circuit packs for J1C182BB-1, L() power shelf

The following table provides general circuit pack information, including minimum and maximum quantities of each pack used and unit description/function codes for a J1C182BB-1, L() power shelf.

Order Wording	Description	Max. Quantity Required			Comments
		One DCB	Two DCBs	Three DCBs	
AUG1	Positive Ring Unit (PRU)	1	1	2	
AUG2	Ring Switch Unit (RSU)	1	1	1	
3C1 <i>or</i>	20 Hz Ring. Gen.	2	2	2	
3B1	30 Hz Ring. Gen.	2	2	2	
AUG11	Bank Fuse Unit (BFU)	1	2	3	

Circuit packs for J1C182BC-1, L() ringing shelf

The following table provides general circuit pack information including minimum and maximum quantities of each pack used and unit description/function codes for a J1C182BC-1, L() ringing shelf.



NOTE:

The J1C182BC-1, L() ringing shelf is arranged with two separate ringing groups designated group 1 and group 2. The minimum plug-in requirements shown in the following table are sufficient to fully equip the first group and will provide ringing for a fully equipped 80E-BP cabinet. The maximum plug-in requirements shown in the table are sufficient to equip both the first and second ringing groups. The maximum plug-in arrangement is only required if the customer wishes to arrange the cabinet with two separate ringing loads.

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General Power and Ringing CP Information (Continued)

Circuit packs for
 J1C182BC-1, L()
 ringing shelf
 (continued)

Order Wording	Description	Quantity Required per 80E BP Cabinet		Comments
		Minimum	Maximum	
AUG3	Ring Control Unit (RCU)	1	2	
3C1 <i>or</i>	20 Hz Ring. Gen.	2	4	
3B1	30 Hz Ring. Gen.	2	4	

Circuit packs for
 J1C182BD-1, L()
 power shelf

The following table provides general circuit pack information, including minimum and maximum quantities of each pack used and unit description/function codes for a J1C182BD-1, L() power shelf.

Order Wording	Description	Quantity Required for an 80A Cabinet			Comments
		One DCB	Two DCBs	Three DCBs	
AUG3	Ring Control Unit (RCU)	1	1	1	
AUG4	Battery Interface Unit (BIU)	1	1	1	
3H1	20 Hz Ring. Gen.	1	2	2	
336A1	Power Unit (Rectifier)	3	5	5	

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General Power and Ringing CP Information (Continued)

Circuit packs for
ED-7C704-30
rectifier shelf

The following table provides general circuit pack information, including minimum and maximum quantities of each pack used and unit description/function codes for an ED-7C704-30 rectifier shelf.

Order Wording	Description	Quantity Required per 80D or 80E BP Cabinets		Comments
		Minimum	Maximum	
CS787B540	Off-Line Switching (OLS) Rectifier	2	3	Third unit added at customer discretion for additional charging capacity

Power Unit Equipment Descriptions and Specifications

Introduction

This section contains an alphanumeric listing and description of the circuit packs required to power an AC (distributed) or DC (bulk) *SLC* Series 5 Carrier System RT. Unless otherwise specified, all codes listed in this section have a rating of general availability.

A condensed listing of all circuit packs (including all pertinent ordering codes) is located in Appendix 1 of this document. If a discrepancy exists between a comcode or *COMMON LANGUAGE CLEI* code listed in this section and Appendix 1, "Quick Reference Ordering Guide," use the information with the latest publication date.

AUG1

The AUG1 PRU is required in any RT expected to provide multiparty service to more than two customers on one line. Actually, a PRU is required in any RT providing multiparty service to as few as two customers per line if those circuits are tested by an XTC which serves any multiparty circuits with more than two customers per line. Therefore, if an RT is being ordered for a location homed on a CO which is (or is to be) served by an XTC and which provides, or is expected to provide, multiparty service to more than two parties per line, a PRU should be included in the original order. See Customer Information Release (CIR) 363-099-073IR for additional details on the AUG1.

<i>Unit Description and Function Code:</i>	PRU
<i>Description:</i>	Positive Ringing Unit
<i>Comcode:</i>	104032727
<i>CLEI Code:</i>	5SCB900GXX
<i>Lucent Technologies Document:</i>	Data Sheet 363-005-240

(Continued on next page)

Power Unit Equipment Descriptions and Specifications (Continued)

AUG2

The AUG2 is used in the J1C182BB-1 power shelf (bulk power). This unit provides load switching for negative ringing and generates both major or minor ringing alarms in the event of a failed ringing generator or -48 V DC power failure.

Unit Description and Function Code: RSU
Description: Ring Switch Unit
Comcode: 104032743
CLEI Code: 5SCBA30GXX
Lucent Technologies Document: Data Sheet 363-005-241

AUG3

The AUG3 is used in the J1C182BC-1 ring shelf and the J1C182BD-1 power shelf to provide output load switching for the negative ringing in the event of a ringing generator failure. A failure on either ringing generator will cause the output load to be switched to the working generator.

Unit Description and Function Code: RCU
Description: Ring Control Unit
Comcode: 104032750
CLEI Code: 5SCBM00GXX
Lucent Technologies Document: Data Sheet 363-005-242

(Continued on next page)

Power Unit Equipment Descriptions and Specifications (Continued)

AUG4

The AUG4 battery interface unit is used in the J1C182BD-1 power shelf and provides an interface between the rectifiers (five 336A1s) and batteries (two strings of -48 V DC) to prevent battery damage that can occur from deep discharge. The unit also provides short circuit protection for the batteries in case the battery cables are accidentally shorted. The AUG4 provides a power minor alarm [PMN - indicates the batteries are on discharge] and a minor alarm [MN - indicates an AC power failure, rectifier internal circuit failure, or a failure of AUG4 battery disconnect relay or fusing].

<i>Unit Description and Function Code:</i>	BIU
<i>Description:</i>	Battery Interface Unit
<i>Comcode:</i>	104032768
<i>CLEI Code:</i>	5SPQ10PAAA
<i>Lucent Technologies Document:</i>	Data Sheet 363-005-243

AUG11

The AUG11 bank fuse unit (BFU) is used in the J1C182BA-1 power shelf or the J1C182BB-1 bulk power shelf. One AUB11 BFU is required for each RT DCB. Each BFU contains 5 WP90247-type indicator fuses. Three of the fuses provide -48 V DC fuse protection to the white bank, the blue bank, and the common units in the dual channel bank. Two of the fuses provide -48 V DC fuse protection to the fan shelf.

<i>Unit Description and Function Code:</i>	BFU
<i>Description:</i>	Battery Fuse Unit
<i>Comcode:</i>	106193485
<i>CLEI Code:</i>	5SCB3B0AAA
<i>Lucent Technologies Document:</i>	Data Sheet 363-005-230

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Power Unit Equipment Descriptions and Specifications (Continued)

CS787B540 The CS787B540 power unit (rectifier) is part of the off-line switching (OLS) power plant used in the 80E-BP cabinet. Up to three CS787B540 power units may be located in the ED-7C704-30 power shelf supplied with the 80E-BP cabinet. Each power unit is rated at 25-amps output. A minimum of two power units is recommended per shelf, and the third unit is added at customer discretion when additional charging capacity is required.

Unit Description and Function Code: PU
Description: Power Unit (OLS Rectifier)
Comcode: 105571590
CLEI Code: PWPQ88CAAD
Lucent Technologies Document: Data Sheet 363-005-227

ED-7C613-30, G1^{DA} This unit is rated DA and is replaced by ED-7C613-30, G3.

ED-7C613-30, G2 The ED-7C613-30, G2 is a circuit pack used with the ED-7C613-30, G3 load distribution unit. Refer to the description of the ED-7C613-30, G3 (located on the next page) for a description of this unit.

Unit Description and Function Code: LDU
Description: Load Distribution Unit daughter board
Comcode: 600423198
CLEI Code: 5SCB210AAA
Lucent Technologies Document: Data Sheet 363-005-222

(Continued on next page)

Power Unit Equipment Descriptions and Specifications (Continued)

ED-7C613-30, G3 The ED-7C613-30, G3 load distribution unit (LDU) is used in the J1C182BA-1 power shelf to disconnect system loads to prevent damage to backup batteries during prolonged AC power outages. The LDU also connects a spare ringing generator (also located in the J1C182BA power shelf) to the ringing loads in the event of a ringing generator failure. The Group 2 option (ordered ED-7C613-30, G2) provides order wire appearance and build out. The ED-7C613-30, G2 (referred to as the LDU daughter board) has four externally adjustable switches used for setting the order wire resistance. The daughter board is plugged into a slot on the faceplate of the LDU.

Unit Description and Function Code: LDU
Description: Load Distribution Unit
Comcode: 601251259
CLEI Code: 5SCB10AAA
Lucent Technologies Document: Data Sheet 363-005-222

3B1 The 3B1 ringing generator supplies 30-Hz negative-superimposed ringing current to satisfy the 30-Hz ringing requirements of the RT. This unit replaces the 3B ringing generator (rated DA).

Unit Description and Function Code: Ring. Gen.
Description: Ringing Generator
Comcode: 105727838
CLEI Code: N/A
Lucent Technologies Document: Data Sheet 363-005-223

(Continued on next page)

Power Unit Equipment Descriptions and Specifications (Continued)

3C1

The 3C1 ringing generator supplies 20-Hz negative-superimposed ringing current to satisfy the ringing requirements of the RT. This unit replaces the 3C ringing generator (rated DA).

Unit Description and Function Code: Ring. Gen.
Description: Ringing Generator
Comcode: 105727846
CLEI Code: 5SCB644DAB
Lucent Technologies Document: Data Sheet 363-005-226

3H1

The 3H1 ringing generator supplies 20-Hz negative-superimposed ringing current to satisfy the ringing requirements of the RT. The 3H1 is electrically the same as the 3C1; however, the 3H1 has a narrower faceplate for compatibility with the J1C182BD-1 power shelf.

Unit Description and Function Code: Ring. Gen.
Description: Ringing Generator
Comcode: 106397888
CLEI Code: 5SCBPE0DAA
Lucent Technologies Document: Data Sheet 363-005-244

(Continued on next page)

Power Unit Equipment Descriptions and Specifications (Continued)

336A1

The 336A1 is an off-line switcher rectifier which converts commercial AC power to a nominal -52.4 volts DC. This unit is used in the J1C182BA-1, L() power shelf and supplies up to 5.75 amps of output current. This unit replaces the 336A (rated DA).

Unit Description and Function Code: PU
Description: Power Unit (Rectifier)
Comcode: 105701726
CLEI Code: 5SCB723EXX
Lucent Technologies Document: Data Sheet 363-005-220

337A1

The 337A1 battery charger supplies boost voltage for charging a 25 ampere-hour nominal -48 V DC sealed lead-acid battery. This unit can provide a high-rate constant current charge or a temperature compensated low rate constant current float charge. The 337A1 is used in the 181-type apparatus mounting or the J1C182BA-1 power shelf.

Unit Description and Function Code: PU
Description: Power Unit (Battery Charger)
Comcode: 105701734
CLEI Code: 5SCB804FXX
Lucent Technologies Document: Data Sheet 363-005-221

Related Documentation

**RT power CPs
related
documentation**

The following table lists Lucent Technologies documentation where additional information may be found concerning circuit packs needed to power a *SLC* Series 5 Carrier System RT. To order one or more of the following documents, refer to the "About This Document" section of this document.

Document	Title
Data Sheet 363-005-142	<i>AUA16 Circuit Pack</i>
Data Sheet 363-005-219	<i>40D Bank Fuse Unit</i>
Data Sheet 363-005-220	<i>336A1 Power Unit (Rectifier)</i>
Data Sheet 363-005-221	<i>337A1 Battery Charger</i>
Data Sheet 363-005-222	<i>ED-7C613-30 Load Distribution Unit</i>
Data Sheet 363-005-223	<i>3B1 Ringing Generator</i>
Data Sheet 363-005-226	<i>3C1 Ringing Generator</i>
Data Sheet 363-005-227	<i>CS787B540 Power Unit</i>
Data Sheet 363-005-230	<i>AUG11 Circuit Pack</i>
Data Sheet 363-005-240	<i>AUG1 Positive Ringing Unit</i>
Data Sheet 363-005-241	<i>AUG2 Ring Switch Unit</i>
Data Sheet 363-005-242	<i>AUG3 Ring Control Unit</i>
363-205-010	<i>SLC® Series 5 Carrier System, Applications and Planning Guide</i>
915-710-115	<i>SLC® Series 5 Carrier System, Application Engineering Practice</i>

RT Feature Package Conversion

Overview

General

This subsection provides ordering information for circuit packs required to convert existing *SLC* Series 5 Carrier System RT DCB to a higher level feature package arrangement. See Chapter 3, "Central Office Terminal Circuit Packs," of this document for feature package conversion of COT DCBs.

Convert Existing FPA or FPB to FPC

**Circuit packs
required for
conversion**

The following circuit packs will be required for this conversion:

- AUA21B TRU
 - AUB25 CTU
 - AUB26 ADU
 - MC97756A1 BCU.
-

Convert Existing FPA or FPB to FPD

**Circuit packs
required for
conversion**

The following circuit packs will be required for this conversion [existing AUA61C, AUA62C, or AUA64C version LIUs (rated DA) may be used in this application if available from customer stock]:

- AUA21B TRU
 - AUB25 CTU
 - AUB26 ADU
 - MC97756A1 BCU
 - AUA61D LIU-ORB
or
AUA62F LIU-PWR
or
AUA64F LIU-Loop
 - AUA71 TCU (replaces LIUs in shelves A/B and C/D)
 - AUA73B LSU.
-

Convert Existing FPC to FPD

Circuit packs required for conversion

The following circuit packs will be required for this conversion [existing AUA61C, AUA62C, or AUA64C version LIUs (rated DA) may be used in this application if available from customer stock]:

- AUA61D LIU-ORB
or
AUA62F LIU-PWR
or
AUA64F LIU-Loop
 - AUA71 TCU
 - AUA73B LSU.
-

Convert FPC to FPC/AC

Circuit packs required for conversion

The following circuit packs will be required at the RT to enable the AutoCut feature [existing AUA61C, AUA62C, or AUA64C version LIUs (rated DA) may be used in this application if available from customer stock]:

- MC97776A1 (rated DA)
or
MC97776A1B BCU
 - AUB27 (rated DA)
or
AUB27B ADU
 - AUA61D LIU-ORB
or
AUA62F LIU-PWR
or
AUA64F LIU-Loop
 - AUA105 TRU
or
AUA109 TRU
 - AUB22 CTU (use for PGTC testing)
or
AUB25 CTU (use for XTC testing)
 - AUA18 DTU-L (requires AUA19 DTU-R)
 - AUA19 DTU-R (requires AUA18 DTU-L).
-

Convert Existing FPB to Enhanced FPB

Circuit packs required for conversion

The following circuit packs will be required to convert an FPB RT to an enhanced FPB RT (Mode 1) with CIU provisioning capability:

- MC97776A1 (rated DA)
or
MC97776A1B BCU
 - AUA22B TRU
or
AUA109 TRU
or
AUA105 TRU
 - AUB27 (rated DA)
or
AUB27B ADU.
-

Convert Enhanced FPB Mode 1 to FPB Universal or Integrated Mode 2

Circuit packs required for conversion

The following circuit packs will be required to make this conversion:

- MC97776A1 (rated DA)
or
MC97776A1B BCU
 - AUA105 TRU
 - AUB27 (rated DA)
or
AUB27B ADU
 - AUA61D LIU-ORB (D-series LIU required)
or
AUA62F LIU-PWR
or
AUA64F LIU-Loop.
-

Convert Existing FPB to FP303 Release 3.0

Circuit packs required for conversion

The following circuit packs will be required to make this conversion.

- MC97796A1 BCU*
 - AUA112B TRU*
 - 993A TRU connector assembly
 - AUB27 (rated DA)
or
AUB27B ADU
 - AUA61C/D LIU-ORB
or
AUA62D/F LIU-PWR
or
AUA64D/F LIU-Loop.
-

* The AUA112B TRU and MC97796A1 BCU circuit packs are compatible with 5ESS switch Release 5E9.2 and 5E10, GTD-5 switch Release SVR1731 (excluding ISDN and protection line DS1), and DMS100 switch Release NA004.

Related Documentation

**RT feature
package
conversion related
documentation**

The following table lists Lucent Technologies documentation where additional information may be found concerning circuit packs needed for feature package conversion of a *SLC Series 5 Carrier System RT*. To order one or more of the following documents, refer to the "About This Document" section of this document.

Document	Title
Data Sheet 363-005-150	<i>AUA61D Circuit Pack</i>
Data Sheet 363-005-151	<i>AUA62FCircuit Pack</i>
Data Sheet 363-005-152	<i>AUA64F Circuit Pack</i>
Data Sheet 363-005-162	<i>AUA21B Circuit Pack</i>
Data Sheet 363-005-163	<i>AUA22 Circuit Pack</i>
Data Sheet 363-005-164	<i>AUA71 Circuit Pack</i>
Data Sheet 363-005-165	<i>AUA73B Circuit Pack</i>
Data Sheet 363-005-181	<i>MC97756A1 Circuit Pack</i>
Data Sheet 363-005-187	<i>AUB26 Circuit Pack</i>
Data Sheet 363-005-201	<i>AUB25 Circuit Pack</i>
915-710-116	<i>Channel Unit Application and Prescription Setting</i>

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Purpose

Overview

Introduction

This chapter contains ordering information for remote terminal (RT) cabinets in which *SLC*[®] Series 5 Carrier System equipment may be mounted.

Many changes have been made to this chapter including the addition of two new cabinets [80D-BP and 80E fiber in the loop (FITL)]. New offerings such as the DDM-2000 OC-3 and DDM-2000 OC-12 multiplexers and the DDM-Plus Extension Shelf are now offered in the Series 5 cabinets. Chapter 6 is divided into eight subsections as follows:

- *51A Cabinet ED-7C601-30*
- *80A Cabinet ED-7C711-30*
- *80D Cabinet ED-7C621-30*
- *80D-BP Cabinet ED-7C716-30*
- *80E Cabinet ED-7C695-30*
- *80E-BP Cabinet ED-7C703-30*
- *80E-FTTH Cabinet ED-7C707-30*
- *90A Business Remote Terminal (BRT) Cabinet ED-7C699-30.*

The information in each subsection is configured as follows:

- General cabinet information, dimensions, capacities, compatibility table(s)
- Group descriptions, ordering information, and special conditions
- Batteries, miscellaneous equipment, and mounting apparatus
- Related documentation.

Planning/ordering worksheets are provided at the end of the chapter to assist you in tracking your cabinet selections and placing your order.

Generally, cabinets are ordered by a main cabinet group number in combination with one or more compatible subgroups. Subgroups may be ordered in various combinations and quantities (depending on application). If a main cabinet assembly will accept more than one of a particular subgroup, the maximum per-cabinet capacity of that subgroup will be identified by a number enclosed in parentheses immediately following the word "Order" in the group description. Each cabinet is shipped fully assembled and completely prewired.

(Continued on next page)

Overview (Continued)

Introduction (continued)

The example below is provided to indicate the format and definition of the cabinet (main and subgroup) descriptions in this chapter.

Example:

ED-7C711-30, G96^{NEW}

Order **(4 Max.)** in addition to a G90 or G91 cabinet assembly (e/w G81) to provide

In the example, we find that the main cabinet number is "ED-7C711-30". G96 is a subgroup. G96 may be ordered with cabinet assemblies G90 or G91 when either assembly is equipped with subgroup G81. G96 is "NEW" to the present issue of this document, and orderable in quantities up to "4".

Batteries and other miscellaneous equipment may be required for cabinet installation or maintenance. This equipment may be ordered by comcode or "ED"-code and placed with the cabinet order. (See sample worksheet located under the *Worksheets* **tab at the end of this chapter.**)

For immediate assistance regarding questions on 80-type cabinets, call the following toll-free number: **1-800-4CABNET (1-800-422-2638)**

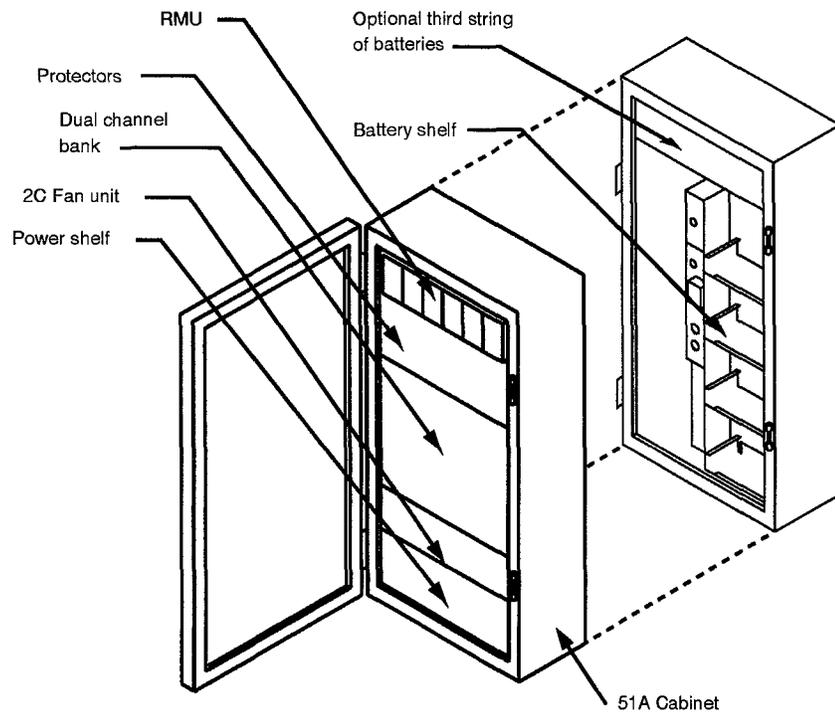
Call this number Monday through Friday, between the hours of 8 a.m. and 4 p.m. Central standard time (CST).

51A Cabinet (ED-7C601-30)

Overview

General

The 51A cabinet can house various types and combinations of *SLC* Series 5 carrier equipment, DDM-1000 or DDM-2000 OC-3 lightwave (LW) multiplexers, and DS1 extensions including the new DDM-Plus Extension Shelf and DDM-Plus Cabinet Distant Terminal (DT). The 51A has a capacity of 192 voice-frequency (VF) lines. The cabinet is shipped factory assembled and completely prewired. Each main cabinet group number (1-6) is equipped with shelves for mounting two battery strings. Most configurations allow the mounting of a third battery string. Protector blocks and protector units for the ultimate capacity of digital lines (3B3EW type), miscellaneous pairs (3B1EW type), and derived pairs (3C1EW type) can be provided with each cabinet. The following figure illustrates the typical equipment placement in a 51A cabinet.



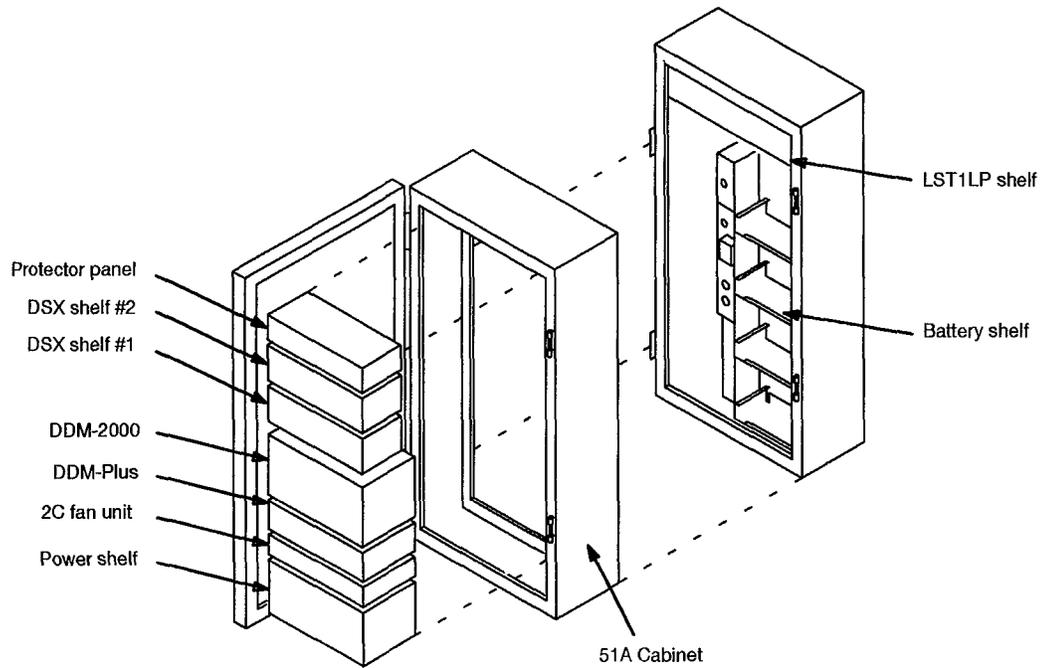
tpa 789445/01

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Overview (Continued)

General (continued)

The following figure illustrates the equipment layout for a G6 cabinet. This cabinet arrangement (used where a "fiber hub" is required) is not arranged for a Series 5 DCB, rather it is arranged to accept a DDM-2000 OC-3 Multiplexer shelf and a DDM-Plus (repeater) shelf.



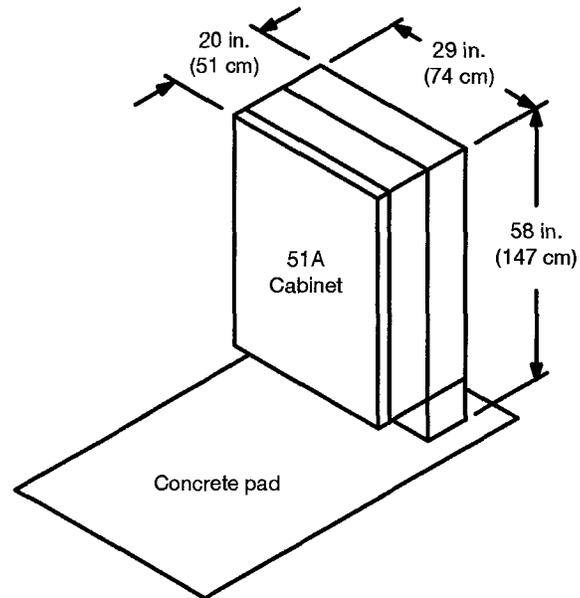
tpa 798426/01

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Overview (Continued)

**General
(continued)**

The 51A cabinet may be mounted on a pole or concrete pad. Overall cabinet dimensions are given in the following figure.



(Continued on next page)

Overview (Continued)

General (continued)

The 51A cabinet is ordered by selecting a "main" cabinet group number, compatible subgroups, batteries, and miscellaneous equipment. In the following table, a box (■) in the row indicates group compatibility with the cabinet assembly identified in the corresponding column but does not indicate that a specific group is always required. See the section entitled "51A (ED-7C601-30) Group Descriptions" to obtain the order wording, ordering status, and special considerations (if any). The documents listed in the table in the "51A Cabinet Related Documentation" section were used in the preparation of this document. Plug-in circuit packs are not provided with the 51A cabinet and must be ordered separately from Chapter 5 of this document.

Subgroup Number	Main Cabinet Assembly Group Numbers					
	G1	G2	G3	G4	G5	G6
AT-8783B	■	■	■	■	■	■
AT-8783C	■	■	■	■	■	■
AT-8812B	■	-	-	-	-	-
G9	-	■	■	■	■	■
G12	■	■	■	■	-	-
G13	-	-	-	-	■	-
G17	-	-	-	-	-	■
G18	-	-	-	-	-	■
G20	-	-	■	■	-	-
G21	-	-	■	-	-	-
G22	-	-	-	-	■	-
G23	■	■	-	-	■	-
G25	-	-	■	-	-	-
G26	-	-	-	■	-	-
G27	-	-	-	-	-	■

(Continued on next page)

Overview (Continued)

General (continued)

Subgroup Number	Main Cabinet Assembly Group Numbers					
	G1	G2	G3	G4	G5	G6
G30	-	-	-	-	-	■
G31	-	-	-	-	-	■
G34	-	-	-	-	-	■
G35	-	-	-	-	-	■
G36	-	-	-	-	-	■
G37	-	-	-	-	-	■
G40	-	-	-	-	-	■
G41	-	-	-	-	-	■
G42	-	-	-	-	-	■
G45	-	-	-	-	■	-
G46	-	-	-	-	■	■
G47	-	-	-	-	■	-
G48	-	-	-	-	■	■
G115	■	■	-	-	-	-
G116	■	■	-	-	-	-

51A Cabinet (ED-7C601-30) Group Descriptions

Introduction The order wording and group descriptions contained in this section are arranged in ascending order. Group numbers not shown are to be considered *unassigned* at the time this document was written. Unless otherwise specified, each group listed in this section has a rating of general availability.

ED-7C601-30, G1 Order this assembly to receive a 51A cabinet (color green) arranged to accept one Series 5 dual channel bank (DCB) and associated equipment.

ED-7C601-30, G2 Order this assembly to receive a 51A cabinet (color beige-brown) arranged to accept one Series 5 DCB and associated equipment.

ED-7C601-30, G3 Order this assembly to receive a 51A cabinet (color beige-brown) arranged to accept one DDM-1000 multiplexer shelf, one SXSS T-repeater shelf, and associated equipment.

ED-7C601-30, G4 Order this assembly to receive a 51A cabinet (color beige-brown) arranged to accept one DDM-1000 multiplexer shelf and associated equipment.

ED-7C601-30, G5 Order this assembly to receive a 51A cabinet (color beige-brown) arranged to accept one Series 5 DCB, DDM-Plus cabinet distant terminal (DT) and associated equipment.

ED-7C601-30, G6 Order this assembly to receive a 51A cabinet (color beige-brown) arranged to accept one DDM-2000 OC-3 Multiplexer shelf, one DDM-Plus extension shelf assembly, and associated equipment.

ED-7C601-30, G9 Order in addition to any main cabinet group to provide a pedestal base (color chocolate brown) used for mounting one cabinet.

(Continued on next page)

51A Cabinet (ED-7C601-30) Group Descriptions (Continued)

ED-7C601-30,
G11^{DA}

This group is rated discontinued availability (DA) and is replaced by G15.

ED-7C601-30, G12



NOTE:

This group is not compatible with G3 or G4 cabinet assemblies equipped with G20.

Order this group to receive a 181A apparatus mounting needed to mount a third battery string.

ED-7C601-30, G13

Order in addition to a G5 cabinet assembly to provide a 307-block/800-DSX panel. The panel is wired for 10 DS1 connections to both (blue and white) systems of the Series 5 DCB.

ED-7C601-30,
G15^{DA}

This group is rated DA and is replaced by G115.

ED-7C601-30,
G16^{DA}

This group is rated DA and is replaced by G116.

ED-7C601-30, G17

Order in addition to a G6 cabinet assembly to provide one J1C182BA-1, L3 power shelf, one 2C fan unit, and protector panel for use with DDM-2000 OC-3 and DDM-Plus equipped cabinets.

ED-7C601-30, G18

Order in addition to a G6 cabinet assembly to provide one J1C182BA-1, L3 power shelf, one 2C fan unit, and protector panel for use with a DDM-Plus only. Do not order with DDM-2000, OC-3.

(Continued on next page)

51A Cabinet (ED-7C601-30) Group Descriptions (Continued)

- ED-7C601-30, G20** Order in addition to a G3 or G4 cabinet assembly to provide one DDM-1000 multiplexer shelf assembly, one J1C182BA-1, L3 power shelf, and one 2C fan unit.
-
- ED-7C601-30, G21** Order in addition to a G3 cabinet assembly (equipped with G20) to provide one SXSS T-repeater shelf and one 181A apparatus mounting.
-
- ED-7C601-30, G22** Order in addition to a G5 cabinet assembly to provide a DDM-Plus Cabinet DT.
-
- ED-7C601-30, G23** Order in addition to Group 1, 2, or 5 main cabinet group to provide wiring and hardware required for mounting a *4TEL** Computer-Controlled Diagnostic System *RMU** telephone line test measurement apparatus.
-
- ED-7C601-30, G25** Order in addition to a G3 cabinet assembly to provide (4) 3B1EW protector units, (26) 3C1EW protector units, and (126) 4C12C continuity plugs.
-
- ED-7C601-30, G26** Order in addition to a G4 cabinet assembly to provide (4) 3B1EW protector units and (140) 4C12C continuity plugs.
-
- ED-7C601-30, G27** Order in addition to a G6 cabinet assembly to provide protector units.
-
- ED-7C601-30, G30** Order in addition to a G6 cabinet assembly to provide a DDM-2000 OC-3 Multiplexer shelf assembly.
-

(Continued on next page)

* Registered trademark of Teradyne, Inc.

51A Cabinet (ED-7C601-30) Group Descriptions (Continued)

- ED-7C601-30, G31** Order in addition to a G6 cabinet assembly to provide a DDM-Plus extension shelf assembly.
-
- ED-7C601-30, G34** Order in addition to a G5 or G6 cabinet assembly to provide an LST1LP lightguide shelf, arranged for *ST*[®] lightguide connector termination. This group includes (4) *ST* lightguide connector to *ST* lightguide connector jumpers.
-
- ED-7C601-30, G35** Order in addition to a G5 or G6 cabinet assembly to provide an LST1LP lightguide shelf, arranged for biconic fiber termination. This group includes (4) *ST* lightguide connector to biconic jumpers.
-
- ED-7C601-30, G36** Order in addition to a G35 cabinet assembly to provide (4) biconic to *ST* jumpers.
-
- ED-7C601-30, G37** Order in addition to a G34 cabinet assembly to provide (4) *ST* lightguide connector to *ST* lightguide connector jumpers.
-
- ED-7C601-30, G40** Order in addition to a G17 cabinet assembly to provide an 800 DSX for DDM-2000 OC-3, DDM-Plus, and a collocated cabinet.
-
- ED-7C601-30, G41** Order in addition to a G17 cabinet assembly to provide an 800 DSX for DDM-2000 OC-3, DDM-Plus, with no collocated cabinet.
-
- ED-7C601-30, G42** Order in addition to a G18 cabinet assembly to provide an 800 DSX panel.
-
- ED-7C601-30, G45** Order in addition to a G5 cabinet assembly to provide a 100A-LIU equipped for biconic fiber termination.
-

(Continued on next page)

51A Cabinet (ED-7C601-30) Group Descriptions (Continued)

ED-7C601-30, G46 Order in addition to a G5 or G6 cabinet assembly to provide (4) *ST* biconic jumpers.

ED-7C601-30, G47 Order in addition to a G5 cabinet assembly to provide a 100A-LIU for *ST* lightguide connector to *ST* lightguide connector fiber termination.

ED-7C601-30, G48 Order in addition to a G5 or G6 cabinet assembly to provide 4 *ST* lightguide connector to *ST* lightguide connector jumpers.

ED-7C601-30, G115 Order in addition to a G1 or G2 cabinet assembly to provide one J1C182AE-1, L3 Series 5 DCB, one J1C182BA-1, L3 power shelf, and one 2C fan unit. This group includes (20) 3B3EW protector units, (192) 3C1EW protector units, and (8) 3B1EW protector units.

ED-7C601-30, G116 Order in addition to a G1 or G2 cabinet assembly to provide one J1C182AE-1, L3 Series 5 DCB, one J1C182BA-1, L3 power shelf, and one 2C fan unit. This group does not include protector units.

AT-8783B



NOTE:

The 51A cabinet can be mounted directly to a pole using a channel hanger (supplied with each cabinet) instead of using an AT-8783B crossarm.

Order in addition to any main cabinet group to provide a metal crossarm used for pole mounting one cabinet.

Comcode 401594726

AT-8783C

Order in addition to any main cabinet group to provide a metal crossarm used for pole mounting up to three cabinets.

Comcode 401594734

(Continued on next page)

51A Cabinet (ED-7C601-30) Group Descriptions (Continued)

AT-8812B



NOTE:

For pedestal mounting, the RT site requires a concrete pad which must be procured locally and fabricated per drawings ED-1T210-01 and ED-1T212-01.

Order this item to receive a green pedestal base used for mounting one cabinet.
Comcode 401972476

Batteries and Miscellaneous Equipment

General Lucent Technologies now offers the intelligent reserve (IR)-series batteries with specifications for most cabinet applications. Orders for Gates KS-22906, L4 (six-pack) batteries should be limited to replacement of defective units in existing cabinets. IR-series and KS-22906, L4 batteries are not compatible on the same 181A apparatus mounting. Both battery types require eight batteries to fill the standard cabinet arrangement (two shelves). Four additional batteries are required if a third battery shelf is provided.



NOTE:

A third string of batteries cannot be mounted in G5 or G6 cabinets.

IR-30 The IR-30 battery is a 12 V DC, 28 ampere-hour constant current, sealed lead acid unit.
Comcode 406382754

IR-30C The IR-30C battery is a 12 V DC, 28 ampere-hour constant voltage, sealed lead acid unit.
Comcode 406456707

IR-40 The IR-40 battery is a 12 V DC, 36 ampere-hour constant current, sealed lead acid unit.
Comcode 406382739

IR-40C The IR-40C battery is a 12 V DC, 36 ampere-hour constant voltage, sealed lead acid unit.
Comcode 406456715

Key Order this item to receive an Allen key-wrench used to unlock/lock the cabinet door.
Comcode 840841324

(Continued on next page)

Batteries and Miscellaneous Equipment (Continued)

KS-21906, L4

The KS-21906, L4 12 V DC, 25 ampere-hour (six-pack) batteries may still be ordered for replacement purposes in existing cabinets.

Comcode 402269583

216C

This tool is used to open the cabinet door.

Comcode 102450574

51A Cabinet Related Documentation

List of 51A cabinet related documentation

The following table lists Lucent Technologies documentation where additional information may be found concerning the 51A cabinet and associated equipment. To order one or more of the following documents, refer to the "About This Document" section of this document.

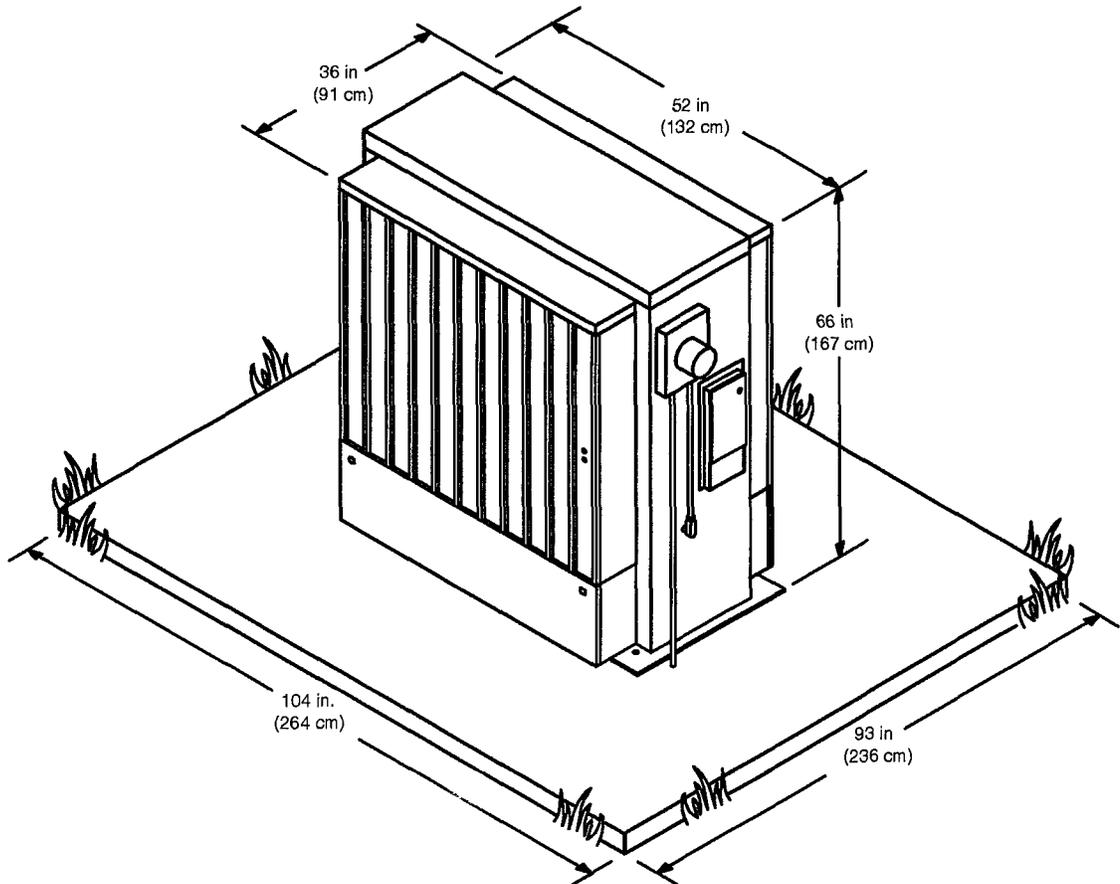
Document	Title
363-205-010	<i>SLC® Series 5 Carrier System, Applications and Planning Guide,</i>
363-206-100	<i>DDM-1000 User/Service Manual</i>
363-206-150	<i>DDM-Plus User/Service Manual</i>
363-206-156	<i>DDM-Plus Equipment Engineering and Ordering Guide</i>
363-206-200	<i>DDM-2000 Multiplexer Application, Planning, and Ordering Guide</i>
363-206-202	<i>DDM-2000 OC-3 Multiplexer User/Service Manual</i>
365-200-106	<i>Small Cross-Section Office Repeater Shelf Description, Installation, and Maintenance</i>
626-500-128	<i>51A Cabinet with SLC Series 5 Carrier System and DDM-Plus Cabinet DT, Splicing and Installation</i>
640-250-237	<i>SLC Series 5 Carrier System, Placement: 51A Remote Terminal Cabinet (ED-7C601-30)</i>
640-250-238	<i>51A Cabinet (Groups 3 & 4) Splicing and Installation</i>
640-250-239	<i>51A Cabinet with DDM-2000 and DDM-Plus Splicing and Equipment Installation</i>
915-710-115	<i>SLC Series 5 Carrier System, Application Engineering</i>
ED-1T210-01	<i>Requirements for 38-Y-4054/4055/4057 Concrete Foundations for Loop Electronics Systems</i>
ED-1T212-01	<i>38-Y-4055 Concrete Foundations</i>

80A Cabinet (ED-7C711-30)

Overview

General

The 80A bulk power (BP) cabinet (refer to following figure) is the newest member of the 80-type cabinet family. The capacity of the 80A is between that of the 51A and 80D cabinets. The 80A is factory assembled and completely prewired. The 80A cabinet is designed to house digital loop carrier systems, including various combinations of *SLC*[®] Series 5 Carrier System dual channel banks (DCBs), multiplexers, DS1 and DDM-Plus extension shelves, and feeder distribution interfaces (FDIs).



(Continued on next page)

Overview (Continued)

General (continued)

Several attractive features of the 80A are side splicing access, bulk power, and batteries housed in a separate area below the electronics. The side splicing design aids installation and provides a larger splicing area. The bulk power system was developed to increase the capacity and range of options available with the cabinet. Housing the batteries separately (below the electronics) extends battery life and efficiently utilizes cabinet space.

The cabinet is constructed of heavy gauge aluminum and finished with a baked-on polyester finish. The cabinet color is beige and chocolate brown. The 80A is weather, fire, and vandal resistant, and it complies with all applicable provisions of Bellcore TR-TSY-000487. The 80A is also suitable for earthquake-prone areas, complying with applicable provisions of Bellcore TR-EOP-000063 NEBS (Network Equipment Building Systems) requirements for Zone 4 earthquake resistance. (Earthquake resistance is not currently specified in Bellcore TR-TSY-000487.) The following table provides general information and capacities for the 80A cabinet assemblies.

80A Cabinet ED-7C711-30	Feeder Type	Series 5 DCBs	SLC®-2000 MDS Assemblies	VF/ DS0 Lines	FDI	DS1 Extensions
Group 13	T1 (metallic)	2	—	384	76-Type, 1000 pr. 108-Type, 1200 pr.	—
Group 14	T1 (metallic)	3*	—	576*	—	—
Group 89	T1 (metallic) or fiber (DDM-Plus*)	1	—	192	76-Type, 600 pr. 108-Type, 600 pr.	—
Group 90	Fiber (DDM-1000 or DDM-2000 OC-3)	2	—	384	—	28
Group 91	Fiber (DDM-1000 or DDM-2000 OC-3)	1	—	192	—	84*
Group 190	Fiber (DDM-2000 OC-12)	0	—	0	—	84
Group 490	Fiber (SLC-2000 ARM)	1	2	576	—	28

*Additional equipment is required.

(Continued on next page)

Overview (Continued)

General (continued)

Use the following table for checking the compatibility of specific ED-7C711-30 group combinations. In the table, a box (■) in any row indicates group compatibility with the cabinet arrangement indicated in the corresponding column but does not indicate that the group is always required. See section "80A Cabinet (ED-7C711-30) Group Descriptions" for group contents, requirements, and special ordering considerations (if any). A cabinet ordered with incompatible group combinations could result in a delay in the shipping of the completed cabinet.

For immediate assistance regarding questions on 80-type cabinets, call **1-800-4CABNET** or **1-800-422-2638**. Call this number Monday through Friday, between the hours of 8 a.m. and 4 p.m. Central standard time (CST).

Plug-in circuit packs are not provided with the 80A cabinet and must be ordered separately from Chapter 5 of this document.

(Continued on next page)

Overview (Continued)

General (continued)

Subgroup Number	Main Cabinet Group Numbers						
	Metallic Feeder		Metallic or Fiber Feeder	Fiber Feeder			
	G13	G14	G89	G90	G91	G190	G490
G1, G2, or G3	■	-	■	-	-	-	-
G4, G5, or G6	-	-	■	-	-	-	-
G7, G8, or G9	■	-	■	-	-	-	-
G10, G11, or G12	■	-	■	-	-	-	-
G19	-	-	-	■	■	■	■
G30, G34, G35, G38, or G41-G45	■	■	■	■	■	■	■
G31	■	■	■	■	■	■	■
G46	■	■	■	■	■	■	■
G50	■	■	■	■	■	-	-
G54 or G55	-	-	-	■	-	-	-
G56 or G57	-	-	-	-	■	-	-
G58 or G59	-	-	-	■	-	-	-
G62 or G63	■	■	■	■	■	-	-
G66 or G67	-	-	-	-	■	-	-
G68 or G69	-	-	-	-	-	■	-
G81	-	-	-	■	■	-	-
G83	-	-	-	■	■	■	-

(Continued on next page)

Overview (Continued)

General (continued)

Subgroup Number	Main Cabinet Group Numbers						
	Metallic Feeder		Metallic or Fiber Feeder	Fiber Feeder			
	G13	G14	G89	G90	G91	G190	G490
G85	■	■	■	■	■	-	-
G95	-	-	-	■	■	-	-
G96	-	-	-	■	■	-	-
G100	■	■	■	■	■	■	■
G119	-	-	■	■	■	■	■
G128	■	■	■	■	■	■	■
G161	■	■	■	■	■	■	■
G177	■	■	■	■	■	■	-
G179	-	-	■	-	■	-	-
G181	-	-	-	-	-	■	-
G185	-	■	-	-	-	-	-
G187	■	■	■	■	■	■	■
G193	-	-	■	-	-	-	-
G194	-	-	■	■	■	■	■
G195	-	-	■	■	■	■	■
G196	-	-	■	■	■	■	■

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Overview (Continued)

General (continued)

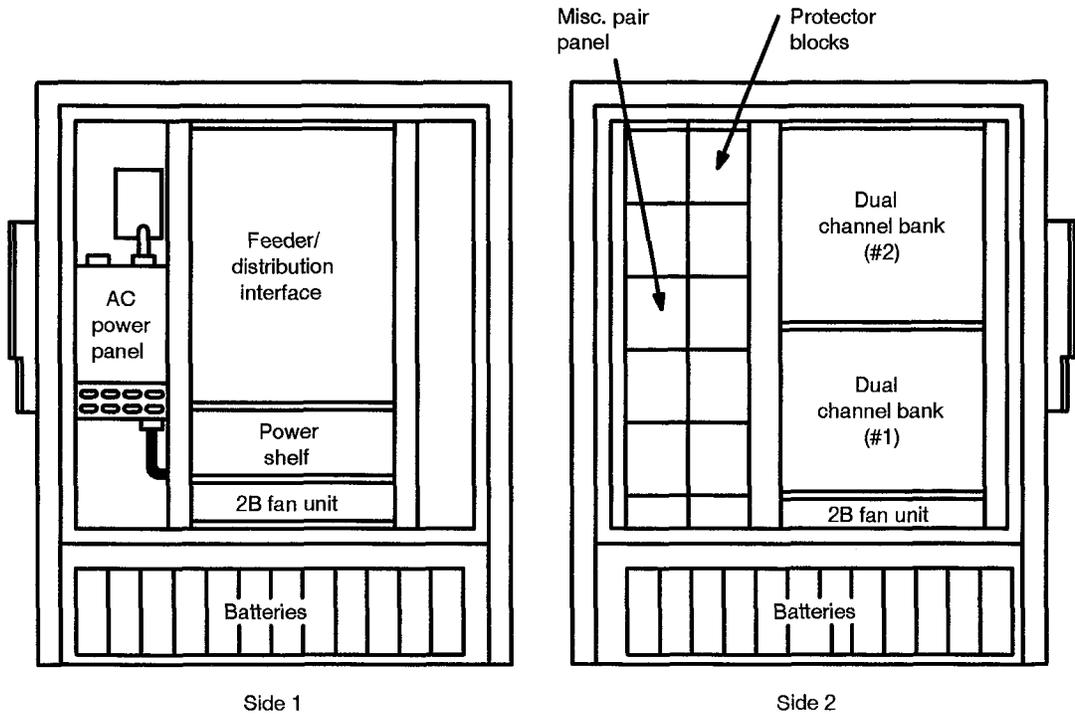
Subgroup Number	Main Cabinet Group Numbers						
	Metallic Feeder		Metallic or Fiber Feeder		Fiber Feeder		
	G13	G14	G89	G90	G91	G190	G490
G197	-	-	■	■	■	■	■
G319	-	-	■	■	■	■	■
G427	-	-	-	-	-	-	■
G428	-	-	-	-	-	-	■
G450	-	-	-	-	-	■	■
G455 or G456	-	-	-	-	-	-	■

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Typical Equipment Arrangements in Cabinet Assemblies

80A cabinet group 13

The following figure provides a typical equipment arrangement for the 80A cabinet group 13. (This arrangement is as shown through 1Q93, after which some changes are scheduled.)



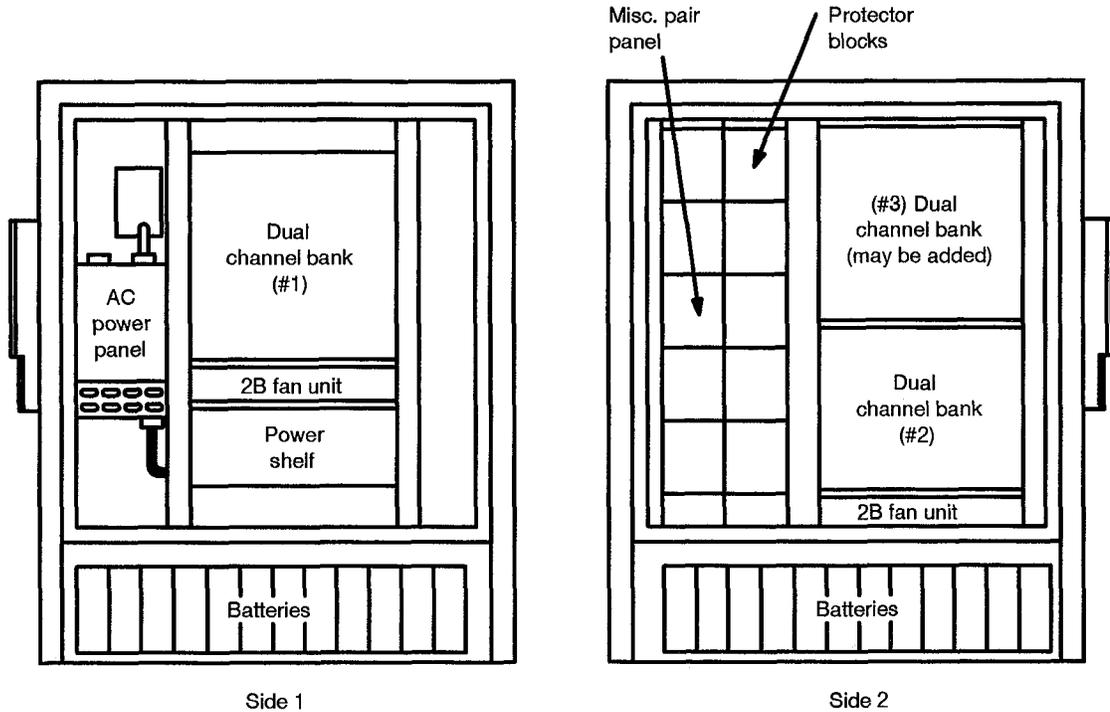
tpa 820297/01

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Typical Equipment Arrangements in Cabinet Assemblies (Continued)

80A cabinet group 14

The following figure provides a typical equipment arrangement for the 80A cabinet group 14. (This arrangement is as shown through 1Q93, after which some changes are scheduled.)



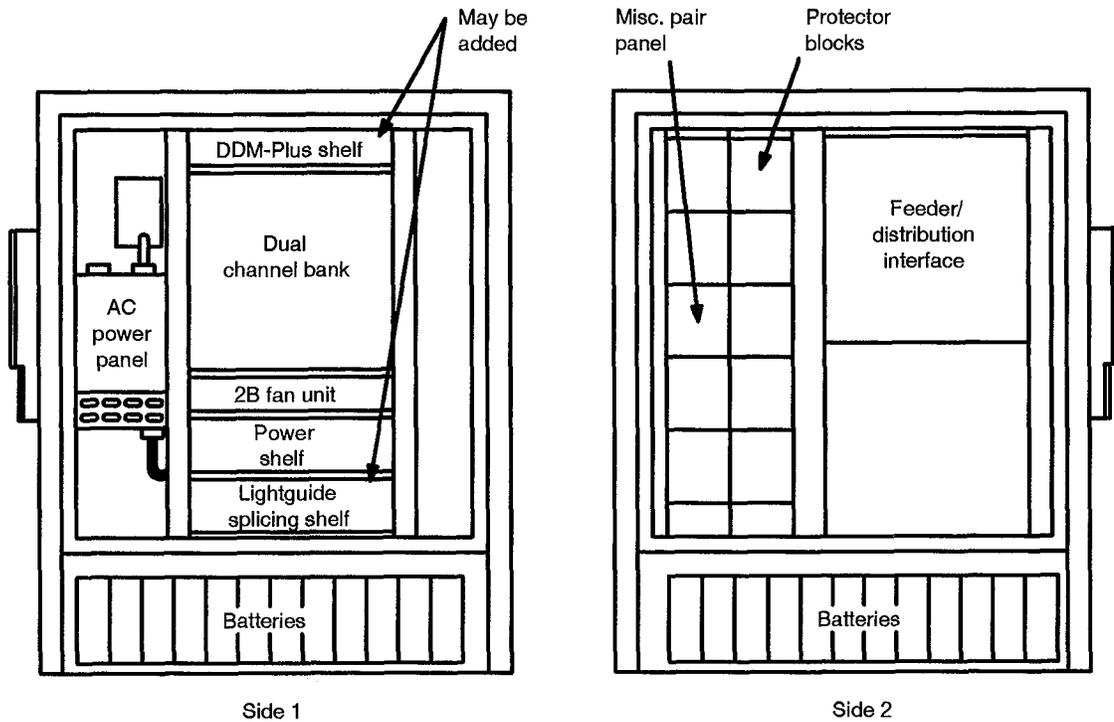
tpa 820298/01

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Typical Equipment Arrangements in Cabinet Assemblies (Continued)

80A cabinet group 89

The following figure provides a typical equipment arrangement for the 80A cabinet group 89. (This arrangement is as shown through 1Q93, after which some changes are scheduled.)



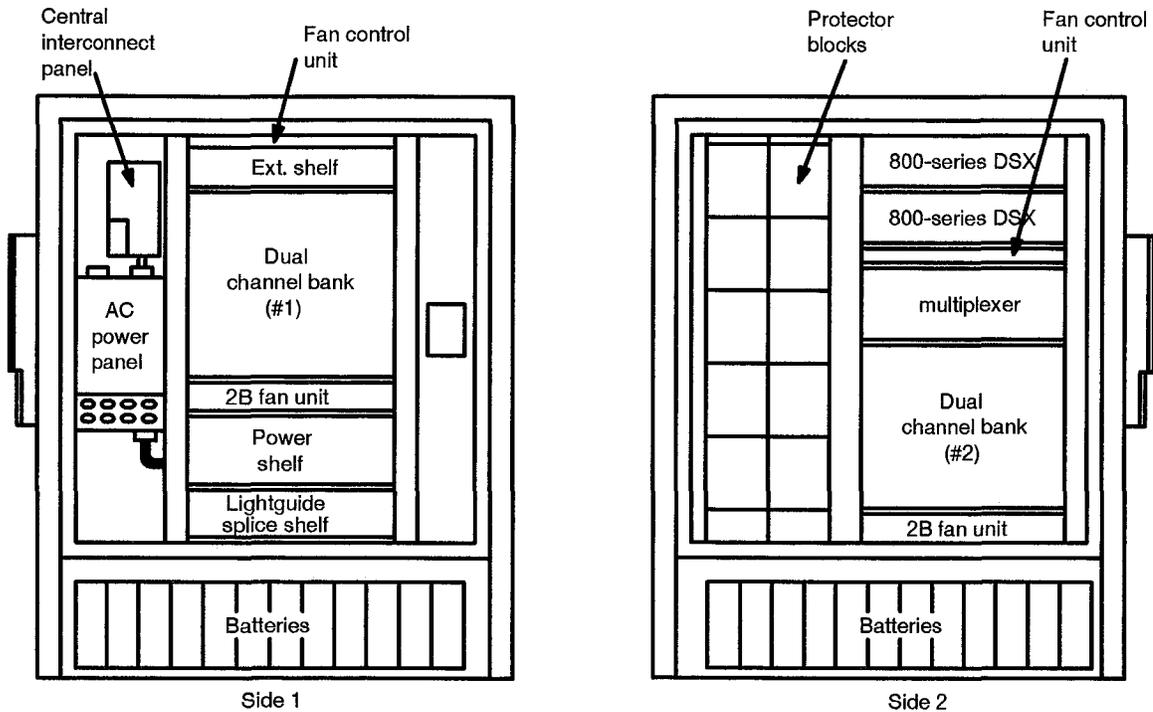
tpa 820299/01

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Typical Equipment Arrangements in Cabinet Assemblies (Continued)

80A cabinet group 90

The following figure provides a typical equipment arrangement for the 80A cabinet group 90. (This arrangement is as shown through 1Q93, after which some changes are scheduled.)



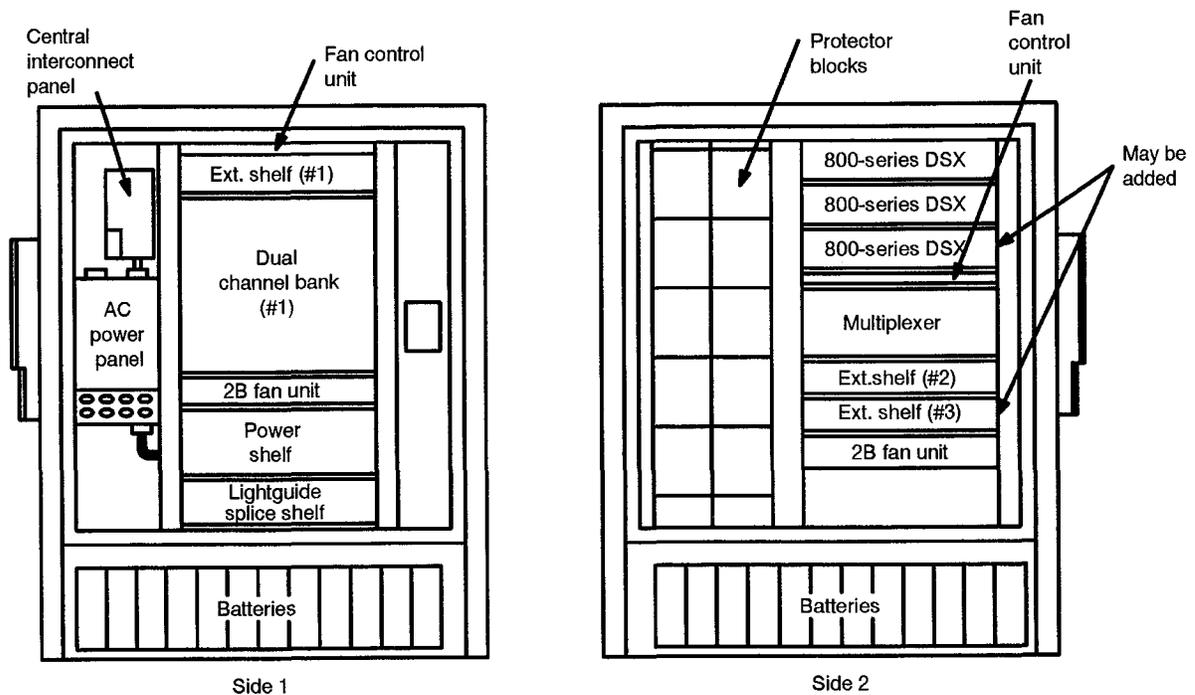
tpa 820300/01

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Typical Equipment Arrangements in Cabinet Assemblies (Continued)

80A cabinet group 91

The following figure provides a typical equipment arrangement for the 80A cabinet group 91. (This arrangement is as shown through 1Q93, after which some changes are scheduled.)



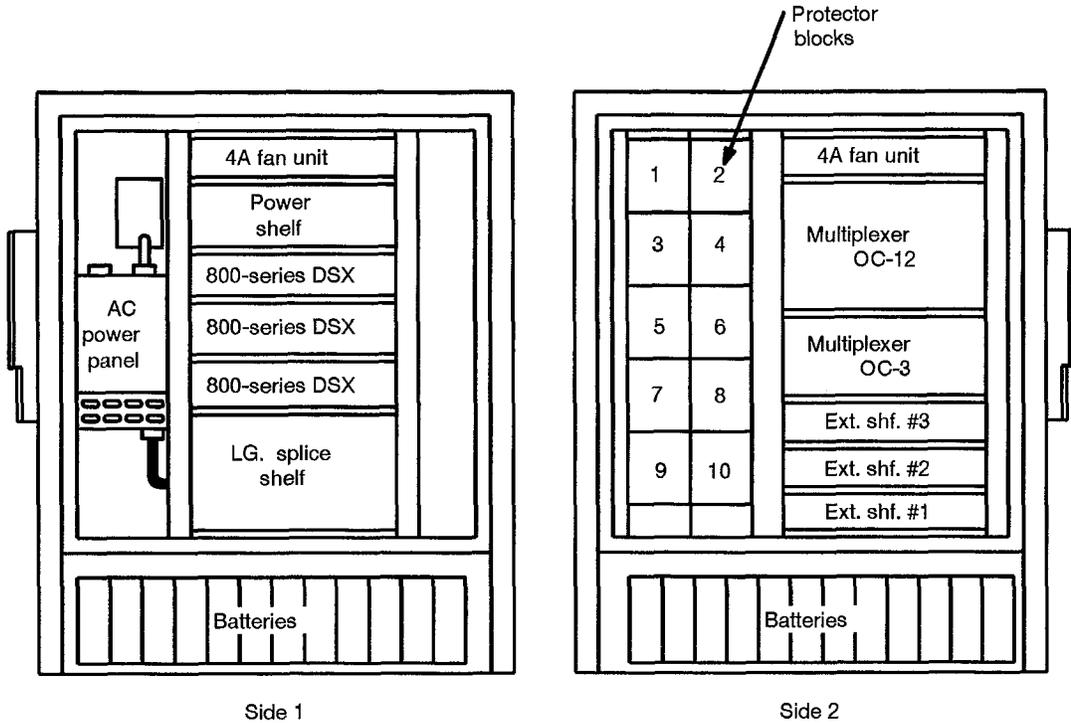
tpa 820301/01

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Typical Equipment Arrangements in Cabinet Assemblies (Continued)

80A cabinet group 190

The following figure provides a typical equipment arrangement for the 80A cabinet group 190. (This arrangement is as shown through 1Q93, after which some changes are scheduled.)

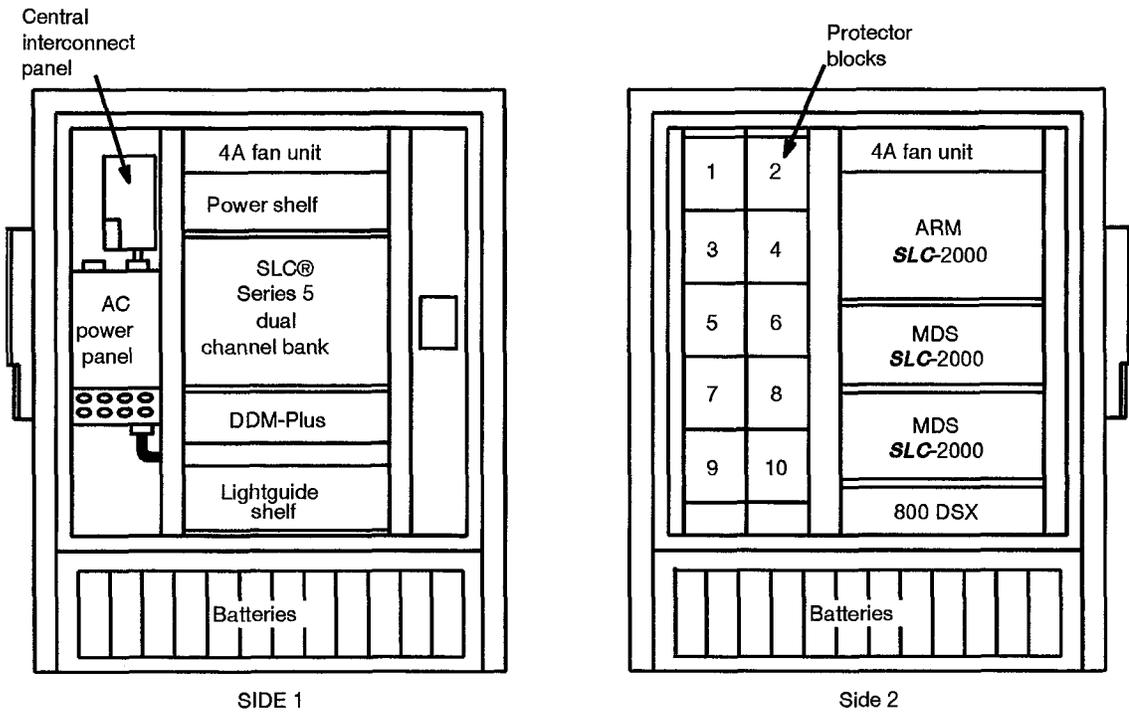


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Typical Equipment Arrangements in Cabinet Assemblies (Continued)

80A cabinet group 490

The following figure provides a typical equipment arrangement for the 80A cabinet group 490. (This arrangement is as shown through 1Q93, after which some changes are scheduled.)



80A (ED-7C711-30) Group Descriptions

Introduction Order wording and group descriptions for the 80A cabinet are shown in ascending order. Group numbers not shown are *unassigned* at the time this document was released. Unless otherwise stated, the maximum per cabinet order for each group number is one. Unless otherwise specified, each group listed has a rating of general availability.

ED-7C711-30, G1 Order in addition to a G13 or G89 cabinet assembly to provide a 600-pair, 76-type binding post FDI with raw-ended harness.

ED-7C711-30, G2 Order in addition to a G13 or G89 cabinet assembly to provide a 600-pair, 76-type binding post FDI with a 710 male connectorized harness.

ED-7C711-30, G3 Order in addition to a G13 or G89 cabinet assembly to provide a 600-pair, 76-type binding post FDI with a 710 capless female connectorized harness.

ED-7C711-30, G4 Order in addition to a G13 or G89 cabinet assembly to provide a 1000-pair, 76-type binding post FDI with raw-ended harness.

ED-7C711-30, G5 Order in addition to a G13 or G89 cabinet assembly to provide a 1000-pair, 76-type binding post FDI with male 710 connectorized harness.

ED-7C711-30, G6 Order in addition to a G13 or G89 cabinet assembly to provide a 1000-pair, 76-type binding post FDI with a 710 capless female connectorized harness.

ED-7C711-30, G7 Order in addition to a G13 or G89 cabinet assembly to provide a 600-pair, 108-type quick-connect FDI with raw-ended harness.

(Continued on next page)

80A (ED-7C711-30) Group Descriptions (Continued)

ED-7C711-30, G8	Order in addition to a G13 or G89 cabinet assembly to provide a 600-pair, 108-type quick-connect FDI with a 710 male connectorized harness.
ED-7C711-30, G9	Order in addition to a G13 or G89 cabinet assembly to provide a 600-pair, 108-type quick-connect FDI with a 710 capless female connectorized harness.
ED-7C711-30, G10	Order in addition to a G13 or G89 cabinet assembly to provide a 1200-pair, 108-type quick-connect FDI with raw-ended harness.
ED-7C711-30, G11	Order in addition to a G13 or G89 cabinet assembly to provide a 1200-pair, 108-type quick-connect FDI with 710 male connectorized harness.
ED-7C711-30, G12	Order in addition to a G13 or G89 cabinet assembly to provide a 1200-pair, 108-type quick-connect FDI with a 710 capless female connectorized harness.
ED-7C711-30, G13	<p>Order this cabinet assembly to receive an 80A cabinet with cabling arranged for up to two Series 5 DCBs (G128s) with metallic (T1) facilities and an FDI. The assembly includes battery heaters, five 307-type protector blocks, one ED-7C629-30, G1 miscellaneous pair panel (MPP), (40) 3B3EW protector units, (9) 3B1EW protector units, and one 6W3F test cord. In addition to the G13 cabinet assembly, you <i>must</i> order/specify one each of the following:</p> <ul style="list-style-type: none">■ FDI per G-G12 (<i>G4-G6 and G10-G12 are recommended</i>)■ Power system per G30, G34, G35, G38, or G41 — G45■ Fan unit per G50■ DC power system per G161. <p>Order a second G50 fan unit when equipping this cabinet assembly with one or more Series 5 DCBs (G128).</p>

(Continued on next page)

80A (ED-7C711-30) Group Descriptions (Continued)

ED-7C711-30, G14 Order this cabinet assembly to receive an 80A cabinet arranged for up to three Series 5 DCBs (G128s) with metallic (T1) facilities. Cabling and protector blocks are included for two Series 5 DCBs (G128s). If a third Series 5 DCB (G128) is ordered, G185 is required. The assembly includes battery heaters, five 307-type protector blocks, one ED-7C629-30, G1 (MPP), (40) 3B3EW protector units, (9) 3B1EW protector units, and one 6W3F test cord. In addition to the G14 cabinet assembly, you *must* order/specify one each of the following:

- Power system per G30, G34, G35, G38, or G4-G45
- Fan unit per G50
- DC power system per G161.

Order a second G50 fan unit when equipping this cabinet assembly with two or more Series 5 DCBs (G128s).

ED-7C711-30, G19 Order **(1 Max.)** in addition to a G90 or G490 cabinet assembly or **(3 Max.)** in addition to a G91 or G190 cabinet assembly to provide a DS1 extension shelf and (56) 3C3EW protector units.

ED-7C711-30, G28^{DA} This group is rated discontinued availability (DA) and is replaced by G128.

ED-7C711-30, G30 Order in addition to a G13, G14, G89, G90, G91, G190, or G490 cabinet assembly to provide an AC power system which includes an AC power panel with interlock, a generator inlet enclosure equipped with a 30A pin and sleeve 240 V, AC 3-phase standard receptacle (Hubbell 430B9W), conduit, and wiring.

ED-7C711-30, G31 Order in addition to a G13, G14, G89, G90, G91, G190, or G490 cabinet assembly to provide a bracket to mount an AC power meter onto the cabinet leg.

(Continued on next page)

80A (ED-7C711-30) Group Descriptions (Continued)

- ED-7C711-30, G34** Order in addition to a G13, G14, G89, G90, G91, G190, or G490 cabinet assembly to provide an AC power system which includes an AC power panel, conduit, and wiring.
-
- ED-7C711-30, G35** Order in addition to a G13, G14, G89, G90, G91, G190, or G490 cabinet assembly to provide an AC power system which includes an AC power panel, a leg-mounted transfer switch equipped with a 30 A *TWIST-LOCK*^{*} electric flush receptacle (Hubbell 2715), conduit, and wiring.
-
- ED-7C711-30, G38** Order in addition to a G13, G14, G89, G90, G91, G190, or G490 cabinet assembly to provide an AC power system which includes an AC power panel with interlock, a generator inlet enclosure equipped with a 30A pin and sleeve 120/240 V AC standard receptacle (Hubbell 430B12W), conduit, and wiring.
-
- ED-7C711-30, G41** Order in addition to a G13, G14, G89, G90, G91, G190, or G490 cabinet assembly to provide an AC power system which includes an AC panel with interlock, a generator inlet enclosure equipped with a 30A *TWIST-LOCK* electric flush receptacle (Hubbell 2715), conduit, and wiring.
-
- ED-7C711-30, G42** Order in addition to a G13, G14, G89, G90, G91, G190, or G490 cabinet assembly to provide an AC power system which includes an AC power panel, a leg-mounted transfer switch equipped with a 30A pin and sleeve 240 V AC, 3-phase standard receptacle (Hubbell 430B9W), conduit, and wiring.
-
- ED-7C711-30, G43** Order in addition to a G13, G14, G89, G90, G91, G190, or G490 cabinet assembly to provide an AC power system which includes an AC power panel, a leg-mounted transfer switch equipped with a 30A pin and sleeve 120/240 V AC standard receptacle (Hubbell 430B12W), conduit, and wiring.
-

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* Registered trademark of Harvey Hubbell, Incorporated.

80A (ED-7C711-30) Group Descriptions (Continued)

- ED-7C711-30, G44** Order in addition to a G13, G14, G89, G90, G91, G190, or G490 cabinet assembly to provide an AC power system which includes an AC power panel, a leg-mounted transfer switch equipped with a 100A pin and sleeve 240 V AC, 3-phase standard receptacle (Hubbell 4100B9W), conduit, and wiring.
-
- ED-7C711-30, G45** Order in addition to a G13, G14, G89, G90, G91, G190, or G490 cabinet assembly to provide an AC power system which includes an AC power panel, a leg-mounted transfer switch equipped with a 100A pin and sleeve 120/240 V AC standard receptacle (Hubbell 4100B12W), conduit, and wiring.
-
- ED-7C711-30, G46** Order in addition to all 80A cabinet assemblies equipped with G44 or G45 to provide AC service to a collocated cabinet.
-
- ED-7C711-30, G50** Order **(2 Max.)** in addition to a G13, G14, G89, G90, or G91 cabinet assembly to provide a 2B fan unit (2B fan unit to be discontinued after 1Q93 and replaced by a 4A fan unit).
-
- ED-7C711-30, G54** Order in addition to a G90 cabinet assembly to provide an 800-series DSX (*without DSX jumpers*) with one shelf wired for two Series 5 DCBs and DDM muldem A and one shelf wired for five Series 5 DCBs (in collocated cabinet) and DDM muldem B. This group also includes one each of the following:
- 800-G2-A1 circuit panel (partially equipped)
 - Y2-5C/24 S200 cross-connect wire spool (200 feet).
-
- ED-7C711-30, G55** Order in addition to a G90 cabinet assembly to provide an 800-series DSX (*without DSX jumpers*) with one shelf wired for two Series 5 DCBs and DDM muldem A and one shelf wired for one 28-slot extension shelf and DDM muldem B. This group also includes one each of the following:
- 800-G2-A1 circuit panel (partially equipped)
 - Y2-5C/24 S200 cross-connect wire spool (200 feet).
-

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80A (ED-7C711-30) Group Descriptions (Continued)

ED-7C711-30, G56 Order in addition to a G91 to provide an 800-series DSX (*without DSX jumpers*) with one shelf wired for one Series 5 DCB, one 28-slot extension shelf and DDM muldem A, and one shelf wired for a second 28-slot extension shelf and DDM muldem B. This group also includes one each of the following:

- 800-G2-A1 circuit panel (partially equipped)
 - Y2-5C/24 S200 cross-connect wire spool (200 feet).
-

ED-7C711-30, G57 Order in addition to a G91 cabinet assembly to provide an 800-series DSX with DSX jumpers arranged for one Series 5 DCB and 48 DS1 extensions with one shelf wired for one 28-slot extension shelf and DDM muldem A and one shelf wired for a second 28-slot extension shelf and DDM muldem B. This group also includes one each of the following:

- 800-G2-A1 circuit panel (partially equipped)
 - Y2-5C/24 S200 cross-connect wire spool (200 feet).
-

ED-7C711-30, G58 Order in addition to a G90 cabinet assembly to provide an 800-series DSX with DSX jumpers arranged for seven Series 5 DCBs with one shelf wired for two Series 5 DCBs and DDM muldem A and one shelf wired for five Series 5 DCBs (in a collocated cabinet) and DDM muldem B. This group also includes one each of the following:

- 800-G2-A1 circuit panel (partially equipped)
 - Y2-5C/24 S200 cross-connect wire spool (200 feet).
-

ED-7C711-30, G59 Order in addition to a G90 cabinet assembly to provide an 800-series DSX with DSX jumpers arranged for two Series 5 DCBs and 28 DS1 extensions with one shelf wired for two Series 5 DCBs and DDM muldem A and one shelf wired for one 28-slot extension shelf and DDM muldem B. This group also includes one each of the following:

- 800-G2-A1 circuit panel (partially equipped)
 - Y2-5C/24 S200 cross-connect wire spool (200 feet).
-

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80A (ED-7C711-30) Group Descriptions (Continued)

ED-7C711-30, G62  **NOTE:**
Batteries are not included with this group and must be ordered separately.

Order **(2 Max.)** in addition to a G13, G14, G89, G90, G91, G190, or G490 cabinet assembly to provide battery cables and associated material for one 100 ampere-hour string of *CHLORIDE** 3VB11 batteries.

ED-7C711-30, G63  **NOTE:**
Batteries are not included with this group and must be ordered separately.

Order **(2 Max.)** in addition to a G13, G14, G89, G90, G91, G190, or G490 cabinet assembly to provide battery cables and associated material for one 118 ampere-hour string of Lucent Technologies *Lineage*®VR Series batteries.

ED-7C711-30, G66 Order in addition to a G91 cabinet assembly [equipped with G56] to provide wiring for a third extension shelf and an 800-series DSX shelf (*without DSX jumpers*) wired for one 28-slot extension shelf and DDM muldem C. This group also includes one each of the following:

- 800-G2-A1 circuit panel (partially equipped)
- Y2-5C/24 S200 cross-connect wire spool (200 feet)
- 307-type protector block.

ED-7C711-30, G67 Order in addition to a G91 cabinet assembly (equipped with G57) to provide wiring for a third extension shelf and an 800-series DSX equipped with DSX jumpers wired for 28 DS1 extensions and DDM muldem C. This group also includes one each of the following:

- 800-G2-A1 circuit panel (partially equipped)
- Y2-5C/24 S200 cross-connect wire spool (200 feet)
- 307-type protector block.

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* Registered trademark of Chloride Group Plc.

80A (ED-7C711-30) Group Descriptions (Continued)

ED-7C711-30, G68 Order in addition to a G190 cabinet assembly to provide an 800-Series DSX with three shelves, with each shelf wired for one 28-slot extension shelf and one DDM-2000 muldem.



NOTE:

DSX jumpers are not provided and must be ordered separately.

ED-7C711-30, G81 Order in addition to a G90 or G91 cabinet assembly to provide a DDM-1000 multiplexer shelf, 112A fan control unit, and associated wiring. The DDM-1000 shelf supplied is the ED-2C841-30, G2 equipped with one each ED-2C833-20, G10, G11, G12, G13 cable assemblies.

ED-7C711-30, G83 Order in addition to a G90, G91, or G190 cabinet assembly to provide a DDM-2000 OC-3 Multiplexer shelf and associated wiring. The DDM-2000 OC-3 multiplexer shelf supplied is the ED-8C724-30, G1 equipped with the following cable assemblies:

- ED-8C724-21, G401-G412 (one each)
 - Comcode 846598019 power and alarm cable assembly (one)
 - Comcode 846598001 cable assembly (six)
 - Comcode 846597995 cable assembly (six).
-

ED-7C711-30, G85 Order in addition to a G13, G14, G89, G90, or G91 cabinet assembly to provide a cable assembly used to activate the fan units for humidity control in a sparsely equipped cabinet.

(Continued on next page)

80A (ED-7C711-30) Group Descriptions (Continued)

ED-7C711-30, G89 Order this assembly to receive an 80A cabinet arranged for one Series 5 DCB using metallic (T1) facilities and an FDI. The assembly includes battery heaters, three 307-type protector blocks, one ED-7C629-30, G1 miscellaneous pair panel, (20) 3B3EW protector units, (9) 3B1EW protector units, and one 6W3F test cord. A DDM-Plus Extension Shelf (G319) may be installed for quad DS1 optical feeder instead of metallic (T1) feeder. A lightguide splicing shelf per G195 or G196 and DSX per G193 is required in addition to the G319. In addition to the G89 cabinet assembly, you *must* order/specify one each of the following:

- FDI per G1-G12
- Power system per G30, G34, G35, G38, or G41-G45
- Fan unit per G50
- DC power system per G161.

A G89 cabinet assembly equipped with G193, G319, and G195 or G196 is provided with four optical jumpers. Additional optical jumpers may be ordered in groups of four per G194 or G197.

ED-7C711-30, G90 Order this assembly to receive an 80A cabinet arranged for up to two Series 5 DCBs, one DDM-1000 or DDM-2000 OC-3 multiplexer with lightguide feeder and a 28-slot DS1 extension shelf or a DDM-Plus Extension Shelf. The assembly includes a central interface panel (CIP), battery heaters, five 307-type protector blocks, (11) 3B1EW protector units, one 6W3F test cord, and one 112A fan control unit. In addition to the G90 cabinet assembly, you *must* order/specify one each of the following:

- AC power system per G30, G34, G35, G38, or G41-G45
- 800-series DSX per G54, G55, G58, or G59
- Multiplexer per G81 (DDM-1000) or G83 (DDM-2000)
- DC power system per G161
- Lightguide splicing shelf per G95 or G96 (for DDM-1000 equipped cabinet) **or** per G195 or G196 (for DDM-2000 equipped cabinet).

Two fan units per G50, up to two Series 5 DCBs per G128, and up to one extension shelf per G19 (DS1) or G119 (DDM-Plus) should also be ordered with the G90 cabinet assembly.

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80A (ED-7C711-30) Group Descriptions (Continued)

- ED-7C711-30, G91** Order this assembly to receive an 80A cabinet arranged for up to two Series 5 DCBs, one DDM-1000 or DDM-2000 OC-3 multiplexer with lightguide feeder and up to two 28-slot extension shelves. A third extension shelf may be installed if additional cables and apparatus are provided by ordering G185 with the third extension shelf. The assembly includes a CIP, battery heaters, four 307-type protector blocks, (11) 3B1EW protector units, one 6W3F test cord, and one 112A fan control unit. In addition to the G91 cabinet assembly, you *must* order/specify one each of the following:
- Power system per G30, G34, G35, G38, or G41-G45
 - 800 DSX per G55 or G56
 - Multiplexer per G81 (DDM-1000) or G83 (DDM-2000)
 - Lightguide splicing shelf per G95 or G96 (for DDM-1000 equipped cabinet) **or** per G195 or G196 (for DDM-2000 equipped cabinet)
 - DC power system per G161.

Two fan units per G50, one Series 5 DCB per G128, and up to three extension shelves per G19 (DS1) or G119 (DDM-Plus) should also be ordered with the G91 cabinet assembly.

- ED-7C711-30, G95** Order in addition to a G90 or G91 cabinet assembly (equipped with G81) to provide an LSC2U-024/5 biconic lightguide splice shelf and related apparatus.
-

- ED-7C711-30, G96** Order **(2 Max.)** in addition to a G90 or G91 cabinet assembly (equipped with G81) to provide an LST1RP-48ST/2.5 lightguide splice shelf and related apparatus.
-

- ED-7C711-30, G100** This bracket (previously ordered as 128F) is used to accurately locate the mounting inserts and cable openings in the concrete pad and becomes a permanent part of the pad.
-

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80A (ED-7C711-30) Group Descriptions (Continued)

ED-7C711-30, G119 Order **(1 Max.)** in addition to a G90 or G490 or **(3 Max.)** in addition to a G91 or G190 cabinet assembly to provide one DDM-Plus extension shelf. This group also includes the following cables and equipment:

- ED-8C732-20, G1 power cable
- ED-8C732-20, G5 line cable
- ED-8C732-20, G6 DSX/equipment cable
- ED-8C732-20, G7 miscellaneous discretes cable
- (56) 3C3EW protector units
- ED-7C711-30, G128.

Order **(2 Max.)** in addition to a G13 or G90 cabinet assembly, **(3 Max.)** in addition to a G14, or **(1 Max.)** in addition to a G89, G91, or G490 cabinet assembly to provide one Series 5 DCB (J1C182AE-1, L3). Each G128 ordered includes 192 derived pair protector units (3C1EW). All associated circuit packs must be ordered separately. (See Chapter 5.)

ED-7C711-30, G161 **Always required;** order in addition to a G13, G14, G89, G90, G91, G190, or G490 cabinet assembly to provide the -48 V DC bulk power system.

ED-7C711-30, G177 Order **(1 Max.)** in addition to a G128 cabinet assembly (equipped with Feature Package I in G13, G14, G89, G90, or G91 cabinets) to provide an FMU cable.

ED-7C711-30, G179 Order **(1 Max.)** in addition to a G89 and G91 cabinet assembly to provide wiring for Teradyne 4TEL Computer-Controlled Diagnostic System *RMU* telephone line test measurement apparatus and Line Test Fanout.

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80A (ED-7C711-30) Group Descriptions (Continued)

ED-7C711-30, G181 Order in addition to a G190 cabinet assembly to provide a DDM-2000 OC-12 Multiplexer shelf. The following items are provided:

- ED-8C727-30, G1 shelf
- 846872976 power cord
- (4) *ST* lightguide connector to *ST* lightguide connector jumpers
- ED-7C711-30, G185.

Order in addition to a G14 cabinet assembly to provide cables for a third Series 5 DCB. Two 307-type protector blocks, (20) 3B3EW protector units, one fan control extension cable, and one protector block ground cable assembly are included.

ED-7C711-30, G187 Order in addition to a G13, G14, G89, G90, G91, G190, or G490 cabinet assembly to provide a documentation notebook which includes all Lucent Technologies practices on the 80A cabinet.

ED-7C711-30, G190 Order this assembly to receive an 80A cabinet arranged for one DDM-2000 OC-3, one DDM-2000 OC-12 multiplexer with lightguide feeder, and up to three DS1 or DDM-Plus extension shelves. The assembly includes a central interconnect panel (CIP), battery heaters, (3) 307-type protector blocks, (10) 3B1EW protector units, and one 6W3F test cord. In addition to the G190 cabinet assembly, you *must* order/specify one each of the following:

- AC power system per G30, G34, G35, G38, or G41-G45
- 800 Series DSX per G68 or G69
- DDM-2000 OC-3 Multiplexer per G83
- DC power system per G161
- Lightguide splicing shelf per G195 or G196.

Two fan units per 6450, up to three extension shelves per G19 (DS1) or G119 (DDM-Plus), and one DDM-2000 OC-12 multiplexer per G181 should also be ordered with the G190 cabinet assembly.

(Continued on next page)

80A (ED-7C711-30) Group Descriptions (Continued)

- ED-7C711-30, G193** Order in addition to a G89 cabinet assembly to provide cables and DSX panel for a DDM-Plus extension shelf per G319.
-
- ED-7C711-30, G194** Order (**7 Max.**) in addition to a G89, G90, G91, or G190 cabinet assembly (equipped with G96 or G196) to provide four *ST-ST* jumpers for the DDM-Plus quad DS1 extensions or DDM-2000 OC-3 extensions.
-
- ED-7C711-30, G195** Order in addition to a G90, G91, G190, or G490 cabinet assembly (equipped with G83) or a G89 cabinet assembly (equipped with G193) to provide an LSC2U-024/5 biconic lightguide splicing shelf and associated apparatus.
-
- ED-7C711-30, G196** Order (**2 Max.**) in addition to a G90, G91, G190, or G490 cabinet assembly (equipped with G83) or a G89 cabinet assembly (equipped with G193) to provide an LST1RP-48ST/2.5 lightguide splicing shelf and associated apparatus.
-
- ED-7C711-30, G197** Order (**3 Max.**) in addition to a G89, G90, G91, or G190 cabinet assembly (equipped with G95 or G195) to provide four *ST*-biconic lightguide jumpers for DDM-Plus quad DS1 extensions or DDM-2000 OC-3 extensions.
-
- ED-7C711-30, G319** Order in addition to a G89 cabinet assembly (equipped with G90, G91, G190, G193, or G490 cabinet assembly) to provide a DDM-Plus extension shelf for quad DS1 optical extensions. Protector units are not provided. This group also includes the following cables:
- ED-8C732-20, G1 power cable
 - ED-8C732-20, G5 line cable
 - ED-8C732-20, G6 DSX/equipment cable
 - ED-8C732-20, G7 miscellaneous discretes cable
 - ED-7C711-30, G427.
- Order (**1 Max.**) in addition to a G490 cabinet assembly to provide a *SLC-2000* Access System access resource manager (ARM) shelf and associated wiring.
-

(Continued on next page)

80A (ED-7C711-30) Group Descriptions (Continued)

ED-7C711-30, G428 Order **(2 Max.)** in addition to a G490 cabinet assembly to provide a *SLC-2000* Access System metallic distribution shelf (MDS) assembly.

ED-7C711-30, G450 Order **(2 Max.)** in addition to a G190 or G490 cabinet assembly to provide a 4A fan unit. (also in addition to G13, G14, G89, G90, and G91 cabinet assembly effective 2Q93).

ED-7C711-30, G455 Order **(1 Max.)** in addition to a G490 cabinet assembly to provide an 800 Series DSX. The DSX is assembled for one *SLC* Series 5 Carrier System DCB and 28 DS1 extensions.



NOTE:

The DSX is not equipped with jumpers. They must be ordered separately.

ED-7C711-30, G456 Order **(1 Max.)** in addition to a G490 cabinet assembly to provide an 800 Series DSX. The DSX is equipped with jumpers configured for one *SLC* Series 5 Carrier System DCB and 20 DS1 extensions.

ED-7C711-30, G490 Order this assembly to receive the cabinet assembly, wiring, and apparatus required for one 80A cabinet configured to accommodate the following:

- (1) *SLC* Series 5 Carrier System DCB and a DDM-Plus extension shelf on Side 1
- (1) *SLC-2000* Access System ARM shelf and two MDS assemblies on Side 2.

Batteries and Miscellaneous Equipment

Introduction This section provides information on batteries and miscellaneous equipment needed for cabinet maintenance or installation.

Key Order this item to receive an Allen key-wrench used to unlock/lock the cabinet door.
Comcode 840841324

KS-23619, L3 The Lucent Technologies *Lineage*[®]2000 VR-Series battery plant battery may be ordered in quantities of 12 (string) or individually. To order a string of 12 KS-23619, L3 batteries, specify the equipment code (ED-number) instead of using the individual comcode number or KS-number.

12 Battery string:
ED-83242-31, G3

Individual battery:
Comcode 406020354

Lucent Technologies battery string cable for KS-23619, L3 (included with G63)
Comcode 846756369

3VB11 This battery is manufactured by Chloride Group Plc. and can be ordered in quantities of eight (string) or individually.

Eight battery string:
Comcode 405890336

Individual battery:
Comcode 405259623

(Continued on next page)

Batteries and Miscellaneous Equipment (Continued)

3VB11 (continued) Battery cables may be ordered by kit or by individual cable. Select the appropriate comcode number and description.

CHLORIDE battery string cable kit

Comcode 846684503

The cable kit includes the cables listed below:

CHLORIDE battery string cable (included with G62)

Comcode 846756351

CHLORIDE battery extension cable (included with G62)

Comcode 846665214

CHLORIDE battery cable (barrier) assemblies (eight included with G62)

Comcode 846665115 (quantity of eight assemblies)

W4DE The W4DE "access" test cord is 5 feet long and used when fault-locating T1 extensions from 80-type cabinets. Connection is made between the signal generator jack of the fault locate test set and the 4C12C protector position. One test cord is shipped with each 80-type cabinet. Order only if multiple cords or replacement cords are needed.

Comcode 105329395

W4DF The W4DF "looping" test cord is 3 feet long and is used to loop the digital line. This cord replaces the 4C12C transmit and receive protector units. [A 262C terminating plug must be inserted in appropriate FL jack on the load distribution unit (LDU).] The W4DF is not included in any cabinet group and must be ordered separately.

Comcode 105414973

216C This tool is used to open the cabinet door.

Comcode 102450574

80A Cabinet Related Documentation

**List of 80A cabinet
related
documentation**

The following table lists Lucent Technologies documentation where additional information may be found concerning the 80A cabinet and associated equipment. To order one or more of the following documents, refer to the "About This Document" section of this document.

Document	Title
157-622-010	<i>Lineage®2000 VR Series Battery Product Manual</i>
363-205-010	<i>SLC®Series 5 Carrier System Applications and Planning Guide</i>
363-206-100	<i>DDM-1000 User/Service Manual</i>
363-206-150	<i>DDM-Plus User/Service Manual</i>
363-206-156	<i>DDM-Plus Equipment Engineering and Ordering Guide</i>
363-206-200	<i>DDM-2000 Multiplexer Application, Planning, and Ordering Guide</i>
363-206-202	<i>DDM-2000 OC-3 Multiplexer User/Service Manual</i>
626-500-105	<i>80-Type Cabinets - Coding Scheme, Ordering Information, and Lettering Guidelines</i>
631-600-246	<i>80A (Bulk Power) Cabinet Installation</i>
631-600-247	<i>80A (Bulk Power) Remote Terminal Cabinet General Description</i>
631-600-248	<i>80A Documentation Notebook (Contains all Lucent Technologies 80A practices)</i>
640-250-273	<i>80A (Bulk Power) Cabinet (Group 490) Splicing and Equipment Installation</i>
640-250-276	<i>80A (Bulk Power) Cabinet (Groups 13, 14, 89) Splicing and Equipment Installation</i>

(Continued on next page)

80A Cabinet Related Documentation (Continued)

List of 80A cabinet
related
documentation
(continued)

Document	Title
640-250-277	<i>80A (Bulk Power) Cabinet (Groups 90 and 91) Splicing and Equipment Installation</i>
640-250-293	<i>80A (Bulk Power) Cabinet (Group 190) Splicing and Equipment Installation</i>
631 WIP 043V	<i>80A (Bulk Power) Cabinet Installation and Splicing</i>
640 WIP 024V	<i>80-Type Cabinets - Foundation Pad Construction</i>
915-710-115	<i>SLC Series 5 Carrier System Application Engineering Practice (Issue 2 or higher)</i>
J1C182AE-1	<i>RT Dual Channel Bank</i>
J1C182BD-1	<i>RT Power Shelf</i>
ED-1T285-01	<i>Concrete Pad for 80A Size Cabinet</i>

80D Cabinet (ED-7C621-30)

Overview

General

The 80D distributed power cabinet (ED-7C621-30) is shipped factory assembled and completely prewired. Each cabinet is equipped with an AC power panel and 307-type connector blocks. Protector units for the ultimate capacity of digital lines and miscellaneous pairs are provided with each cabinet. Protector units for derived pairs are provided with each channel bank assembly initially installed in a cabinet. The 80D cabinet is available with or *without* DSX tie-block jumper cables. The 80D cabinet is also available with or *without* feeder distribution interface (FDI) equipment and in various combinations of associated equipment, including the DDM-1000 multiplexer and/or small cross-section shelves (SXSS) T-repeater shelves.

The 80D cabinet may be arranged for either *SLC 96* or *SLC Series 5 Carrier Systems*. Plug-in circuit packs *are not* provided with the 80D cabinet and must be ordered separately. For ordering Series 5 Carrier System plug-ins, see Chapter 5 of this document. For *SLC 96* Carrier System plug-ins, see Document 363-202-000.

Compatibility of ED-7C621-30 Group Combinations

**Distributed power
cabinets with
metallic feeder**

Use the following table to check the compatibility of specific ED-7C621-30 group combinations for distributed power cabinets with metallic feeder. In the table, a box (■) in any row indicates group compatibility with the cabinet assembly in the column but does not indicate that the group is always required. A cabinet ordered with incompatible group combinations could result in a delay in the shipping of the completed cabinet.

(Continued on next page)

Compatibility of ED-7C621-30 Group Combinations (Continued)

Distributed power cabinets with metallic feeder (continued)

Sub-group No.	Main Cabinet Group Numbers Arranged for SLC® Series 5 and SLC 96 Carrier Systems																		
	G1	G2	G3	G4	G5	G6	G7	G8	G9	G10	G11	G12	G13	G14	G15	G16	G17	G18	G160
G22	-	-	-	-	-	-	-	-	-	-	-	-	-	■	-	-	-	-	-
G23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	■	■	■	■	-
G30	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
G31	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
G32	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
G33	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
G34	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
G35	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
G36	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
G37	■	■	■	■	■	■	■	■	■	■	■	■	■	-	-	-	-	-	-
G38	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
G39	-	-	-	-	-	-	-	-	-	-	-	-	-	■	■	■	■	■	■
G49*	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
G84	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
G125	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
G126	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
G137	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
G138	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	■
G139	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
G143	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
G144	■	■	■	■	■	■	■	■	■	■	■	■	■	■	-	-	-	-	■
G179	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
G184	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■

*Cannot be used if G32 is used.

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Compatibility of ED-7C621-30 Group Combinations (Continued)

**Distributed power
cabinets with
fiber feeder**

Use the following table to check the compatibility of specific ED-7C621-30 group combinations for distributed power cabinets with fiber feeder. In the table, a box (■) in any row indicates group compatibility with the cabinet assembly in the column, but does not indicate that the group is always required. A cabinet ordered with incompatible group combinations could result in a delay in the shipping of the completed cabinet.

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Compatibility of ED-7C621-30 Group Combinations (Continued)

Distributed power
cabinets with
fiber feeder

Sub- group No.	Main Cabinet Group Numbers Arranged for <i>SLC</i> ® Series 5 and <i>SLC</i> 96 Carrier Systems										
	G29	G47	G48	G71	G72	G90	G91	G92	G97	G98	G99
G19	■	■	-	-	-	-	-	-	-	-	-
G23	■	-	-	-	-	-	-	-	-	-	-
G30	■	■	■	■	■	■	■	■	■	■	■
G31	■	■	■	■	■	■	■	■	■	■	■
G32	■	■	■	■	■	■	■	■	■	■	■
G33	■	■	■	■	■	■	■	■	■	■	■
G34	■	■	■	■	■	■	■	■	■	■	■
G35	-	-	-	-	■	■	■	■	■	■	■
G36	-	-	-	-	■	■	■	■	■	■	■
G38	■	■	■	■	■	■	■	■	■	■	■
G49*	■	■	■	■	■	■	■	■	■	■	■
G52	-	■	■	-	-	-	-	-	-	-	-
G53	-	-	■	-	-	-	-	-	-	-	-
G54	■	-	-	-	-	-	-	-	-	-	-
G55	■	-	-	-	-	-	-	-	-	-	-
G57	■	-	-	-	-	-	-	-	-	-	-
G59	■	-	-	-	-	-	-	-	-	-	-
G64	-	-	■	-	-	-	-	-	-	-	-
G66	-	■	-	-	-	-	-	-	-	-	-
G69	-	-	■	-	-	-	-	-	-	-	-
G78	-	-	-	■	-	■	■	-	■	■	-
G79	-	-	-	-	■	-	-	■	-	-	■

* Cannot be used if G32 is used.

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Compatibility of ED-7C621-30 Group Combinations (Continued)

Distributed power cabinets with fiber feeder (continued)

Sub-group No.	Main Cabinet Group Numbers Arranged for SLC® Series 5 and SLC 96 Carrier Systems										
	G29	G47	G48	G71	G72	G90	G91	G92	G97	G98	G99
G81	-	-	-	■	-	■	■	-	■	■	-
G82	-	-	-	■	■	■	■	■	■	■	■
G83	-	■	■	-	-	-	-	-	-	-	-
G84	■	■	■	■	■	■	■	■	■	■	■
G93	-	-	-	■	■	■	■	■	-	■	■
G94	■	-	-	-	■	-	-	■	-	-	■
G95	-	-	-	■	■	■	■	■	■	■	■
G96	-	-	-	■	■	■	■	■	■	■	■
G125	■	■	■	■	■	■	■	■	■	■	■
G126	-	■	■	■	■	■	■	■	■	■	■
G137	■	■	■	■	■	■	■	■	■	■	■
G138	-	-	-	-	-	-	-	-	-	-	-
G139	■	■	■	■	■	■	■	■	■	■	■
G143	-	-	-	-	-	■	■	■	■	■	■
G144	-	-	-	-	-	■	■	■	■	■	■
G179	■	■	■	■	■	■	■	■	■	■	■
G183	■	■	■	-	-	-	-	-	-	-	-
G184	■	■	■	■	■	■	■	■	■	■	■
G195	■	■	■	-	-	-	-	-	-	-	-
G196	■	■	■	-	-	-	-	-	-	-	-

(Continued on next page)

Compatibility of ED-7C621-30 Group Combinations (Continued)

Distributed power cabinets with metallic feeder (SLC 96 Carrier Systems only)

Use the following table to check the compatibility of specific ED-7C621-30 group combinations for distributed power cabinets with metallic feeder (96 Carrier Systems only). In the table, a box (■) in any row indicates group compatibility with the cabinet assembly in the column but does not indicate that the group is always required. A cabinet ordered with incompatible group combinations could result in a delay in the shipping of the completed cabinet.

Sub-group No.	Main Cabinet Group Numbers Arranged for SLC [®] 96 Carrier Systems													
	G101	G102	G103	G104	G105	G106	G107	G108	G109	G110	G121	G122	G123	G124
G30	■	■	■	■	■	■	■	■	■	■	■	■	■	■
G38	■	■	■	■	■	■	■	■	■	■	■	■	■	■
G31	■	■	■	■	■	■	■	■	■	■	■	■	■	■
G32	■	■	■	■	■	■	■	■	■	■	■	■	■	■
G33	■	■	■	■	■	■	■	■	■	■	■	■	■	■
G34	■	■	■	■	■	■	■	■	■	■	■	■	■	■
G35	■	■	■	■	■	■	■	■	■	■	■	■	■	■
G36	■	■	■	■	■	■	■	■	■	■	■	■	■	■
G37	■	■	■	■	■	■	■	■	■	-	-	-	-	-
G39	-	-	-	-	-	-	-	-	-	■	■	■	■	■
G49*	■	■	■	■	■	■	■	■	■	■	■	■	■	■
G84	■	■	■	■	■	■	■	■	■	■	■	■	■	■
G138	■	■	■	■	■	■	■	■	■	■	■	■	■	■
G139	■	■	■	■	■	■	■	■	■	■	■	■	■	■
G143	■	■	■	■	■	■	■	■	■	■	■	■	■	■
G144	■	■	■	■	■	■	■	■	■	-	■	■	■	■
G179	■	■	■	■	■	■	■	■	■	■	■	■	■	■
G184	■	■	■	■	■	■	■	■	■	■	■	■	■	■

* Cannot be used if G32 is used.

80D Cabinet (ED-7C621-30) Group Descriptions

Introduction Order wording and group descriptions for the 80D cabinet are shown in ascending order. Group numbers not shown are *unassigned* at the time this document was released. Unless otherwise stated, the maximum per cabinet order for each group number is one. Unless otherwise specified, each group listed has a rating of general availability.

ED-7C621-30, G1 Order this cabinet to receive an 80D cabinet assembly, wiring, and apparatus needed for mounting two Series 5 DCBs or *SLC* 96 Carrier System channel banks and an 1800-pair, 76-type binding post serving area interface (SAI) with a raw-ended harness.

ED-7C621-30, G2 Order this cabinet to receive an 80D cabinet assembly, wiring, and apparatus needed for mounting two Series 5 DCBs or *SLC* 96 Carrier System channel banks and an 1800-pair, 76-type binding post SAI with a 710 male connectorized harness.

ED-7C621-30, G3 Order this cabinet to receive an 80D cabinet assembly, wiring, and apparatus needed for mounting two Series 5 DCBs or *SLC* 96 Carrier System channel banks and an 1800-pair 76-type binding post SAI with a 710 capless female connectorized harness.

ED-7C621-30, G4 Order this cabinet to receive an 80D cabinet assembly, wiring, and apparatus needed for mounting two Series 5 DCBs or *SLC* 96 Carrier System channel banks, and a 2400-pair, 76-type binding post FDI with a raw-ended harness.

ED-7C621-30, G5 Order this cabinet to receive an 80D cabinet assembly, wiring, and apparatus needed for mounting two Series 5 DCBs or *SLC* 96 Carrier System channel banks and a 2400-pair, 76-type binding post FDI with a 710 male connectorized harness.

(Continued on next page)

80D Cabinet (ED-7C621-30) Group Descriptions (Continued)

ED-7C621-30, G6 Order this cabinet to receive an 80D cabinet assembly, wiring, and apparatus needed for mounting two Series 5 DCBs or *SLC* 96 Carrier System channel banks and a 2400-pair, 76-type binding post FDI with a 710 capless female connectorized harness.

ED-7C621-30, G7 Order this cabinet to receive an 80D cabinet assembly, wiring, and apparatus needed for mounting two Series 5 DCBs or *SLC* 96 Carrier System channel banks and a 2700-pair, 108-type connector SAI with a raw-ended harness.

ED-7C621-30, G8 Order this cabinet to receive an 80D cabinet assembly, wiring, and apparatus needed for mounting two Series 5 DCBs or *SLC* 96 Carrier System channel banks and a 2700-pair, 108-type connector SAI with a 710 male connectorized harness.

ED-7C621-30, G9 Order this cabinet to receive an 80D cabinet assembly, wiring, and apparatus needed for mounting two Series 5 DCBs or *SLC* 96 Carrier System channel banks and a 2700-pair, 108-type connector SAI with a 710 capless female connectorized harness.

ED-7C621-30, G10 Order this cabinet to receive an 80D cabinet assembly, wiring, and apparatus needed for mounting two Series 5 DCBs or *SLC* 96 Carrier System channel banks and a 3600-pair, 108-type connector FDI with a raw-ended harness.

ED-7C621-30, G11 Order this cabinet to receive an 80D cabinet assembly, wiring, and apparatus needed for mounting two Series 5 DCBs or *SLC* 96 Carrier System channel banks and a 3600-pair, 108-type connector FDI with a 710 male connectorized harness.

ED-7C621-30, G12 Order this cabinet to receive an 80D cabinet assembly, wiring, and apparatus needed for mounting two Series 5 DCBs or *SLC* 96 Carrier System channel banks and a 3600-pair, 108-type connector FDI with a 710 capless female connectorized harness.

(Continued on next page)

80D Cabinet (ED-7C621-30) Group Descriptions (Continued)

ED-7C621-30, G13 Order this cabinet to receive an 80D cabinet assembly, wiring, and apparatus needed for mounting two Series 5 DCBs or *SLC* 96 Carrier System channel banks and space reserved for an FDI.

ED-7C621-30, G14 Order this cabinet to receive an 80D cabinet assembly, wiring, and apparatus needed for mounting four Series 5 DCBs or *SLC* 96 Carrier System channel banks.

ED-7C621-30, G15 Order this cabinet to receive an 80D cabinet assembly, wiring, and apparatus needed for mounting three Series 5 DCBs or *SLC* 96 Carrier System channel banks and a 1000-pair, 76-type binding post FDI with a raw-ended harness.

ED-7C621-30, G16 Order this cabinet to receive an 80D cabinet assembly, wiring, and apparatus needed for mounting three Series 5 DCBs or *SLC* 96 Carrier System channel banks and a 1000-pair, 76-type binding post FDI with a 710 male connectorized harness.

ED-7C621-30, G17 Order this cabinet to receive an 80D cabinet assembly, wiring, and apparatus needed for mounting three Series 5 DCBs or *SLC* 96 Carrier System channel banks and a 1200-pair, 108-type connector FDI with a raw-ended harness.

ED-7C621-30, G18 Order this cabinet to receive an 80D cabinet assembly, wiring, and apparatus needed for mounting three Series 5 DCBs or *SLC* 96 Carrier System channel banks and a 1200-pair, 108-type connector FDI with a 710 male connectorized harness.

ED-7C621-30, G19 Order in addition to a G29 (equipped with G94) or a G47 cabinet assembly to provide a DS1 extension shelf in position 3 of a G29 or position 4 of a G47 cabinet. This group includes (56) 3C3EW protector units.

**ED-7C621-30,
G20^{DA}** This group is rated discontinued availability (DA) and replaced by G25.

(Continued on next page)

80D Cabinet (ED-7C621-30) Group Descriptions (Continued)

ED-7C621-30,
G21^{DA} This group is rated DA and replaced by G26.

ED-7C621-30, G22



NOTE:

This group is used to provide extra battery reserve. Reduce normal cabinet capacity by one Series 5 DCB or one *SLC* 96 Carrier System channel bank.

Order in addition to a G14 cabinet assembly to receive four additional 181A apparatus mountings. This group may be ordered with two G125s and one G126 to allow three Series 5 DCBs to be served by 9 battery strings.

ED-7C621-30, G23



NOTE:

This group is used to provide extra battery reserve. Reduce normal cabinet capacity by one Series 5 DCB or one *SLC* 96 Carrier System channel bank.

Order in addition to a G15-G18 or G29 cabinet assembly to provide three additional 181A apparatus mountings.

ED-7C621-30,
G25^{DA}

This group is rated DA and replaced by G125.

ED-7C621-30,
G26^{DA}

This group is rated DA and replaced by G126.

(Continued on next page)

80D Cabinet (ED-7C621-30) Group Descriptions (Continued)

ED-7C621-30, G29 Order this assembly to receive an 80D cabinet arranged for one Series 5 DCB, one DDM-2000 multiplexer, three DS1 extension shelves, and a 201A-LIU (G195 or G196 as specified). This cabinet does not have a DSX. In addition to G29, you *should* order/specify the following:

- DSX per G54, G55, G57, or G59 (one max.)
- 201A-LIU per G195 or G196 (one max.)
- DS1 extension shelves per G19 (three max.)
- DDM-2000, 2B fan unit, J1C182BA-1, L3 power shelf, and two 181A apparatus mountings per G183 (one max.).



NOTE:

The G29 cabinet assembly requires one G23 to provide extra battery reserve and one G94 to provide the equipment needed to install three DS1 extension shelves (G19s) in side 2.

ED-7C621-30, G30 Order in addition to any main cabinet assembly to replace the standard generator inlet with a Hubbell 430B9W-type inlet.



NOTE:

This group is not compatible with cabinets equipped with G36.

ED-7C621-30, G31

Order in addition to any main cabinet group to provide a housing for a cabinet-mounted power meter.



NOTE:

This group is not compatible with cabinets equipped with G49.

ED-7C621-30, G32

Order with any main cabinet assembly equipped with G31 or G36 to provide a cover to match power meter housing and to balance the cabinet appearance.

(Continued on next page)

80D Cabinet (ED-7C621-30) Group Descriptions (Continued)

ED-7C621-30, G33 Order with any main cabinet assembly equipped with G30 to provide a 25-foot extension cord.

ED-7C621-30, G34 Order with any main cabinet assembly to provide a power panel without an internal transfer switch.

ED-7C621-30, G35  **NOTE:**
Do not order G35 without G34.

Order in addition to any main cabinet assembly to provide an externally mounted power transfer switch.

ED-7C621-30, G36  **NOTE:**
Do not order G36 without G34.

Order in addition to any main cabinet assembly to provide an externally mounted power transfer switch with a power meter housing.

ED-7C621-30, G37 Order in addition to a G1-G13 or a G101-G109 cabinet assembly to substitute a 9-type terminal block instead of the standard 66-type terminal block required for cross-connection of the miscellaneous pairs.

ED-7C621-30, G38 Order in addition to any main cabinet assembly to replace the standard generator inlet with a Hubbell 430B12W watertight inlet.

ED-7C621-30, G39 Order in addition to a G14-G18, G110, G121-G124, or G160 cabinet assembly to substitute a 9-type terminal block for the standard 66-type terminal block required for cross-connection of the miscellaneous pairs.

(Continued on next page)

80D Cabinet (ED-7C621-30) Group Descriptions (Continued)

ED-7C621-30, G47 Order this assembly to receive an 80D cabinet arranged for three Series 5 DCBs, one DDM-2000 multiplexer, one DS1 extension shelf, and a 201A-LIU (G95 or G96, as requested). This cabinet does not have a DSX. In addition to G47, you *should* order/specify the following:

- DSX per G52 or G66 (one max.)
- DS1 extension shelf per G19 (one max.)
- 201A-LIU per G195 or G196 (one max.)
- DDM-2000 per G83 or G183 (one max.)
- Series 5 DCBs per G125 (two max.)
- Series 5 DCB per G126 (one max.).

Order G183 to equip a G47 cabinet with a DDM-2000 multiplexer when G125 is not used in position 3. The G183 provides the power equipment that would otherwise be supplied by G125.

ED-7C621-30, G48 Order this assembly to receive an 80D cabinet arranged for three Series 5 DCBs, one DDM-2000 multiplexer, and a 201A-LIU (G95 or G96 as requested). This cabinet does not have a DSX. In addition to G48, you *should* order/specify the following:

- DSX per G52, G53 or G64, G69 (one max.)
- 201A-LIU per G195 or G196 (one max.)
- DDM-2000 per G83 or G183 (one max.)
- Series 5 DCBs per G125 (two max.)
- Series 5 DCB per G126 (one max.).

Order G183 to equip a G48 cabinet with a DDM-2000 multiplexer when G125 is not used in position 3. G183 provides the power equipment that would otherwise be supplied by G125.

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80D Cabinet (ED-7C621-30) Group Descriptions (Continued)

ED-7C621-30, G49	 NOTE: This group is not compatible for cabinet assemblies equipped with G32. Order in addition to any main cabinet assembly to provide a splicing shroud.
ED-7C621-30, G52	Order in addition to a G47 or G48 cabinet assembly to provide a 307 tie-block DSX (<i>without DSX jumpers</i>).
ED-7C621-30, G53	Order in addition to a G48 cabinet assembly to provide an 800-series DSX (<i>without DSX jumpers</i>).
ED-7C621-30, G54	Order in addition to a G29 cabinet assembly to provide a 307 tie-block DSX (<i>without DSX jumpers</i>).
ED-7C621-30, G55	Order in addition to a G29 cabinet assembly to provide a 900-series DSX (<i>without DSX jumpers</i>).
ED-7C621-30, G57	Order in addition to a G29 cabinet assembly to provide a 307 tie-block DSX. DSX jumpers are provided for cross-connection of 76 T-repeaters and one Series 5 DCB.
ED-7C621-30, G59	Order in addition to a G29 cabinet assembly to provide a 900-series DSX. DSX jumpers are provided for cross-connection of 76 T-repeaters and one Series 5 DCB.
ED-7C621-30, G64	Order in addition to a G48 cabinet assembly to provide a 307 tie-block DSX. DSX jumpers are provided for cross-connection of three Series 5 DCBs.

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80D Cabinet (ED-7C621-30) Group Descriptions (Continued)

ED-7C621-30, G66 Order in addition to a G47 cabinet assembly to provide a 307 tie-block DSX. DSX jumpers are provided for cross-connection of three Series 5 DCBs and 28 T-repeaters.

ED-7C621-30, G69 Order in addition to a G48 cabinet assembly to provide an 800-series DSX. DSX jumpers are provided for cross-connection of three Series 5 DCBs.

ED-7C621-30, G71 Order this assembly to receive an 80D cabinet arranged for three Series 5 DCBs, one DDM-1000 multiplexer, one SXSS repeater shelf, and a 100A-LIU (G95 or G96 as requested). This cabinet is equipped with a DSX tie-block panel (*without DSX jumpers*). In addition to G71, you *should* order/specify the following:

- 100A-LIU per G95 or G96 (one max.)
- DDM-1000 per G81 or G82 (one max.)
- Series 5 DCB per G125 (two max.)
- Series 5 DCB per G126 (one max.).

Order G82 to equip a G71 cabinet with a DDM-1000 multiplexer when G125 is not used in position 3. The G82 provides the power equipment that would otherwise be supplied by G125.

ED-7C621-30, G72 Order this assembly to receive an 80D cabinet arranged for two Series 5 DCBs, four SXSS T-repeater shelves, one DDM-1000 multiplexer, and a 100A-LIU (G95 or G96 as requested). This assembly includes a DSX tie block (*without DSX jumpers*). In addition to G72 you should order/specify the following equipment:

- 100A-LIU per G95 or G96 (one max.)
 - DDM-1000 per G81 or G82 (one max.)
 - SXSS T-repeater shelf per G93 (four max.)
 - Series 5 DCB per G125 (two max.) **or**
SLC 96 channel bank per G143 (two max.)
 - Series 5 DCB per G126 (one max.) **or**
SLC 96 channel bank per G144 (one max.)
-

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80D Cabinet (ED-7C621-30) Group Descriptions (Continued)

- ED-7C621-30, G72 (continued)** Order G82 to equip a G72 cabinet with a DDM-1000 multiplexer when G125 (or G143) is not used in position 3. The G82 provides the power equipment that would otherwise be supplied by G125 (or G143).
-
- ED-7C621-30, G78** Order in addition to a G71, G90, G91, G97, or G98 cabinet assembly for material and wiring to provide initial T1 feeder to the COT and for future field conversion to lightguide feeder cable.
-
- ED-7C621-30, G79** Order in addition to a G72, G92, or G99 cabinet assembly for material and wiring to provide initial T1 feeder to the COT and for future field conversion to lightguide feeder cable.
-
- ED-7C621-30, G81** Order in addition to a G71, G90, G91, G97, or G98 cabinet assembly to provide a DDM-1000, a 2B fan unit, and one 181A apparatus mounting in position 4. The DDM-1000 supplied is the ED-2C841-30, G2 shelf assembly equipped with one each ED-2C833-20, G10, G11, and G13 cable assemblies. This group requires G125 or equivalent in position 3.
-
- ED-7C621-30, G82** Order in addition to a G71, G72, G90-G92, or G97-G99 cabinet assembly to provide a DDM-1000, a 2B fan unit, a J1C182BA-1, L1 power shelf, and two 181A apparatus mountings in position 4. Provide G82 when G125 or equivalent not provided in position 3.
-
- ED-7C621-30, G83** Order in addition to a G47 or G48 cabinet assembly to provide a DDM-2000 OC-3 multiplexer shelf, one 2B fan unit, and one 181A apparatus mounting in position 4. The G83 requires G125 or equivalent in position 3.
-
- ED-7C621-30, G84** Order in addition to any main cabinet assembly (space permitting) to provide one 181A apparatus mounting.
-

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80D Cabinet (ED-7C621-30) Group Descriptions (Continued)

ED-7C621-30, G90 Order this assembly to receive an 80D cabinet arranged for three Series 5 DCBs, one DDM-1000 multiplexer, and a 100A-LIU (G95 or G96 as requested). This assembly includes a DSX tie-block panel. In addition to G90, you should order/specify the following equipment:

- DDM-1000 multiplexer per G81 or G82
- Series 5 DCB per G125 (two max.) **or**
SLC 96 channel bank per G143 (two max.)
- Series 5 DCB per G126 (one max.) **or**
SLC 96 channel bank per G144 (one max.).



NOTE:

In order to fully utilize the capacity of the DDM-1000, a sufficient number of digital cables (terminated at the tie blocks) are included to allow the DDM-1000 to be connected to eight *SLC* Carrier Systems in a collocated cabinet.

ED-7C621-30, G91 Order this assembly to receive an 80D cabinet arranged for three Series 5 DCBs, one SXSS T-repeater shelf, one DDM-1000 multiplexer, and a 100A-LIU (G95 or G96, as requested). This assembly includes a DSX tie block panel. In addition to G91, you should order/specify the following equipment:

- DDM-1000 multiplexer per G81 or G82
- SXSS T-repeater shelf per G93 (one max.)
- Series 5 DCB per G125 (two max.) **or**
SLC 96 channel bank per G143 (two max.)
- Series 5 DCB per G126 (one max.) **or**
SLC 96 channel bank per G144 (one max.).

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80D Cabinet (ED-7C621-30) Group Descriptions (Continued)

ED-7C621-30, G92 Order this assembly to receive an 80D cabinet arranged for two Series 5 DCBs, four SXSS T-repeater shelves, one DDM-1000 multiplexer, and a 100A-LIU (G95 or G96, as requested). This assembly includes a DSX tie-block panel. In addition to G92, you should order/specify the following equipment:

- Wiring for initial T1 feeder per G79
- DDM-1000 multiplexer per G82
- SXSS T-repeater shelf per G93 (four max.)
- Apparatus mounting and 2B fan unit per G94 (*one required*)
- Series 5 DCB per G125 (two max.) **or**
SLC 96 channel bank per G143 (two max.)
- Series 5 DCB per G126 (one max.) **or**
SLC 96 channel bank per G144 (one max.)
- ED-7C621-30, G93.

Order in addition to a G71, G91, or G98 cabinet assembly to provide equipment necessary to install an SXSS T-repeater shelf in position 4; **or** order in addition to a G72, G92, or G99 cabinet assembly to provide equipment necessary to install an SXSS T-repeater shelf in position 3 or 4. This group includes (26) 3C3EW protector units.

ED-7C621-30, G94 Order in addition to a G72, G92, or G99 cabinet assembly equipped with G82 to provide the equipment necessary to equip side 2 for up to four G93 SXSS T-repeater shelves. This group includes one 181A apparatus mounting and a 2B fan unit.

ED-7C621-30, G95  **NOTE:**
This group is used for DDM-1000 applications only.

Order in addition to a G71, G72, G90-G92, or G97-G99 cabinet assembly to provide a 100A-LIU for rotary or fusion fiber splicing in the AC power panel area.

(Continued on next page)

80D Cabinet (ED-7C621-30) Group Descriptions (Continued)

ED-7C621-30, G96  **NOTE:**
This group is used for DDM-1000 applications only.

Order in addition to a G71, G72, G90-G92, or G97-G99 cabinet assembly to provide a 100A-LIU for rotary or fusion fiber splicing in the copper splice area.

ED-7C621-30, G97 Order this assembly to receive an 80D cabinet arranged for three Series 5 DCBs, one DDM-1000 multiplexer shelf, and one 100A-LIU (G95 or G96 as requested). This group includes a DSX tie-block panel wired for low bit rate voice (LBRV). In addition to G97, you should order/specify the following:

- Wiring for initial T1 feeder per G78
 - DDM-1000 multiplexer per G81 or G82
 - Series 5 DCB per G125 (two max.) **or**
SLC 96 channel bank per G143 (one max.)
 - Series 5 DCB per G126 (one max.) **or**
SLC 96 channel bank per G144 (one max.).
-

ED-7C621-30, G98 Order this assembly to receive an 80D cabinet wired for LBRV and arranged for three Series 5 DCBs, one SXSS T-repeater shelf, one DDM-1000 multiplexer, and a 100A-LIU (G95 or G96 as requested). This assembly includes a DSX tie block. In addition to G98, you should order/specify the following equipment:

- Wiring for initial T1 feeder per G78
 - DDM-1000 multiplexer per G81 or G82
 - SXSS T-repeater shelf per G93
 - Series 5 DCB per G125 (two max.) **or**
SLC 96 channel bank per G143 (one max.)
 - Series 5 DCB per G126 (one max.) **or**
SLC 96 per G144 (one max.)
-

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80D Cabinet (ED-7C621-30) Group Descriptions (Continued)

ED-7C621-30, G99 A cabinet wired for LBRV and arranged for two Series 5 DCBs, four SXSS T-repeater shelves, and one DDM-1000 multiplexer shelf. In addition to G99, you should order/specify the following equipment:

- Wiring for initial T1 feeder per G79
 - DDM-1000 multiplexer per G82
 - SXSS T-repeater shelf per G93 (four max.)
 - Apparatus mounting and 2B fan unit per G94 (*one required*)
 - Series 5 DCB per G125 (one max.) **or**
SLC 96 Carrier System channel bank per G143 (one max.)
 - Series 5 DCB per G126 (one max.) **or**
SLC 96 Carrier System channel bank per G144 (one max.).
-

ED-7C621-30, G101 Order this assembly to receive an 80D cabinet arranged for two SLC 96 carrier banks and containing an 1800-pair, 76-type binding post SAI with a raw-ended harness.

ED-7C621-30, G102 Order this assembly to receive an 80D cabinet arranged for two SLC 96 Carrier System banks and containing an 1800-pair, 76-type binding post SAI with a male 710 connectorized harness.

ED-7C621-30, G103 Order this assembly to receive an 80D cabinet arranged for two SLC 96 Carrier System banks and containing a 2400-pair, 76-type binding post FDI with raw-ended harness.

ED-7C621-30, G104 Order this assembly to receive an 80D cabinet arranged for two SLC 96 Carrier System banks and containing a 2400-pair, 76-type binding post FDI with male 710 connectorized harness.

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80D Cabinet (ED-7C621-30) Group Descriptions (Continued)

- ED-7C621-30, G105** Order this assembly to receive an 80D cabinet arranged for two *SLC 96 Carrier* System banks and containing a 2700-pair, 108-type connector SAI with raw-ended harness.
-
- ED-7C621-30, G106** Order this assembly to receive an 80D cabinet arranged for two *SLC 96 Carrier* System banks and containing a 2700-pair, 108-type connector SAI with male 710 connectorized harness.
-
- ED-7C621-30, G107** Order this assembly to receive an 80D cabinet arranged for two *SLC 96 Carrier* System banks and containing a 3600-pair, 108-type connector FDI with a raw-ended harness.
-
- ED-7C621-30, G108** Order this assembly to receive an 80D cabinet arranged for two *SLC 96 Carrier* System banks and containing a 3600-pair, 108-type connector FDI with a male connectorized harness.
-
- ED-7C621-30, G109** Order this assembly to receive an 80D cabinet arranged for two *SLC 96 Carrier* System banks and associated equipment. This assembly does not include an FDI.
-
- ED-7C621-30, G110** Order this assembly to receive an 80D cabinet arranged for four *SLC 96 Carrier* System banks and associated equipment.
-
- ED-7C621-30, G121** Order this assembly to receive an 80D cabinet arranged for three *SLC 96 Carrier* System banks and containing a 1000-pair, 76-type binding post FDI with a raw-ended harness.
-

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80D Cabinet (ED-7C621-30) Group Descriptions (Continued)

ED-7C621-30, G122 Order this assembly to receive an 80D cabinet arranged for three *SLC 96* Carrier System banks and containing a 1000-pair, 76-type binding post FDI with a male 710 connectorized harness.

ED-7C621-30, G123 Order this assembly to receive an 80D cabinet arranged for three *SLC 96* Carrier System banks and containing a 1200-pair, 108-type connector FDI with a raw-ended harness.

ED-7C621-30, G124 Order this assembly to receive an 80D cabinet arranged for three *SLC 96* Carrier System banks and containing a 1200-pair, 108-type connector FDI with 710 male connectorized harness.

ED-7C621-30, G125 Order **(2 Max.)** in addition to any main cabinet group except G101-G110 or G121-G124 to provide a Series 5 DCB (J1C182AE-1, L3), one J1C182BA-1 power shelf, one 2B fan unit, two 181A apparatus mountings, and (192) 3C1EW protector units.

ED-7C621-30, G126 Order **(2 Max.)** in addition to any main cabinet group except G101-G110 or G121-G124 to provide a Series 5 DCB (J1C182AE-1, L3), one 2B fan unit, one 181A apparatus mounting, and (192) 3C1EW protector units.

ED-7C621-30, G137 Order in addition to any cabinet assembly arranged with a Series 5 power shelf to provide an intelligent reserve unit (IRU) to monitor six strings of IR-30 batteries.

ED-7C621-30, G138 Order in addition to any cabinet arranged with *SLC 96* Carrier System power apparatus to provide an IRU to monitor six battery strings.

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80D Cabinet (ED-7C621-30) Group Descriptions (Continued)

ED-7C621-30, G139 Order **(6 Max.)** in addition to G137 or G138 to provide a required battery interface module for one string of 1R-30 batteries.

ED-7C621-30, G143 Order **(2 Max.)** in addition to any main cabinet group except G29, G47, G48, G71, or G72 to provide one *SLC 96 Carrier System J1C141AK1*, L1 RT channel bank (*in position 1 or 3*), one KS-22099, L5 fan, one 1B power and jack panel, one 3B battery charger, one 128A apparatus mounting, and (96) 3C1EW protector units.

ED-7C621-30, G144 Order **(2 Max.)** in addition to any main cabinet group except G29, G47, G48, G71, G72, or G110 to provide one *SLC 96 Carrier System J1C141AK1*, L1 RT channel bank (*in position 2 or 4*), one KS-22099, L5 fan, one 128A apparatus mounting, and (96) 3C1EW protector units.

ED-7C621-30, G160 Order this assembly to receive an 80D cabinet arranged for two *SLC 96* channel banks on (*frame side 1*) and two Series 5 DCBs on (*frame side 2*) and associated equipment.

ED-7C621-30, G179  **NOTE:**
Do not order this group with G184.

Order this item to receive wiring and hardware required for mounting a *4TEL* Computer-Controlled Diagnostic System *RMU* measurement apparatus and one line test fanout (LTF) unit.

ED-7C621-30, G183 Order in addition to a G29, G47, or G48 cabinet assembly to provide a DDM-2000 OC-3 multiplexer shelf, a 2B fan unit one J1C182BA-1, L3 power shelf, and two 181A apparatus mountings in position 4.

(Continued on next page)

80D Cabinet (ED-7C621-30) Group Descriptions (Continued)

ED-7C621-30, G184  **NOTE:**
Do not order this group with G179.

Order in addition to any main cabinet assembly to provide wiring and apparatus required to add one *4TEL* Computer-Controlled Diagnostic System *RMU* measurement apparatus in position 1.

ED-7C621-30, G195  **NOTE:**
If G195 is required, an external transfer switch and emergency power inlet are also required due to the position of the 201A-LIU.

Order in addition to a G29, G47, or G48 cabinet assembly to provide a 201A-LIU for fusion or rotary fiber splicing in the AC power panel area for DDM-2000 applications.

ED-7C621-30, G196  **NOTE:**
Do not order G195 and G196 in the same cabinet.

Order in addition to a G29, G47, or G48 cabinet assembly to provide a 201A-LIU for fusion or rotary fiber splicing in the copper splice area for DDM-2000 applications.

Batteries and Miscellaneous Equipment

Introduction	This section provides information on batteries and miscellaneous equipment needed for cabinet maintenance or installation.
128C	This bracket is used to accurately locate the mounting inserts and cable openings in the concrete pad and becomes a permanent part of the pad. Same as ED-7C621-30, G100. Comcode 104164850
216C	This tool is used to open the cabinet door. Comcode 102450574
IR-30	The IR-30 battery is a 12 V DC, 28 ampere-hour constant current, sealed lead acid unit. Comcode 406382754
IR-30C	The IR-30C battery is a 12 V DC, 28 ampere-hour constant voltage, sealed lead acid unit. Comcode 406456707
IR-40	The IR-40 battery is a 12 V DC, 36 ampere-hour constant current, sealed lead acid unit. Comcode 406382739
IR-40C	The IR-40C battery is a 12 V DC, 36 ampere-hour constant voltage, sealed lead acid unit. Comcode 406456715
Key	Order this item to receive an Allen key-wrench used to unlock/lock the cabinet door. Comcode 840841324

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Batteries and Miscellaneous Equipment (Continued)

KS-21906, L4

Ordering for the KS-21906, L4 12 V DC, 25 ampere-hour (six-pack) batteries should be limited to replacement of defective units in existing cabinets. IR-series and KS-21906, L4 batteries are not compatible on the same 181-type apparatus mounting.

Comcode 402269583

80D Cabinet Related Documentation

List of 80D cabinet related documentation

The following table lists Lucent Technologies documentation where additional information may be found concerning the 80D cabinet and associated equipment. To order one or more of the following documents, refer to the "About This Document" section of this document.

Document	Title
157-010-100	<i>Lineage® 2000 Intelligent Reserve Unit Product Manual and Installation Guide</i>
363-202-000	<i>SLC® 96 Carrier System Ordering Guide</i>
363-205-010	<i>SLC Series 5 Carrier System Applications and Planning Guide</i>
363-206-100	<i>DDM-1000 User/Service Manual</i>
363-206-200	<i>DDM-2000 Multiplexer Application, Planning, and Ordering Guide</i>
363-206-202	<i>DDM-2000 User/Service Manual</i>
365-200-106	<i>Small Cross-Section Office Repeater Shelf Description, Installation, and Maintenance</i>
462-250-110	<i>80 Type Cabinet Wiring</i>
626-500-105	<i>80D Cabinet Coding Scheme, Ordering Information and Lettering Guidelines</i>
631-600-240	<i>80D, E Cabinets Installation</i>
640-250-247	<i>Field Installation of Series 5 RT into 80 Type Cabinets Precabled for SLC Series 5 Carrier Systems</i>
640-250-255	<i>80D Cabinet (Fiber) G90, G91 & G92 Description, Installation and Splicing SLC Series 5 Carrier System and SXSS Repeater Shelves</i>
640-250-264	<i>80D Cabinet Installation and Splicing, Series 5 equipped with DDM-2000, DS1 Extension Shelf. G29, G47, G48</i>

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80D Cabinet Related Documentation (Continued)

List of 80D cabinet
related
documentation
(continued)

Document	Title
640-250-325	<i>80D Cabinet Metallic Description, Installation, and Splicing SLC Series 5 Carrier System</i>
640-252-312	<i>80-Type Cabinets Description, Installation, and Splicing Combined SLC 96 and SLC Series 5 Carrier Systems</i>
631 WIP 008	<i>80-Type Cabinet Installation</i>
633 WIP 009	<i>80-Type Cabinet-Splicing with 710 Connectors</i>
915-710-115	<i>SLC Series 5 Carrier System Application Engineering Practice (Issue 2 or higher)</i>
J1C141AK-1	<i>RT Channel Bank</i>
J1C182AE-1	<i>RT Dual Channel Bank</i>
J1C182BA-1	<i>RT Power Shelf</i>
ED-1T279-01	<i>Concrete Pad for 80D Size Cabinet</i>

80D-BP Cabinet (ED-7C716-30)

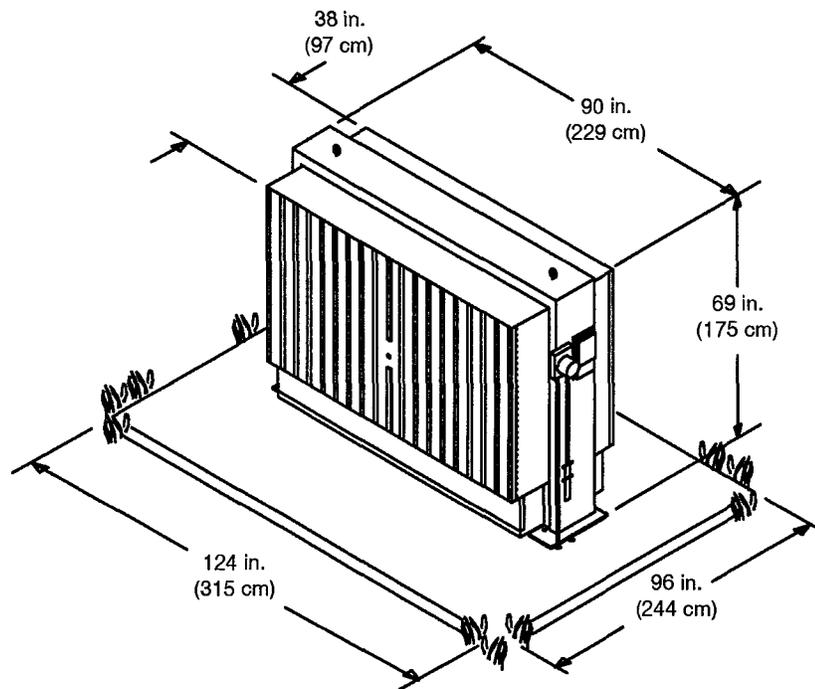
Overview

General

The 80D-BP cabinet is factory assembled and completely prewired. The cabinet can house various combinations of *SLC*[®] Series 5 Carrier System dual channel banks (DCBs), *SLC-2000* Access System equipment, feeder distribution interfaces (FDIs), multiplexers (DDM-1000, DDM-2000 OC-3, DDM-2000 OC-12, or *SLC-2000* Access System ARM shelf), and DS1 extensions (*including the new DDM-Plus extension shelf*).

The 80D-BP cabinet uses a common -48 V DC power plant (with battery reserve) to power all carrier equipment in the cabinet. The battery reserve is housed independent of the carrier equipment. Housing the batteries in the cabinet skirt extends battery life and efficiently utilizes cabinet space.

The following figure provides the cabinet dimensions.



(Continued on next page)

Overview (Continued)

Equipment capacities for 80D-BP cabinet assemblies

The following table provides the equipment capacities for each of the six 80D-BP cabinet assemblies.

80D-BP Cabinet ED-7C716-30	Feeder Type	SLC® Series 5 Dual Channel Banks	SLC-2000 MDS Assembly	VF/ DS0 Lines	FDI Type/No. of Pairs	Extension
Group 13	T1 (metallic)	4	—	768	76I/12400 108I/12700 108I/13600	—
Group 14	T1 (metallic)	6	—	1152	—	—
Group 89	Fiber (DDM-1000 or DDM-2000 OC-3)	3	—	576	76I/11800 76I/12400 108I/12700 108I/13600	28 DS1
Group 90	Fiber (DDM-1000 or DDM-2000 OC-3)	5	—	960	—	28 DS1
Group 190	Fiber (DDM-2000 OC-12)	4	—	768	—	28 DS1 4 OC-3
Group 490	Fiber (SLC-2000 ARM shelf)	3	4	1344	—	28 DS1

Each cabinet is equipped, as required, with an AC power panel, 307-type connector blocks, and DSXs. Various AC power systems and FDI arrangements are available for the cabinet. The cabinet is also available with or without an FDI. Protector units for derived pairs are provided with each Series 5 DCB or SLC-2000 Access System MDS assembly ordered. A ringing plant per J1C182BC-1 is also provided. The DSX is available with or without jumper wires.

The 80D-BP cabinet is not arranged for SLC 96 Carrier Systems on a standard basis at this time.

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Overview (Continued)

Equipment capacities for 80D-BP cabinet assemblies (continued)

Plug-in circuit packs are not provided with the cabinet and must be ordered separately. Order Series 5 Carrier System plug-ins per Chapter 5 of this document.

For immediate assistance regarding questions on 80-type cabinets, call the following toll free number: **1-800-4CABNET** or **1-800-422-2638**. Call this number Monday through Friday, between the hours of 8 a.m. and 4 p.m. Central standard time (CST).

Compatibility of ED-7C621-30 group combinations

Use the following table to check the compatibility of specific ED-7C716-30 group combinations for 80D-BP cabinets. In the table, a box (■) in any row indicates group compatibility with the cabinet assembly in the column but does not indicate that the group is always required

(Continued on next page)

Overview (Continued)

Compatibility of
ED-7C621-30
group
combinations
(continued).

ED-7C716-30 Compatible Subgroups	Main Cabinet Group Numbers					
	Metallic Feeder		Fiber Feeder			
	G13	G14	G89	G90	G190	G490
G1, G2, or G3	-	-	■	-	-	-
G4, G5, or G6	■	-	■	-	-	-
G7, G8, or G9	■	-	■	-	-	-
G10, G11, or G12	■	-	■	-	-	-
G19	-	-	■	■	■	■
G30, G34, G35, G38, or G41-G45	■	■	■	■	■	■
G31	■	■	■	■	■	■
G50	■	■	■	■	■	-
G51	-	-	-	-	-	■
G55 or G59	-	-	-	■	-	-
G60	■	■	■	■	■	■
G61	■	■	■	■	■	■
G62 or G63	■	■	■	■	■	■
G66 or G67	-	-	■	-	-	-
G68 or G69	-	-	-	-	■	-
G81	-	-	■	■	-	-
G83	-	-	■	■	■	-
G95 or G96	-	-	■	■	-	-
G100	■	■	■	■	■	■
G119	-	-	■	■	■	■

(Continued on next page)

Overview (Continued)

Compatibility of
 ED-7C621-30
 group
 combinations
 (continued)

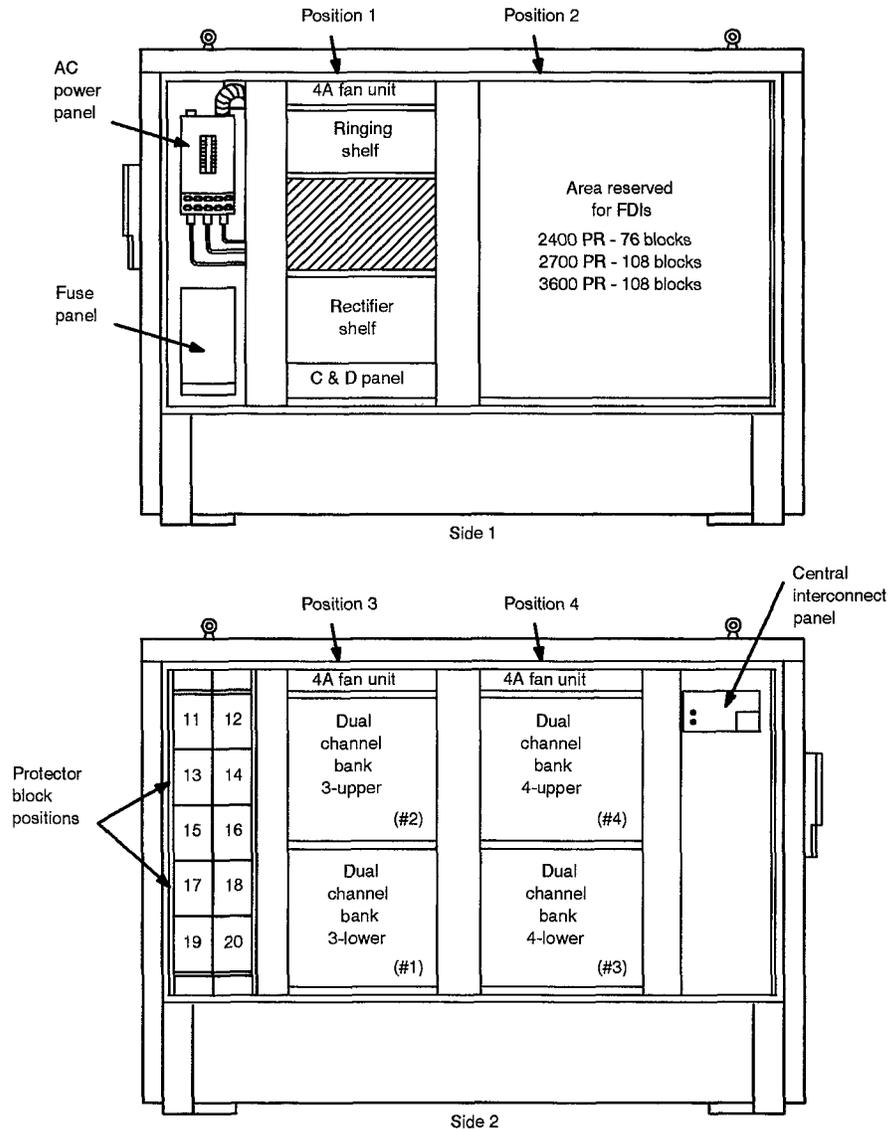
ED-7C716-30 Compatible Subgroups	Main Cabinet Group Numbers					
	Metallic Feeder		Fiber Feeder			
	G13	G14	G89	G90	G190	G490
G128	■	■	■	■	■	■
G163	■	■	■	■	■	■
G181	-	-	-	-	■	-
G187	■	■	■	■	■	■
G194 or G197	-	-	■	■	■	■
G195 or G196	-	-	■	■	■	■
G427	-	-	-	-	-	■
G428	-	-	-	-	-	■
G455 or G456	-	-	-	-	-	■

Typical Equipment Arrangements in Cabinet Assemblies

80D-BP cabinet group 13

The following figure provides a typical equipment arrangement for the 80D-BP cabinet group 13.

See the section entitled "80D-BP Group Descriptions" to obtain the order wording, ordering status, and special considerations (if any).



tpa 798679/01

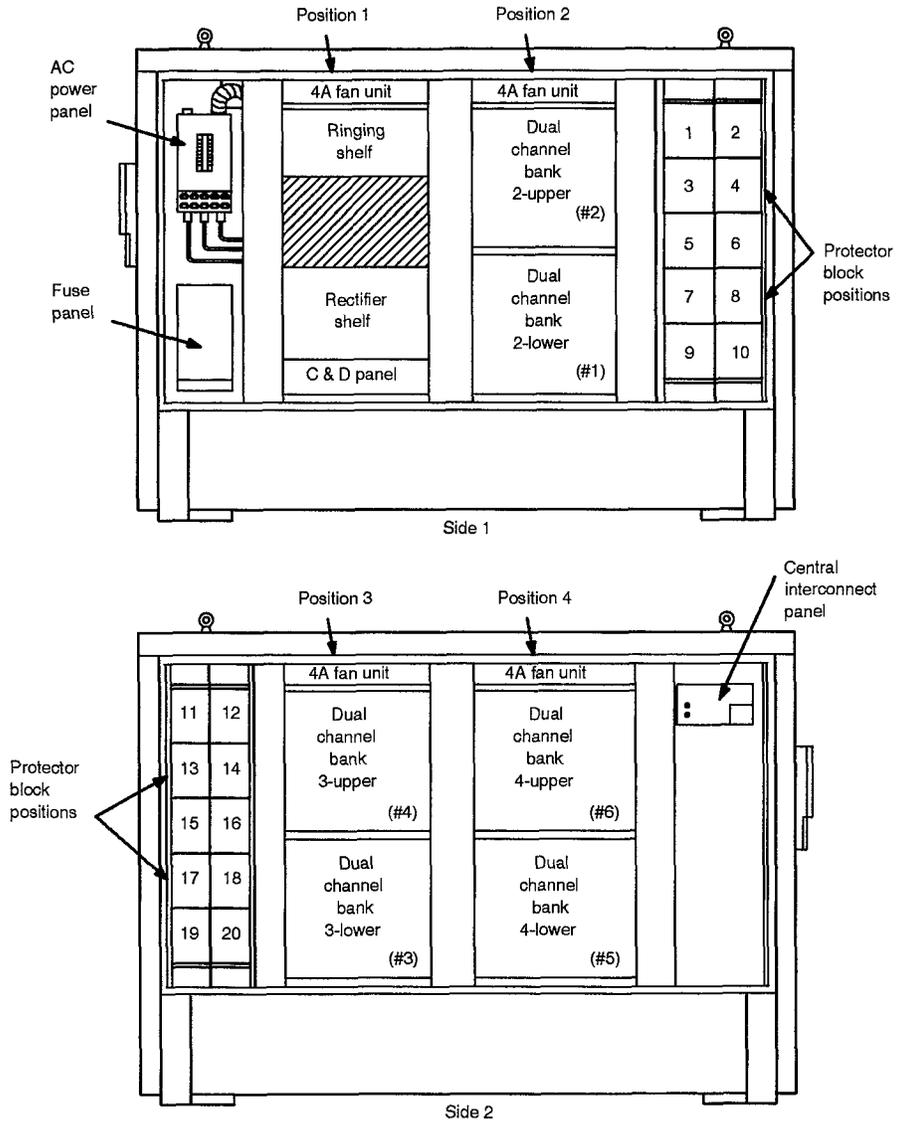
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Typical Equipment Arrangements in Cabinet Assemblies (Continued)

80D-BP cabinet group 14

The following figure provides a typical equipment arrangement for the 80D-BP cabinet group 14.

See the section entitled "80D-BP Group Descriptions" to obtain the order wording, ordering status, and special considerations (if any).



tpa 798567/01

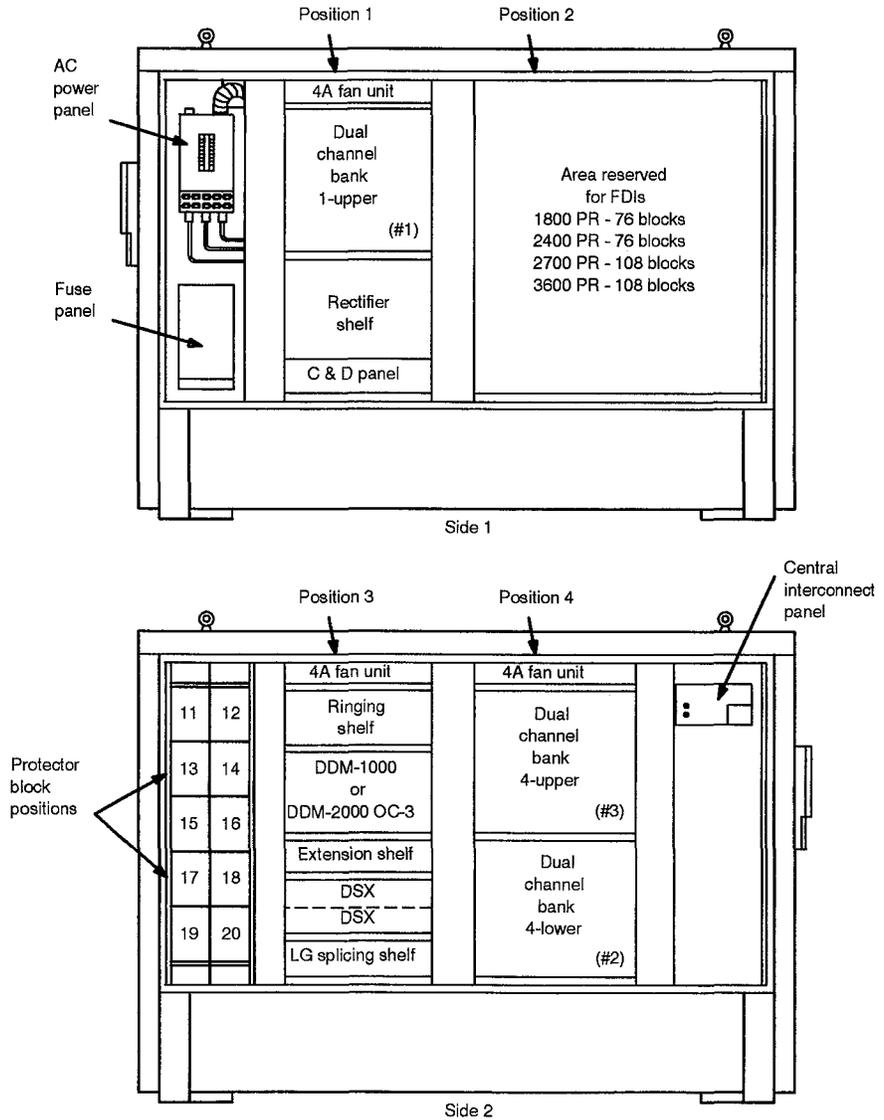
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Typical Equipment Arrangements in Cabinet Assemblies (Continued)

80D-BP cabinet group 89

The following figure provides a typical equipment arrangement for the 80D-BP cabinet group 89.

See the section entitled "80D-BP Group Descriptions" to obtain the order wording, ordering status, and special considerations (if any).



tpa 788877/01

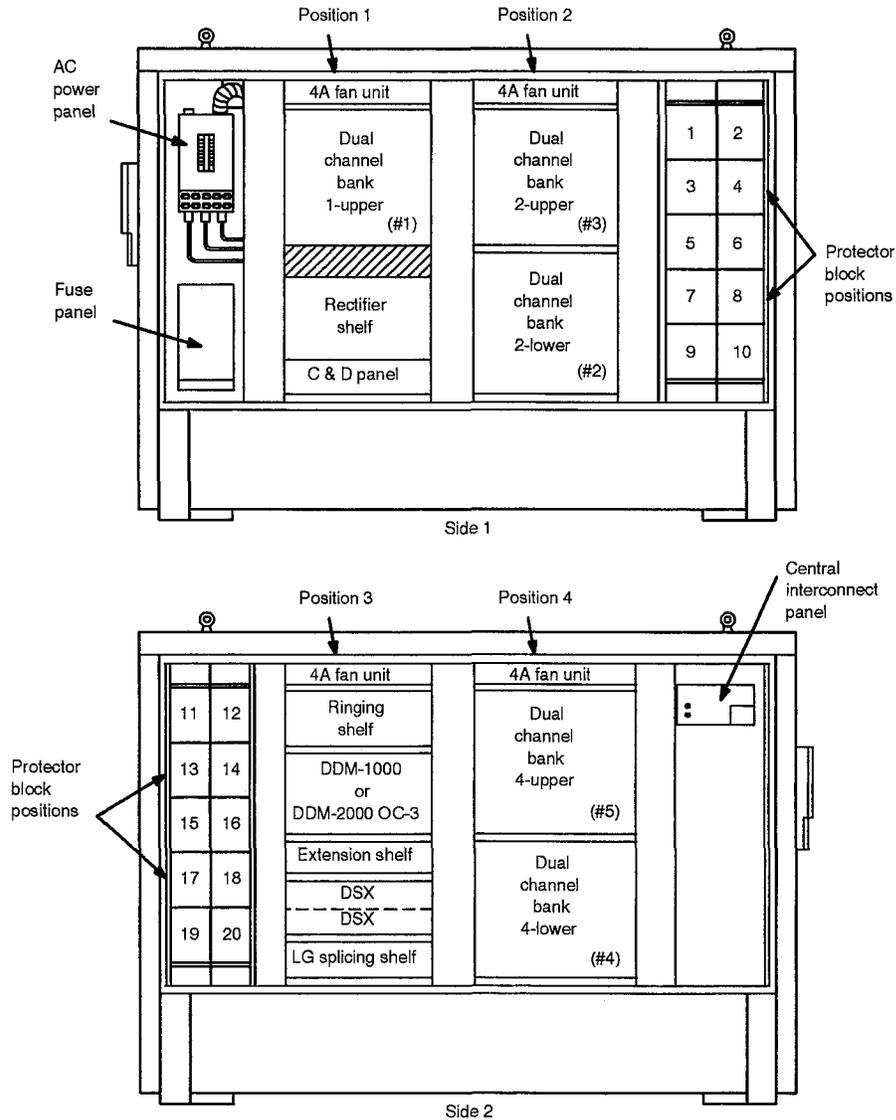
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Typical Equipment Arrangements in Cabinet Assemblies (Continued)

80D-BP cabinet group 90

The following figure provides a typical equipment arrangement for the 80D-BP cabinet group 90.

See the section entitled "80D-BP Group Descriptions" to obtain the order wording, ordering status, and special considerations (if any).



tpa 798878/01

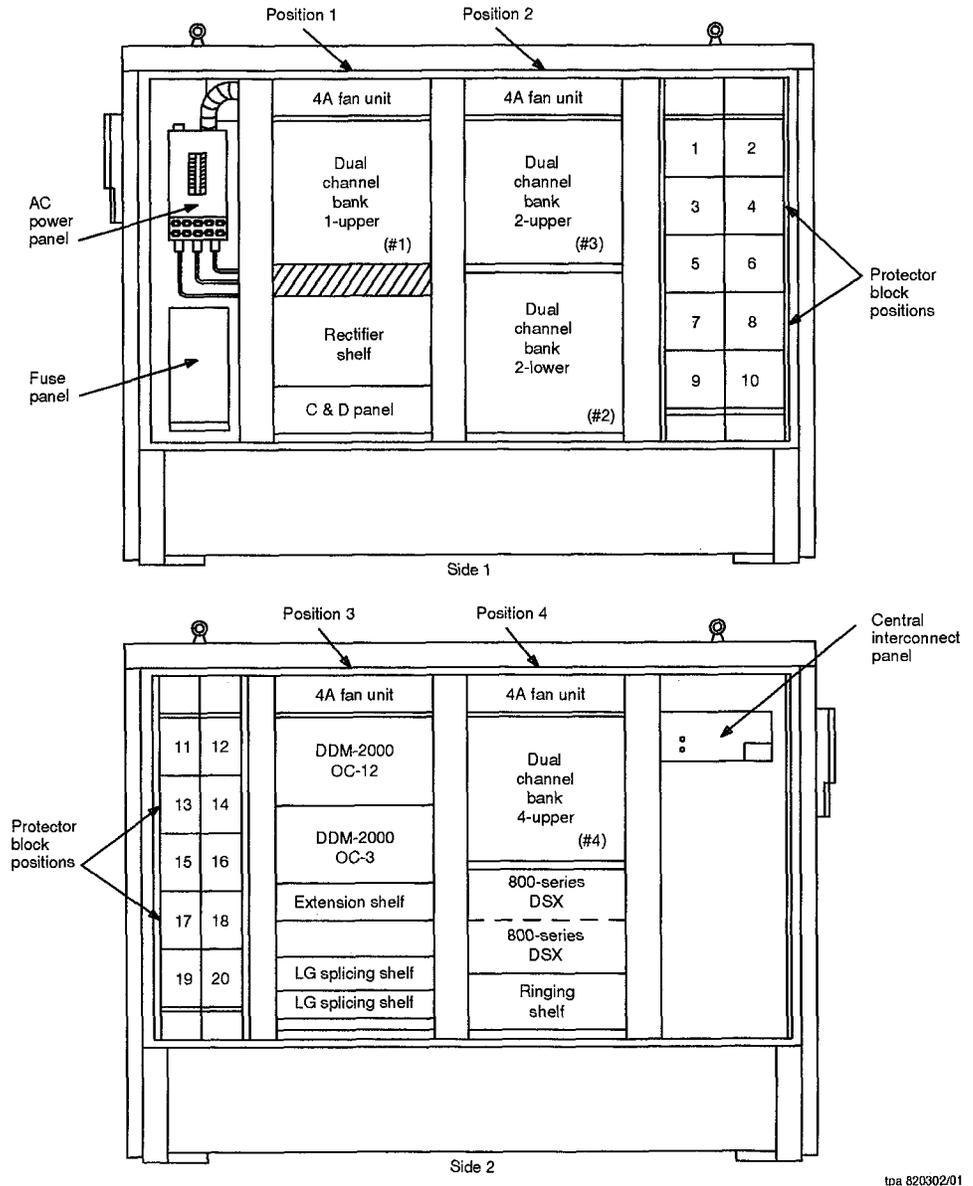
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Typical Equipment Arrangements in Cabinet Assemblies (Continued)

80D-BP cabinet group 190

The following figure provides a typical equipment arrangement for the 80D-BP cabinet group 190.

See the section entitled "80D-BP Group Descriptions" to obtain the order wording, ordering status, and special considerations (if any).



tpa 820302/01

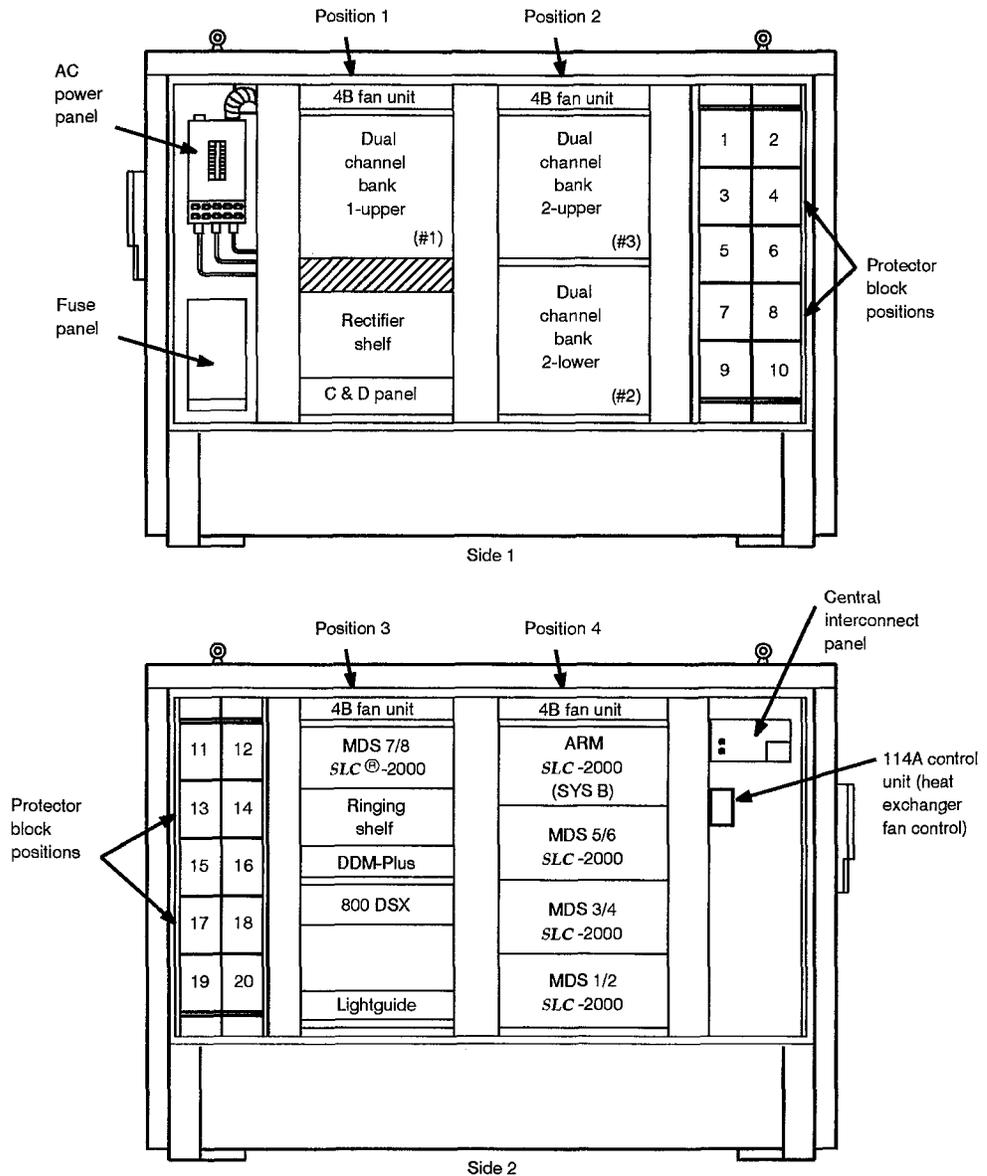
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Typical Equipment Arrangements in Cabinet Assemblies (Continued)

80D-BP cabinet group 490

The following figure provides a typical equipment arrangement for the 80D-BP cabinet group 490.

See the section entitled "80D-BP Group Descriptions" to obtain the order wording, ordering status, and special considerations (if any).



80D-BP Cabinet Group Descriptions

Introduction Order wording and group descriptions for the 80D-BP cabinet are shown in ascending order. Group numbers not shown are *unassigned* at the time this document was released. Unless otherwise stated, the maximum per cabinet order for each group number is one. Unless otherwise specified, each group listed has a rating of general availability.

ED-7C716-30, G1 Order in addition to a G89 cabinet assembly to provide an 1800-pair, 76-type binding post FDI with raw-ended harness.

ED-7C716-30, G2 Order in addition to a G89 cabinet assembly to provide an 1800-pair, 76-type binding post FDI with a 710 male connectorized harness.

ED-7C716-30, G3 Order in addition to a G89 cabinet assembly to provide an 1800-pair, 76-type binding post FDI with a 710 capless female connectorized harness.

ED-7C716-30, G4 Order in addition to a G13 or G89 cabinet assembly to provide a 2400-pair, 76-type binding post FDI with raw-ended harness.

ED-7C716-30, G5 Order in addition to a G13 or G89 cabinet assembly to provide a 2400-pair, 76-type binding post FDI with a male 710 connectorized harness.

ED-7C716-30, G6 Order in addition to a G13 or G89 cabinet assembly to provide a 2400-pair, 76-type binding post FDI with a 710 capless female connectorized harness.

ED-7C716-30, G7 Order in addition to a G13 or G89 cabinet assembly to provide a 2700-pair, 108-type quick-connect FDI with raw-ended harness.

(Continued on next page)

80D-BP Cabinet Group Descriptions (Continued)

ED-7C716-30, G8 Order in addition to a G13 or G89 cabinet assembly to provide a 2700-pair, 108-type quick-connect FDI with a 710 male connectorized harness.

ED-7C716-30, G9 Order in addition to a G13 or G89 cabinet assembly to provide a 2700-pair, 108-type quick-connect FDI with a 710 capless female connectorized harness.

ED-7C716-30, G10 Order in addition to a G13 or G89 cabinet assembly to provide a 3600-pair, 108-type quick-connect FDI with raw-ended harness.

ED-7C716-30, G11 Order in addition to a G13 or G89 cabinet assembly to provide a 3600-pair, 108-type quick-connect FDI with a 710 male connectorized harness.

ED-7C716-30, G12 Order in addition to a G13 or G89 cabinet assembly to provide a 3600-pair, 108-type quick-connect FDI with a 710 capless female connectorized harness.

ED-7C716-30, G13  **NOTE:** When equipping this cabinet assembly with Series 5 DCBs (G128s), additional fan units (G50s) are required. Order a second G50 fan unit when equipping this cabinet with the first Series 5 DCB. Order a third G50 fan unit when equipping the cabinet with the third Series 5 DCB.

Order this cabinet assembly to receive an 80D-BP cabinet with cabling arranged for four Series 5 DCBs (G128s) using metallic line facilities and space for an FDI. The assembly includes a central interface panel (CIP), battery heaters, (9) 307-type protector blocks, one ED-7C629-30, G1 miscellaneous pair panel (MPP), (80) 3B3EW protector units, (20) 3B1EW protector units, and one 6W3D test cord. In addition to the G13 cabinet assembly, you *must* order/specify one each of the following:

- FDI per G4 — G12
 - Power system per G30, G34, G35, G38, or G41 — G45
 - Fan units per G50
 - DC power system per G60
 - Ringing shelf per G61.
-

(Continued on next page)

80D-BP Cabinet Group Descriptions (Continued)

ED-7C716-30, G14  **NOTE:**
When equipping this cabinet assembly with Series 5 DCBs (G128s), additional fan units (G50s) are required. Order a second G50 fan unit when equipping this cabinet with the first Series 5 DCB. Order a third G50 fan unit when equipping the cabinet with the third Series 5 DCB. Order a fourth G50 when equipping the cabinet with the fifth Series 5 DCB.

Order this cabinet assembly to receive an 80D-BP cabinet with cabling arranged for six Series 5 DCBs (G128s) using metallic line facilities. The assembly includes a central interface panel (CIP), battery heaters, (14) 307-type protector blocks, one ED-7C629-30, G1 miscellaneous pair panel (MPP), (120) 3B3EW protector units, (20) 3B1EW protector units, and two 6W3D test cords. In addition to the G14 cabinet assembly, you *must* order/specify one each of the following:

- Power system per G30, G34, G35, G38, or G41 — G45
- Fan units per G50
- DC power system per G60
- Ringing shelf per G61.

ED-7C716-30, G19 Order in addition to a G89, G90, G190, or G490 cabinet assembly to provide a DS1 extension shelf.

ED-7C716-30, G30 Order in addition to a G13, G14, G89, G90, G190, or G490 cabinet assembly to provide an AC power system which includes an AC panel power with interlock, a generator inlet enclosure equipped with a 30A pin and sleeve 240 V AC, 3-phase standard receptacle (Hubbell 430B9W), conduit, and wiring.

ED-7C716-30, G31 Order in addition to a main cabinet assembly to provide a power meter mounting bracket to the 800-BP cabinet leg.

ED-7C716-30, G34 Order in addition to a G13, G14, G89, G90, G190, or G490 cabinet assembly to provide an AC power system which includes an AC power panel, conduit, and wiring.

(Continued on next page)

80D-BP Cabinet Group Descriptions (Continued)

- ED-7C716-30, G35** Order in addition to a G13, G14, G89, G90, G190, or G490 cabinet assembly to provide an AC power system which includes an AC power panel, a leg-mounted transfer switch equipped with a 30A *TWIST-LOCK* electric flush receptacle (Hubbell 2715), conduit, and wiring.
-
- ED-7C716-30, G38** Order in addition to a G13, G14, G89, G90, G190, or G490 cabinet assembly to provide an AC power system which includes an AC power panel with interlock, a generator inlet enclosure equipped with a 30A pin and sleeve 120/240 V AC standard receptacle (Hubbell 430B12W), conduit, and wiring.
-
- ED-7C716-30, G41** Order in addition to a G13, G14, G89, G90, G190, or G490 cabinet assembly to provide an AC power system which includes an AC panel with interlock, a generator inlet enclosure equipped with a 30A *TWIST-LOCK* electric flush receptacle (Hubbell 2715), conduit, and wiring.
-
- ED-7C716-30 G42** Order in addition to a G13, G14, G89, G90, G190, or G490 cabinet assembly to provide an AC power system which includes an AC power panel, a leg-mounted transfer switch equipped with a 30A pin and sleeve 240 V AC, 3-phase standard receptacle (Hubbell 430B9W), conduit, and wiring.
-
- ED-7C716-30, G43** Order in addition to a G13, G14, G89, G90, G190, or G490 cabinet assembly to provide an AC power system which includes an AC power panel, a leg-mounted transfer switch equipped with a 30A pin and sleeve 120/240 V AC standard receptacle (Hubbell 430B12W), conduit, and wiring.
-
- ED-7C716-30, G44** Order in addition to a G13, G14, G89, G90, G190, or G490 cabinet assembly to provide an AC power system which includes an AC power panel, leg-mounted transfer switch equipped with a 100A pin and sleeve 240 V AC, 3-phase standard receptacle (Hubbell 4100B9W), conduit, and wiring.
-

(Continued on next page)

80D-BP Cabinet Group Descriptions (Continued)

ED-7C716-30, G45 Order in addition to a G13, G14, G89, G90, G190, or G490 cabinet assembly to provide an AC power system which includes an AC power panel, a leg-mounted transfer switch equipped with a 100A pin and sleeve 120/240 V AC standard receptacle (Hubbell 4100B12W), conduit, and wiring.

ED-7C716-30, G50 **Always required** for G13, G14, G89, G90, G190; order **(3 Max.)** for G13 and G89; order **(4 Max.)** for G14, G90, and G190 in addition to a G13, G14, G89, G90, G190, or G490 cabinet assembly to provide a 4A fan unit.

ED-7C716-30, G51 **Always required for G490;** order **(4 Max.)** in addition to a G490 cabinet assembly to provide a 4B fan unit.

ED-7C716-30 G55 Order in addition to a G90 cabinet assembly to provide an 800-series DSX (*without DSX jumpers*) for cabinets equipped with a DDM-1000 or DDM-2000 OC-3 multiplexer shelf.

ED-7C716-30, G59 Order in addition to a G90 cabinet assembly to provide an 800-series DSX with DSX jumpers arranged for five Series 5 DCBs and 28 DS1 extensions or 28 DDM-Plus repeaters.

ED-7C716-30, G60 **Always required;** order in addition to a G13, G14, G89, G90, G190, or G490 cabinet assembly to provide a 60-amp, -48 V bulk power system.

ED-7C716-30, G61 **Always required;** order in addition to a G13, G14, G89, G90, G190, or G490 cabinet assembly to provide bulk ringing capability.

(Continued on next page)

80D-BP Cabinet Group Descriptions (Continued)

ED-7C716-30 G62  **NOTE:**
Batteries are not included with this group.

Order **(3 Max.)** in addition to a G13, G14, G89, G90, G190, or G490 cabinet assembly to provide cabling and associated material for one 100 ampere-hour string of *CHLORIDE* 3VB11 batteries.

ED-7C716-30, G63  **NOTE:**
Batteries are not included with this group.

Order **(2 Max.)** in addition to a G13, G14, G89, G90, G190, or G490 cabinet assembly to provide cabling and associated material for one 118 ampere-hour string of Lucent Technologies *Lineage* VR-Series batteries.

ED-7C716-30, G66 Order in addition to a G89 cabinet assembly to provide an 800-series DSX (*without DSX jumpers*) when cabinet is equipped with a DDM-1000 or DDM-2000 OC-3 multiplexer shelf.

ED-7C716-30, G67 Order in addition to a G89 cabinet assembly when the cabinet is equipped with a DDM-1000 or DDM-2000 OC-3 multiplexer shelf to provide an 800-series DSX with jumpers configured for three Series 5 DCBs and 28 DS1 extensions or 28 DDM-Plus repeaters.

ED-7C716-30, G68 Order in addition to a G190 cabinet assembly when the cabinet is equipped with a DDM-2000 OC-3 or OC-12 multiplexer shelf to provide an 800-series DSX (*without DSX jumpers*).

ED-7C716-30, G69 Order in addition to a G190 cabinet assembly when the cabinet is equipped with a DDM-2000 OC-3 or OC-12 multiplexer shelf to provide an 800-series DSX with jumpers configured for four Series 5 DCBs and 28 DS1 or DDM-Plus extensions.

(Continued on next page)

80D-BP Cabinet Group Descriptions (Continued)

ED-7C716-30, G81 Order in addition to a G89 or G90 cabinet assembly to provide a DDM-1000 multiplexer and associated wiring.

ED-7C716-30, G83 Order in addition to a G89, G90, or G190 cabinet assembly to provide a DDM-2000 OC-3 lightwave multiplexer and associated wiring.

ED-7C716-30, G89



NOTE:

When equipping this cabinet assembly with Series 5 DCBs (G128s), additional fan units (G50s) are required. Order a third fan unit per G50 when equipping the cabinet with the second Series 5 DCBs.

Order this assembly to receive an 80D-BP cabinet, wiring, and apparatus arranged for an FDI, a DDM-1000 or DDM-2000 OC-3 Multiplexer shelf, up to three Series 5 DCBs (G128s), and one DS1 extension shelf or one DDM-Plus shelf using lightguide facilities. The assembly includes battery heaters, a CIP, seven 307-type protector blocks, (20) 3B1EW protector units, and one 6W3D test cord. In addition to the G89 cabinet assembly, you *must* order/specify the following:

- One FDI per G1 — G12
 - Up to one extension shelf per G19 (DS1) or G119 (DDM-Plus)
 - One AC power system per G30, G34, G35, G38, or G41-G45
 - Fan units per G50 (maximum of three)
 - One DC power system per G60
 - One ringing shelf per G61
 - Battery string cables per G62 or G63/G163
 - One 800-series DSX per G66 (w/o jumpers) or G67 (w/jumpers)
 - One multiplexer per G81 (DDM-1000) or G83 (DDM-2000 OC-3)
 - One LSC2U-024/5 lightguide splicing shelf with one 12A1 cable clamp (G95 or G195) or up to two LST1LP-048/2.5 lightguide termination shelves with one 12A1 cable clamp (G96 or G196).
-

(Continued on next page)

80D-BP Cabinet Group Descriptions (Continued)

ED-7C716-30, G90



NOTE:

When equipping this cabinet assembly with Series 5 DCBs (G128s), additional fan units (G50s) are required. Order a third fan unit per G50 when equipping the cabinet with the second Series 5 DCBs. Order a fourth fan unit per G50 with the fourth Series 5 DCB.

Order this assembly to receive an 80D-BP cabinet, wiring, and apparatus arranged for a DDM-1000 or DDM-2000 OC-3 multiplexer shelf, up to five Series 5 DCBs (G128s), and one DS1 extension shelf or one DDM-Plus shelf using lightguide facilities. The assembly includes battery heaters, a CIP, (11) 307-type protector blocks, (20) 3B1EW protector units, and two 6W3D test cords. In addition to the G90 cabinet assembly, you *must* order/specify the following:

- Up to one extension shelf per G19 (DS1) or G119 (DDM-Plus)
- One AC power system per G30, G34, G35, G38, or G41-G45
- Fan units per G50 (4 max.)
- One DC power system per G60
- One ringing shelf per G61
- Battery string cables per G62 or G63/G163
- One 800-series DSX per G55 (w/o jumpers) or G59 (w/jumpers)
- One multiplexer per G81 (DDM-1000) or G83 (DDM-2000 OC-3)
- One LSC2U-024/5 lightguide splicing shelf with one 12A1 cable clamp (G95 or G195) or up to two LST1LP-048/2.5 lightguide termination shelves with one 12A1 cable clamp (G96 or G196).

ED-7C716-30, G95

Order in addition to a G89, G90, or G190 (equipped with G81) cabinet assembly to provide an LSC2U-024/5 lightguide splice shelf and apparatus.

ED-7C716-30, G96

Order (2 Max.) in addition to a G89, G90, or G190 (equipped with G81) cabinet assembly to provide an LST1LP-48ST/2.5 lightguide splice shelf and apparatus.

(Continued on next page)

80D-BP Cabinet Group Descriptions (Continued)

ED-7C716-30, G100 The 128G bracket assembly used for concrete pad construction.

ED-7C716-30, G119 Order in addition to a G89, G90, G190, or G490 cabinet assembly to provide a DDM-Plus extension shelf. This group also includes the following cables:

- ED-8C732-20, G1 power cable
 - ED-8C732-20, G5 line cable
 - ED-8C732-20, G6 DSX/equipment cable
 - ED-8C732-20, G7 miscellaneous discretes cable
-

ED-7C716-30, G128 Order in addition to a G13, G14, G89, G90, G190, or G490 cabinet assembly to provide one Series 5 DCB (J1C182AE-1, L3). (See the table in the "Equipment capacities for 80D-BP cabinet assemblies" section.)

ED-7C716-30, G163 Order in addition to a G13, G14, G89, G90, G190, or G490 cabinet assembly to provide cabling and associated material for the third 118 ampere-hour string of Lucent Technologies *Lineage* VR-Series batteries.

ED-7C716-30, G181 Order in addition to a G190 cabinet assembly to provide a DDM-2000 OC-12 multiplexer shelf assembly per ED-8C727-30, G1 and power cord per comcode 846872976. Four *ST* lightguide connector to *ST* lightguide connector jumpers are provided to connect to DDM-2000 OC-3 Multiplexer (G83).

ED-7C716-30, G187 Order in addition to a G13, G14, G89, G90, G190, or G490 cabinet assembly to provide a binder of Lucent Technologies Practices on the 80D-BP cabinet.

(Continued on next page)

80D-BP Cabinet Group Descriptions (Continued)

ED-7C716-30, G190 Order this assembly to receive an 80D-BP cabinet arranged for four Series 5 DCBs, a DDM-2000 OC-3 multiplexer shelf, a DDM-2000 OC-12 multiplexer shelf, and one DS1 or DDM-Plus extension shelf using lightguide facilities. The assembly includes battery heaters, a CIP, nine 307-type protector blocks, (20) 3B1EW protector units, and two 6W3F test cords. In addition to G190, you *must* order/specify the following:

- Up to one extension shelf per G19 (DS1) or G119 (DDM-Plus)
- One AC power system per G30, G34, G35, G38, or G41-G45
- Fan units per G50 (4 max.)
- One DC power system per G60
- One ringing shelf per G61
- Battery string cables per G62 or G63/G163
- One 800-series DSX per G68 (w/o jumpers) or G69 (w/jumpers)
- One multiplexer per G83 (DDM-2000 OC-3)
- Up to one multiplexer per G181 (DDM-2000 OC-12)
- One lightguide splicing shelf per G195 (LSC2U-024/5) **or** up to two lightguide splicing shelves per G196 (LST1P-48ST/2.5).

ED-7C716-30, G194 Order **(5 Max.)** in addition to a G89, G90, G190, or G490 cabinet assembly (equipped with G96 or G196) to provide four *ST* lightguide connector to *ST* lightguide connector jumpers for DDM-Plus lightguide extensions.

ED-7C716-30, G195 Order in addition to a G89, G90, or G190 cabinet assembly (equipped with G83) or G490 cabinet assembly to provide an LSC2U-024/5 lightguide splice shelf and associated apparatus.

ED-7C716-30, G196 Order **(2 Max.)** in addition to a G89, G90, or G190 cabinet assembly (equipped with G83) or G490 cabinet assembly to provide an LST1P-48ST/2.5 lightguide splice shelf and associated apparatus.

(Continued on next page)

80D-BP Cabinet Group Descriptions (Continued)

ED-7C716-30, G197 Order (**3 Max.**) in addition to a G89, G90, G190, or G490 cabinet assembly to provide four *ST* lightguide connector to biconic lightguide connector jumpers for DDM-Plus or DDM-2000 OC-3 lightguide extensions and the LSC2U-024/5 splice shelf.

ED-7C716-30, G427 Order in addition to a G490 cabinet assembly to add a *SLC-2000* Access System access resource manager (ARM) shelf and associated wiring.

ED-7C716-30, G428 Order in addition to a G490 cabinet assembly to add a *SLC-2000* Access System metallic distribution shelf (MDS) assembly.

ED-7C716-30, G455 Order in addition to a G490 cabinet assembly (equipped with a *SLC-2000* Access System ARM shelf) to add an 800-series DSX. The DSX is assembled for three dual channel banks and 20 DS1 extensions. The DSX is not equipped with jumpers.

ED-7C716-30, G456 Order in addition to a G490 cabinet assembly (equipped with a *SLC-2000* Access System ARM shelf) to add an 800-series DSX. The DSX is equipped with jumpers configured for three dual channel banks and four DS1 extensions.

ED-7C716-30, G490 Order this assembly to receive a cabinet assembly, wiring, and apparatus required for one 80D-BP cabinet configured to accommodate three *SLC* Series 5 Carrier System dual channel banks on side 1 and a *SLC-2000* Access System (one ARM shelf and four MDS assemblies) and a DDM-PLUS extension shelf on side 2.

Batteries and Miscellaneous Equipment

Introduction This section provides information on batteries and miscellaneous equipment needed for cabinet maintenance or installation.

Key Order this item to receive an Allen key-wrench used to unlock/lock the cabinet door.

Comcode 840841324

KS-23619, L3 The Lucent Technologies *Lineage* 2000 VR-Series battery may be ordered in quantities of 12 (string) or individually.

To order a string of 12 KS-23619, L3 batteries, specify the equipment code (ED-number) instead of using the individual comcode number or KS-number.

12 Battery string:
ED-83242-31, G3

Individual battery:
Comcode 406020354

Lucent Technologies battery string cable for strings 1 and 2 (included with G63)
Comcode 846278224

Lucent Technologies battery string cables for string 3 (included with G163)
Comcode 846754513 and 846754521

3VB11 This battery is manufactured by Chloride Group Plc. and can be ordered in quantities of eight (string) or individually.

Eight battery string:
Comcode 405890336

Individual battery:
Comcode 405259623

(Continued on next page)

Batteries and Miscellaneous Equipment (Continued)

3VB11 (continued) Battery cables may be ordered by kit or by individual cable. Select the appropriate comcode number and description.

CHLORIDE battery string cable kit (included with G62)
Comcode 846278760

The cable kit includes the cables listed below:

CHLORIDE battery string cable
Comcode 846279115

CHLORIDE battery extension cable
Comcode 846279107

CHLORIDE battery cable (barrier) assemblies (quantity of eight)
Comcode 846279149

**L-connector
presser tool**

This item is used when joining 710-type connectors to assure good connections.
Comcode 402490064

W4DE

The W4DE "access" test cord is 5 feet long and used when fault-locating T1 extensions from 80-type cabinets. Connection is made between the signal generator jack of the fault locate test set and the 4C12C protector position. One test cord is shipped with each 80-type cabinet. Order only if multiple cords or replacement cords are needed.

Comcode 105329395

W4DF

The W4DF "looping" test cord is 3 feet long and is used to loop the digital line. This cord replaces the 4C12C transmit and receive protector units. [A 262C terminating plug must be inserted in appropriate FL jack on the load distribution unit (LDU).] The W4DF is not included in any cabinet group and must be ordered separately.

Comcode 105414973

(Continued on next page)

Batteries and Miscellaneous Equipment (Continued)

12A1 The 12A1 is used to secure outside plant (OSP) lightguide cables.

Comcode 104384490

216C This tool is used to open the cabinet door.

Comcode 102450574

80D-BP Cabinet Related Documentation

List of 80D (BP) cabinet related documentation

The following table lists Lucent Technologies documentation where additional information may be found concerning the 80D-BP cabinet and associated equipment. To order one or more of the following documents, refer to the "About This Document" section of this document.

Document	Title
157-622-010	<i>Lineage®2000 VR Series Battery Product Manual</i>
363-005-224	<i>AYK1 Circuit Pack Data Sheet—SLC®Series 5 Carrier System</i>
363-005-225	<i>AYK2 Circuit Pack Data Sheet—SLC Series 5 Carrier System</i>
363-005-227	<i>CS787B540 Power Unit (Rectifier) Circuit Pack Data Sheet—SLC Series 5 Carrier System</i>
363-205-010	<i>SLC Series 5 Carrier System Applications and Planning Guide</i>
363-205-401	<i>SLC Series 5 Carrier System—RT Acceptance and Turn-Up TOP</i>
363-206-100	<i>DDM-1000 User/Service Manual</i>
363-206-150	<i>DDM-2000 Plus User/Service Manual</i>
363-206-156	<i>DDM-2000 Plus Equipment Engineering and Ordering Guide</i>
363-206-202	<i>DDM-2000 User/Service Manual</i>
365-200-107	<i>DS1 Extension Shelf Description, Installation, and Maintenance</i>
365-301-102	<i>800-Series DSX, General Description</i>
626-500-105	<i>80 Type Cabinets—Coding Scheme, Ordering Information, and Lettering Guidelines</i>

(Continued on next page)

80D-BP Cabinet Related Documentation (Continued)

List of 80D (BP)
cabinet related
documentation
(continued)

Document	Title
631-600-239	<i>80D-BP Cabinet—Installation</i>
631-600-249	<i>80D-BP (Bulk Power) Cabinet General Description and Ordering Information</i>
632-205-200	<i>Wire Joining—710 Connector System</i>
640-250-265	<i>80D-(BP) Cabinet (Fiber: Group 190) Splicing and Equipment Installation</i>
640-250-279	<i>80D-(BP) Cabinet (Fiber: Group 90) Splicing and Equipment Installation</i>
640-250-286	<i>80D-(BP) Cabinet (Metallic: Group 14) Splicing and Equipment Installation</i>
640-250-287	<i>80D-(BP) Cabinet (Metallic: Group 13) Splicing and Equipment Installation</i>
640-250-290	<i>80D-(BP) Cabinet (Fiber: Group 490) Splicing and Equipment Installation</i>
640-250-295	<i>80D-(BP) Cabinet (Fiber: Group 89) Splicing and Equipment Installation</i>
640 WIP 024V	<i>80-Type Cabinets—Foundation Pad Construction</i>
915-710-115	<i>SLC Series 5 Carrier System Application Engineering Practice (Issue 2 or higher)</i>
J1C182AE-1	<i>RT Dual Channel Bank</i>
ED-1T286-01	<i>Concrete Pad for 80D Size Cabinet</i>

80E Distributed Power Cabinet (ED-7C695-30)

Overview

General

The 80E cabinet with distributed power is factory assembled and completely prewired and provides a 50 percent larger system capacity than the 80D series cabinet. The cabinet is equipped with an AC power panel, 307-type connector blocks, and plug-in protector units required for metallic feeder line and subscriber line protection. When arranged for lightguide operation, the cabinet is equipped with DSX tie-block panels and may be ordered *with or without* DSX jumper cables. The cabinet may be equipped with up to two DDM-1000 multiplexers and/or up to eight SXSS (small cross-section office repeater shelves).

The ED-7C695-30 cabinet is not arranged for *SLC 96* Carrier Systems on a standard basis. The *SLC Series 5* Carrier System plug-in circuit packs are not provided with this cabinet and must be ordered separately. See Chapter 5 of this document for ordering plug-ins.

Compatibility of ED-7C621-30 Group Combinations

80E distributed power cabinets with metallic feeder

Use the following table to check the compatibility of specific ED-7C695-30 group combinations in 80E distributed power cabinets with metallic feeder. In the table, a box (■) in the row indicates group compatibility with the main cabinet number in the corresponding column but does not indicate that the group is always required. A cabinet ordered with incompatible group combinations may result in a shipping delay for the completed cabinet.

Sub-group Number	Main Cabinet Group Number							
	G1	G2	G3	G4	G5	G6	G13	G14
G30	■	■	■	■	■	■	■	■
G31	■	■	■	■	■	■	■	■
G32	■	■	■	■	■	■	■	■
G33	■	■	■	■	■	■	■	■
G34	■	■	■	■	■	■	■	■
G35	■	■	■	■	■	■	■	■
G36	■	■	■	■	■	■	■	■
G38	■	■	■	■	■	■	■	■
G40	■	■	■	■	■	■	■	■
G75	-	-	-	-	-	-	-	-
G76	-	-	-	-	-	-	-	-
G77	-	-	-	-	-	-	-	-
G78	-	-	-	-	-	-	-	-
G82	-	-	-	-	-	-	-	-
G84	-	-	-	-	-	-	-	-
G85	-	-	-	-	-	-	-	-
G86	-	-	-	-	-	-	-	■
G87	-	-	-	-	-	-	-	-
G93	-	-	-	-	-	-	-	-
G125	■	■	■	■	■	■	■	■
G126	■	■	■	■	■	■	■	■
G127	■	■	■	■	■	■	■	■

(Continued on next page)

Compatibility of ED-7C621-30 Group Combinations (Continued)

80E distributed power cabinets with fiber feeder

Use the following table to check the compatibility of specific ED-7C695-30 group combinations in 80E distributed power cabinets with fiber feeder. In the table, a box (■) in the row indicates group compatibility with the main cabinet number in the corresponding column but does not indicate that the group is always required. A cabinet ordered with incompatible group combinations may result in a shipping delay for the completed cabinet.

Sub-group Number	Main Cabinet Group Number								
	G58	G59	G70	G71	G73	G74	G88	G90	G91
G30	■	■	■	■	■	■	■	■	■
G31	■	■	■	■	■	■	■	■	■
G32	■	■	■	■	■	■	■	■	■
G33	■	■	■	■	■	■	■	■	■
G34	■	■	■	■	■	■	■	■	■
G35	■	■	■	■	■	■	■	■	■
G36	■	■	■	■	■	■	■	■	■
G38	■	■	■	■	■	■	■	■	■
G40	-	-	-	-	-	-	-	-	-
G75	■	-	-	-	■	-	-	-	-
G76	-	■	-	-	-	■	-	-	-
G77	-	-	■	-	-	-	-	■	-
G78	-	-	-	■	-	-	-	-	■
G82	-	-	-	-	-	-	-	■	■
G84	-	-	-	-	-	-	-	-	■
G85	-	-	■	■	-	-	-	■	■
G86	-	-	-	-	-	-	-	-	-
G87	-	-	-	-	-	-	■	-	-
G93	-	-	-	-	-	-	-	-	■
G125	■	■	■	■	■	■	■	■	■
G126	■	■	■	■	■	■	■	■	■
G127	■	-	■	-	■	-	-	■	-

80E Cabinet Group Descriptions

Introduction Order wording and group descriptions for the 80E cabinet are shown in ascending order. Group numbers not shown were *unassigned* at the time this document was released. Unless otherwise stated, the maximum per-cabinet order for each group is one. Unless otherwise specified, each group listed has a rating of general availability.

ED-7C695-30, G1 Order this cabinet assembly to receive an 80E cabinet arranged for four Series 5 DCBs with metallic (T1) facilities and an 1800-pair, 76-type binding post FDI with raw-ended harness.

ED-7C695-30, G2 Order this cabinet assembly to receive an 80E cabinet arranged for four Series 5 DCBs with metallic (T1) facilities and an 1800-pair, 76-type binding post FDI with 710 male connectorized harness.

ED-7C695-30, G3 Order this cabinet assembly to receive an 80E cabinet arranged for four Series 5 DCBs with metallic (T1) facilities and an 1800-pair, 76-type binding post FDI with 710 capless female connectorized harness.

ED-7C695-30, G4 Order this cabinet assembly to receive an 80E cabinet arranged for four Series 5 DCBs with metallic (T1) facilities and a 2400-pair, 76-type binding post FDI with raw-ended harness.

ED-7C695-30, G5 Order this cabinet assembly to receive an 80E cabinet arranged for four Series 5 DCBs with metallic (T1) facilities and a 2400-pair, 76-type binding post FDI with 710 male connectorized harness.

ED-7C695-30, G6 Order this cabinet assembly to receive an 80E cabinet arranged for four Series 5 DCBs with metallic (T1) facilities and a 2400-pair, 76-type binding post FDI with 710 capless female connectorized harness.

(Continued on next page)

80E Cabinet Group Descriptions (Continued)

ED-7C695-30, G13 Order this cabinet assembly to receive an 80E cabinet arranged for four Series 5 DCBs with metallic (T1) facilities, associated equipment, and space reserved for an FDI.

ED-7C695-30, G14 Order this cabinet assembly to receive an 80E cabinet arranged for six Series 5 DCBs with metallic (T1) facilities and associated equipment. This cabinet does not have space for an FDI.

**ED-7C695-30,
G25^{DA}** This group is rated DA and is replaced by G125.

ED-7C695-30, G26 This group is rated DA and is replaced by G126.

**ED-7C695-30,
G27^{DA}** This group is rated DA and is replaced by G127.

ED-7C695-30, G30  **NOTE:**
This group is not compatible with G38.

Order In addition to G1-G6, G13, G14, G70, G71, G90, or G91 to replace the standard generator inlet with a Hubbell 430B9W inlet.

ED-7C695-30, G31 This group is required in addition to G1-G6, G13, G14, G70, G71, G88, G90, or G91 to provide a power meter cover.

ED-7C695-30, G32 Order in addition to any main cabinet group equipped with G31 or G36 to provide a cover assembly to balance the cabinet appearance.

(Continued on next page)

80E Cabinet Group Descriptions (Continued)

ED-7C695-30, G33 Order in addition to any main cabinet assembly (equipped with G30) to provide a 25-foot long extension cord.

ED-7C695-30, G34 Order in addition to any main cabinet group to provide a 9F power panel. This group is used when customers provide their own locally approved transfer switch and emergency power inlet.

ED-7C695-30, G35 Order in addition to any main cabinet group (equipped with G34) to provide an externally mounted power transfer switch.

ED-7C695-30, G36 Order in addition to any main cabinet assembly (equipped with G34) to provide an externally mounted power transfer switch and a power meter cover.

ED-7C695-30, G38  **NOTE:**
This group is not compatible with G30.

Order in addition to any main cabinet assembly to replace the standard generator inlet with a Hubbell 430B12W inlet.

ED-7C695-30,
G39^{DA} This group is rated DA and is replaced by G40.

ED-7C695-30, G40 Order in addition to a G1-G6, G13, or G14 cabinet assembly to replace the standard 66-type block with a 9-type terminal block for cross-connection of miscellaneous pairs.

ED-7C695-30, G70 Order this cabinet assembly to receive an 80E cabinet arranged for five Series 5 DCBs on fiber feeder and one DDM-1000 multiplexer. This group includes one DSX tie-block panel (*without DSX jumpers*) and one LSCIU lightguide shelf.

(Continued on next page)

80E Cabinet Group Descriptions (Continued)

ED-7C695-30, G71 Order this cabinet assembly to receive an 80E cabinet arranged for four Series 5 DCBs, one DDM-1000 multiplexer, and two SXSS T-repeater shelves. This group includes one DSX tie-block panel (*without DSX jumpers*) and one LSCIU lightguide shelf.

ED-7C695-30, G73  **NOTE:**
DSX cross-connect jumpers are not included with this group.

Order this cabinet to receive an 80E cabinet arranged for five Series 5 DCBs and one DDM-1000 multiplexer. This group includes two 800-series DSX panels and one LSC1U lightguide shelf.

ED-7C695-30, G74  **NOTE:**
DSX cross-connect jumpers are not included with this group.

Order this cabinet assembly to receive an 80E cabinet arranged for four Series 5 DCBs, one DDM-1000 multiplexer, two SXSS T-repeater shelves, and one LSC1U lightguide shelf.

ED-7C695-30, G75 Order in addition to a G58 or G73 cabinet assembly to provide cabling and protector units for initial T1 feeder capacity to the central office terminal (COT) and future field conversion to lightguide feeder cable.

ED-7C695-30, G76 Order in addition to a G59 or G74 cabinet assembly to provide cabling and protector units for initial T1 feeder capacity to the COT and future field conversion to lightguide feeder cable.

ED-7C695-30, G77 Order in addition to a G70 or G90 cabinet assembly to provide cabling and protector units for initial T1 feeder capacity to the COT and future field conversion to lightguide feeder cable.

(Continued on next page)

80E Cabinet Group Descriptions (Continued)

ED-7C695-30, G78 Order in addition to a G71 or G91 cabinet assembly to provide cabling and protector units for initial T1 feeder capacity to the COT and future field conversion to lightguide feeder cable.

ED-7C695-30, G82 Order in addition to a G70, G71, G90, or G91 cabinet assembly to provide a DDM-1000 multiplexer in position 6.

ED-7C695-30, G84  **NOTE:**
If cabinet assembly is a G71 or G91 and includes both G82 and G93, then G84 is **always required**.

Order in addition to a G71 or G91 cabinet assembly to provide a 181A apparatus mounting.

ED-7C695-30, G85 Order in addition to a G70, G71, G90, or G91 cabinet assembly to provide for continuous fan operation in a cabinet equipped with or without one Series 5 DCB.

ED-7C695-30, G86 Order in addition to a G14 cabinet assembly to provide for continuous fan operation in a cabinet equipped with or without one Series 5 DCB.

ED-7C695-30, G87 This group is required in addition to a G88 cabinet assembly to provide a 180-Mb/s DDM-1000 multiplexer in position 6. The following equipment is included with this group:

- (2) 2B fan units
 - (2) DDM-1000 shelves
 - (6) 181A apparatus mountings.
-

(Continued on next page)

80E Cabinet Group Descriptions (Continued)

ED-7C695-30, G88 Order this cabinet assembly to receive an 80E cabinet arranged for two Series 5 DCBs using fiber feeder, one DDM-1000 multiplexer, and eight SXSS T-repeater shelves. This group contains two DSX tie-block panels and one LSC1U lightguide shelf.

ED-7C695-30, G90 Order this cabinet assembly to receive an 80E cabinet arranged for five Series 5 DCBs and one DDM-1000 multiplexer. This group contains one DSX tie-block panel and one LSC1U lightguide shelf.

ED-7C695-30, G91 Order this cabinet assembly to receive an 80E cabinet arranged for four Series 5 DCBs, one DDM-1000 multiplexer, and two SXSS T-repeater shelves. This group contains one DSX tie-block panel and one LSC1U lightguide shelf.

ED-7C695-30, G93 Order in addition to a G71, G74, G88, or G91 cabinet assembly to provide an SXSS T-repeater shelf (J98725CA L1, L2, L4). Each SXSS shelf will accommodate 12 repeaters.

ED-7C695-30, G125 Order **(3 Max.)** in addition to a G1-G6, G13, G70, G71, G88, G90, or G91 cabinet assembly to provide the first or third Series 5 DCB **or** in addition to a G14 cabinet assembly to provide the first, third, or fifth Series 5 DCB (J1C182AE-1, L3).

ED-7C695-30, G126 Order **(3 Max.)** in addition to a G1-G6, or G13 cabinet assembly to provide the second Series 5 DCB **or** in addition to a G14, G70, G71, G88, G90, or G91 cabinet assembly to provide the second or fourth Series 5 DCB.

ED-7C695-30, G127 Order in addition to G1-G6 or G13 cabinet assembly to provide the fourth Series 5 DCB **or** in addition to a G58, G70, G73, G74, or G90 cabinet assembly to provide the fifth Series 5 DCB **or** in addition to a G14 cabinet assembly to provide the sixth Series 5 DCB.

Batteries and Miscellaneous Equipment

Introduction

This section provides information on batteries and miscellaneous equipment needed for cabinet maintenance or installation.

128E Bracket

This bracket is used to locate accurately the mounting inserts and cable openings in the concrete pad and becomes a permanent part of the pad.

Comcode 104439831

80E Cabinet Related Documentation

List of 80E cabinet related documentation

The following table lists Lucent Technologies documentation where additional information may be found concerning the 80E cabinet and associated equipment. To order one or more of the following documents, refer to the "About This Document" section of this document.

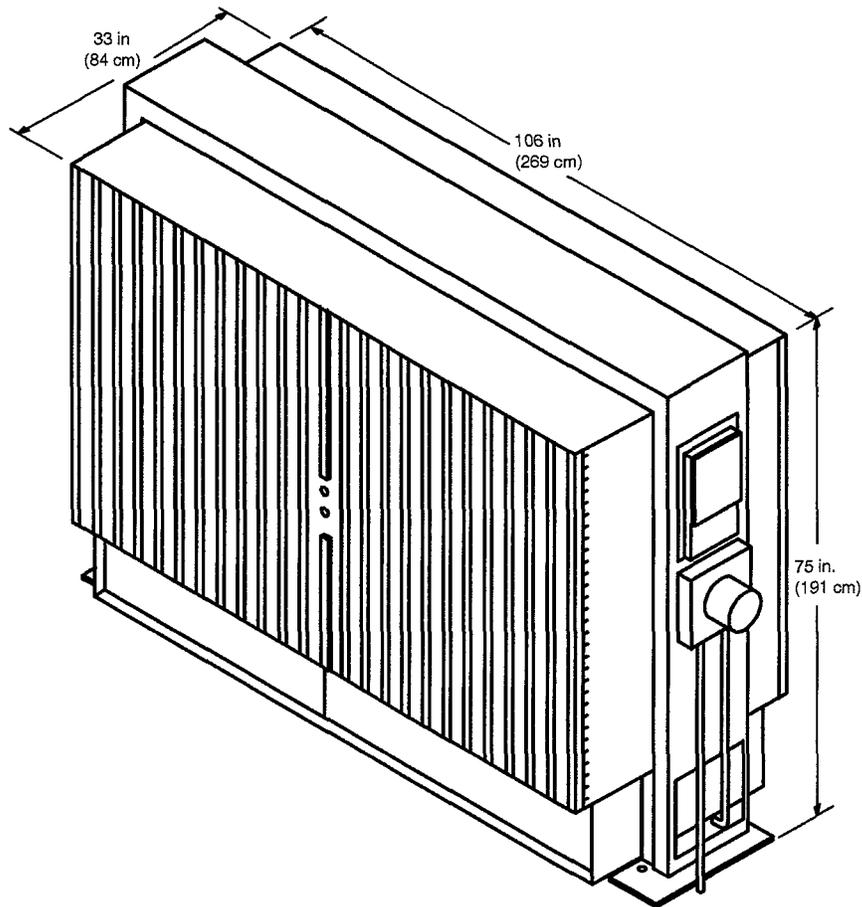
Document	Title
363-205-010	<i>SLC® Series 5 Carrier System Applications and Planning Guide</i>
363-206-100	<i>DDM-1000 User/Service Manual</i>
365-200-106	<i>Small Cross-Section Office Repeater Shelf Description, Installation, and Maintenance</i>
626-500-105	<i>80-Type Cabinets Coding Scheme, Ordering Information and Lettering Guidelines</i>
631-600-240	<i>80-Type Cabinets — Installation</i>
640-250-247	<i>Field Installation of Series 5 RT into 80 Type Cabinets Precabled for SLC Series 5 Carrier Systems</i>
640-250-256	<i>80E Cabinet (Fiber) Description, Installation and Splicing SLC Series 5 Carrier System and SXSS Repeater Shelves</i>
640-250-327	<i>80E Cabinet Remote Terminal Description, Installation, and Splicing SLC Series 5 Carrier System (Metallic)</i>
915-710-115	<i>SLC Series 5 Carrier System Application Engineering Practice (Issue 2 or higher)</i>
633 WIP 009	<i>80-Type Cabinet-Splicing with 710 Connectors</i>
J1C182AE-1	<i>RT Dual Channel Bank</i>
J1C182BA-1	<i>RT Power Shelf</i>
ED-1T281-01	<i>Concrete Pad for 80E Cabinet</i>

80E-BP Cabinet (ED-7C703-30)

Overview

General

The 80E-BP cabinet (as shown in the following figure) is shipped factory assembled and completely prewired. This cabinet provides up to 100 percent more system capacity than the 80D distributed power cabinet. This cabinet uses a common -48 V DC power plant (with battery reserve) to power all carrier equipment in the cabinet. A common ringing plant is also provided. The reserve power batteries are placed outside the equipment mounting area and are independent of the carrier equipment configuration. Since power is provided by a bulk power plant, a power shelf per J1C182BA-1 or J1C182BB-1 used in other RT enclosures is not required. The ringing function normally provided by a J1C182BA-1 or J1C182BB-1 shelves is provided by a J1C182BC-1 ringing shelf.



(Continued on next page)

Overview (Continued)

General (continued)

The cabinet is equipped as required with an AC power panel, 307-type connector blocks, 800-type DSX panels, and plug-in line protector units for the ultimate carrier system capacity of the cabinet. Plug-in protector units for the derived pairs will also be provided with each dual channel bank ordered. When arranged for lightguide operation, the cabinet is equipped with a lightwave multiplexer and DSX and can also be equipped with up to two extension shelves. Various AC power system and FDI arrangements are available by ordering standard ED-7C703-30 group configurations.

Compatibility of ED-7C703-30 group combinations

Use the following table to check the compatibility of specific ED-7C703-30 group combinations. In the table, a box (■) in the row indicates group compatibility with the main cabinet number in the corresponding column but does not indicate that the group is always required.

Subgroup Numbers	Main Cabinet Group Numbers				
	Metallic Feeder		Fiber Feeder		
	G13	G14	G89	G90	G190
G4, G5, or G6	■	-	■	-	-
G7, G8, or G9	■	-	■	-	-
G10, G11, or G12	■	-	■	-	-
G19	-	-	■	■	■
G24	-	-	-	■	-
G30, G34, or G35	■	■	■	■	■
G38, G41, or G42	■	■	■	■	■
G43, G44, or G45	■	■	■	■	■
G46	■	■	■	■	■
G50	■	■	■	■	■
G51	-	-	-	■	-
G52 or G53	-	-	■	-	-
G54, G55, or G56	-	-	■	■	-

(Continued on next page)

Overview (Continued)

Compatibility of
ED-7C703-30
group
combinations
(continued)

Subgroup Numbers	Main Cabinet Group Numbers				
	Metallic Feeder		Fiber Feeder		
	G13	G14	G89	G90	G190
G57, G58, or G59	-	-	■	■	-
G60	■	■	■	■	■
G61	■	■	■	■	■
G62 or G63	■	■	■	■	■
G64 or G65	-	-	■	■	-
G66, G67, G68, or G69	-	-	-	■	-
G81	-	-	■	■	-
G83	-	-	■	■	■
G85	■	■	■	■	■
G93	-	-	-	■	-
G95	-	-	■	■	-
G96	-	-	■	■	-
G119	-	-	■	■	■
G128	■	■	■	■	■
G155 or G158	-	-	-	-	■
G181	-	-	-	-	■
G194	-	-	■	■	■
G195	-	-	■	■	■
G196	-	-	■	■	■
G197	-	-	■	■	■

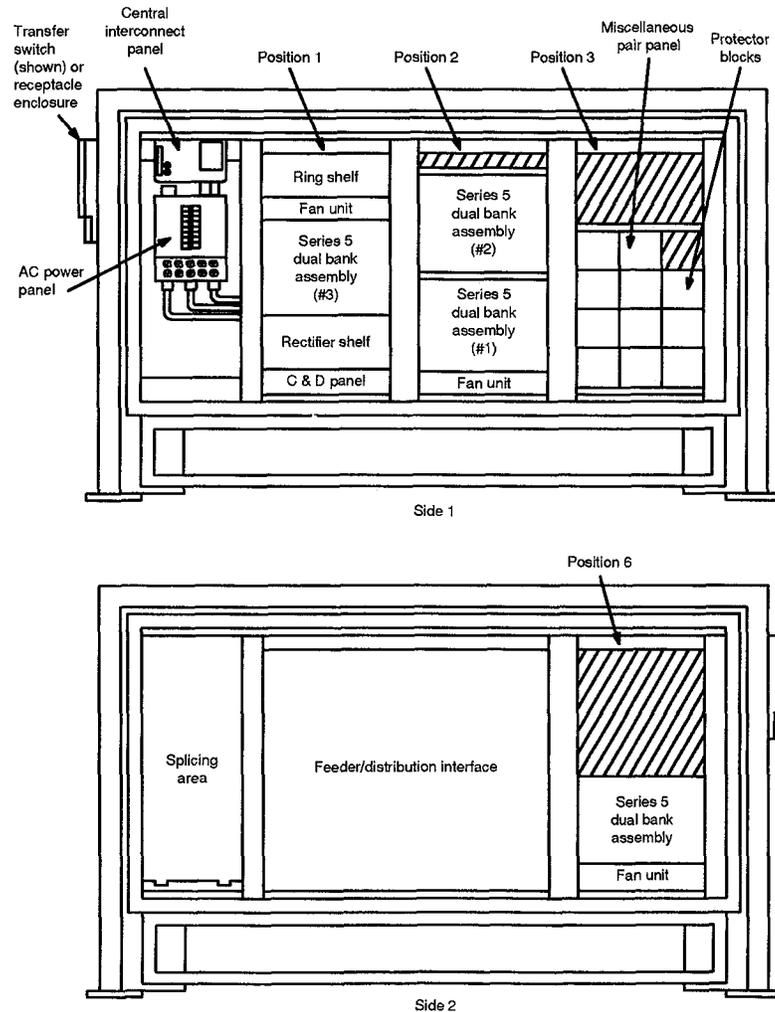
Typical Equipment Arrangements in Cabinet Assemblies

80E-BP cabinet group 13

The following figure is provided to illustrate typical equipment placement in an 80E-BP group 13. A cabinet ordered with incompatible group combinations may result in a shipping delay for the completed cabinet.

See the section entitled "80E-BP Cabinet Group Descriptions" to obtain the order wording, ordering status, and special considerations (if any).

Plug-in circuit packs required for Series 5 Carrier Systems are not provided with the cabinet and must be ordered separately. See Chapter 5 of this document for circuit pack ordering information.



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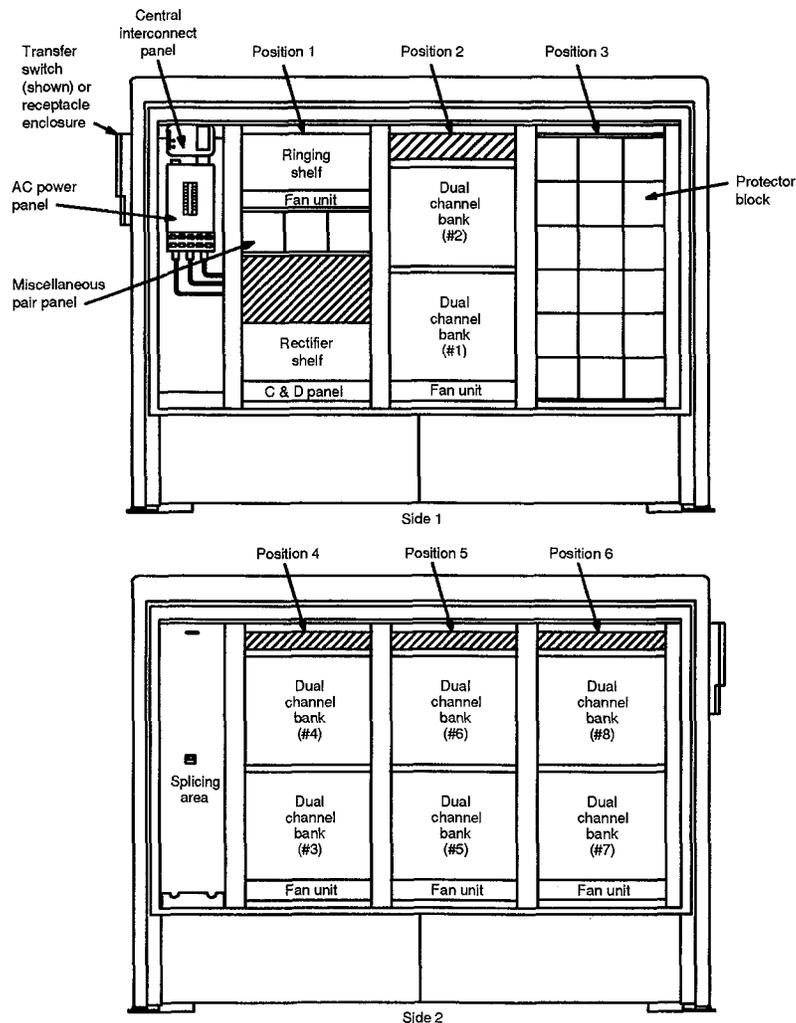
Typical Equipment Arrangements in Cabinet Assemblies (Continued)

80E-BP cabinet group 14

The following figure is provided to illustrate typical equipment placement in an 80E-BP group 14. A cabinet ordered with incompatible group combinations may result in a shipping delay for the completed cabinet.

See the section entitled "80E-BP Cabinet Group Descriptions" to obtain the order wording, ordering status, and special considerations (if any).

Plug-in circuit packs required for Series 5 Carrier Systems are not provided with the cabinet and must be ordered separately. See Chapter 5 of this document for circuit pack ordering information.



tpa 814124-01

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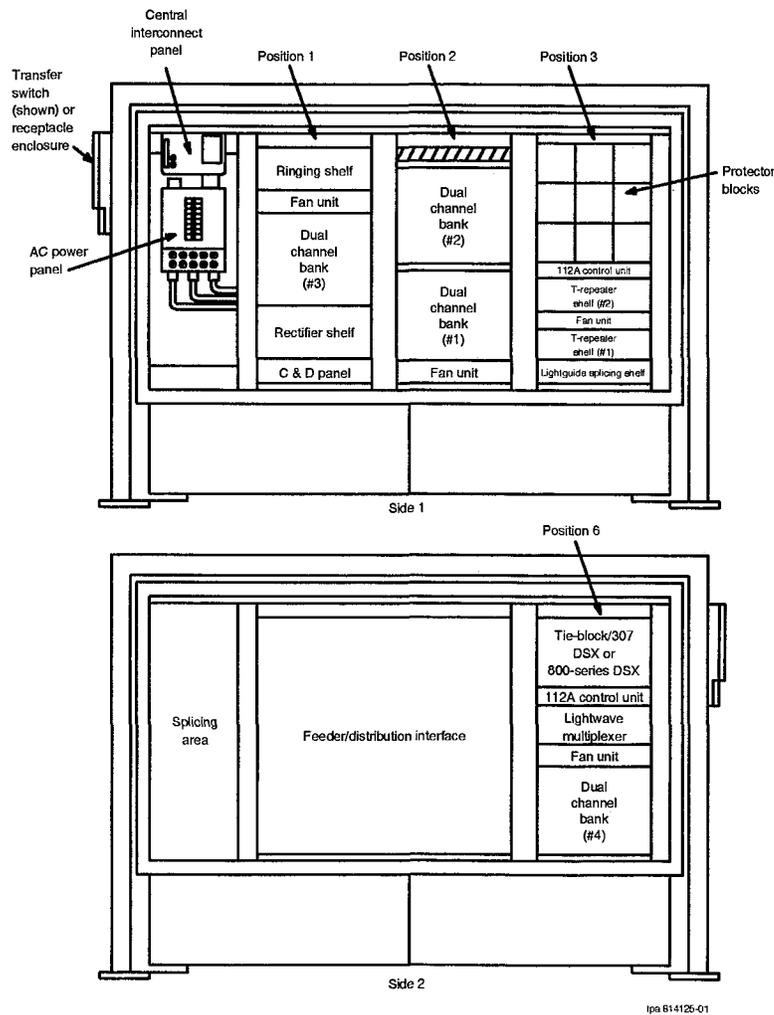
Typical Equipment Arrangements in Cabinet Assemblies (Continued)

80E-BP cabinet group 89

The following figure is provided to illustrate typical equipment placement in an 80E-BP group 89. A cabinet ordered with incompatible group combinations may result in a shipping delay for the completed cabinet.

See the section entitled "80E-BP Cabinet Group Descriptions" to obtain the order wording, ordering status, and special considerations (if any).

Plug-in circuit packs required for Series 5 Carrier Systems are not provided with the cabinet and must be ordered separately. See Chapter 5 of this document for circuit pack ordering information.



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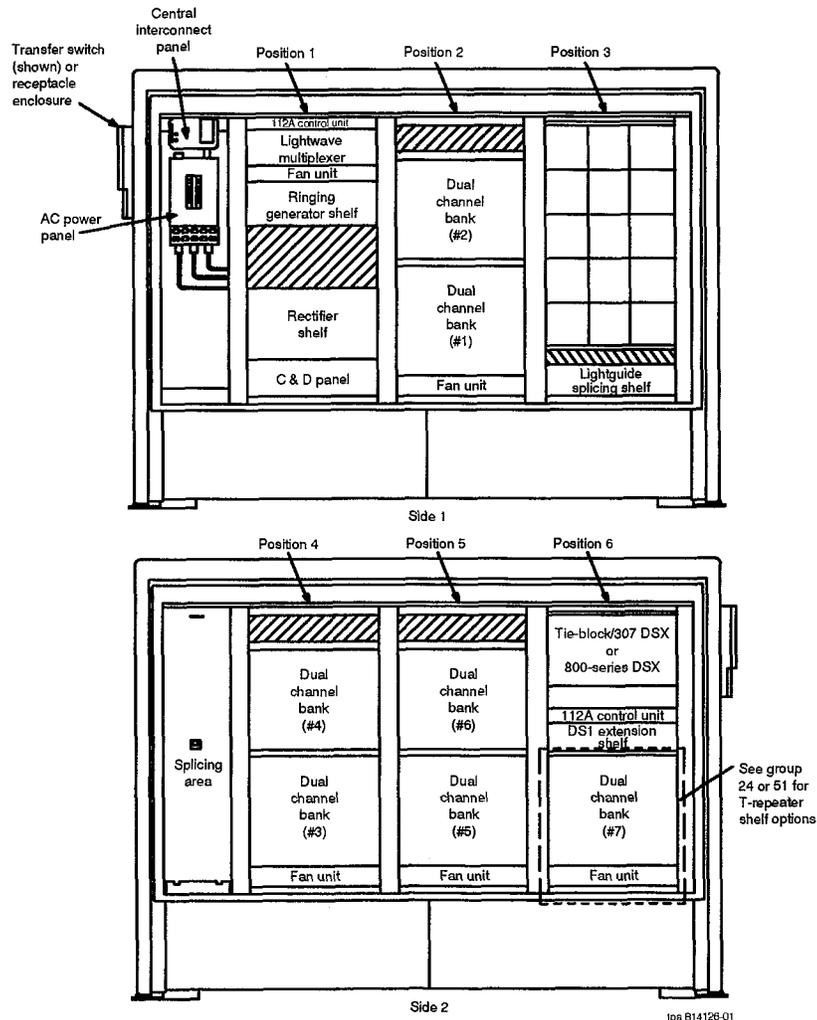
Typical Equipment Arrangements in Cabinet Assemblies (Continued)

80E-BP cabinet group 90

The following figure is provided to illustrate typical equipment placement in an 80E-BP group 90. A cabinet ordered with incompatible group combinations may result in a shipping delay for the completed cabinet.

See the section entitled "80E-BP Cabinet Group Descriptions" to obtain the order wording, ordering status, and special considerations (if any).

Plug-in circuit packs required for Series 5 Carrier Systems are not provided with the cabinet and must be ordered separately. See Chapter 5 of this document for circuit pack ordering information.



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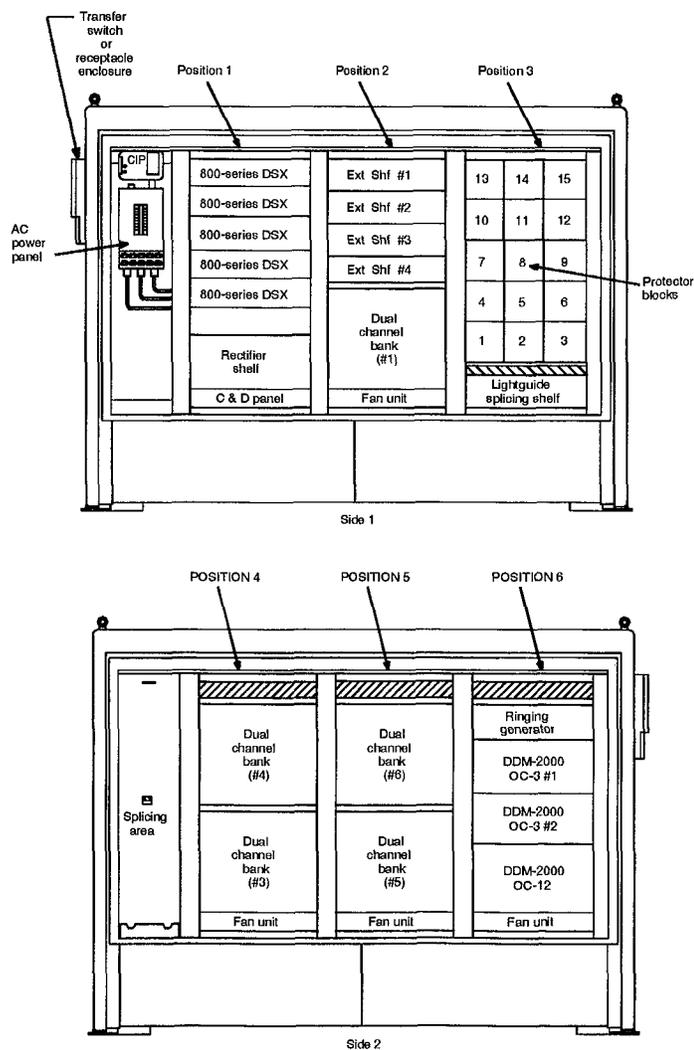
Typical Equipment Arrangements in Cabinet Assemblies (Continued)

80E-BP cabinet group 190

The following figure is provided to illustrate typical equipment placement in an 80E-BP group 190. A cabinet ordered with incompatible group combinations may result in a shipping delay for the completed cabinet.

See the section entitled "80E-BP Cabinet Group Descriptions" to obtain the order wording, ordering status, and special considerations (if any).

Plug-in circuit packs required for Series 5 Carrier Systems are not provided with the cabinet and must be ordered separately. See Chapter 5 of this document for circuit pack ordering information.



80E-BP Cabinet Group Descriptions

Introduction Order wording and group descriptions for the 80E-BP cabinet are shown in ascending order. Group numbers not shown were *unassigned* at the time this document was released. Unless otherwise stated, the maximum per cabinet order for each group is one. Unless otherwise specified, each group listed has a rating of general availability.

ED-7C703-30, G4 Order in addition to a G13 or G89 cabinet assembly to equip the cabinet with a 2400-pair, 76-type binding post FDI with a raw-ended harness.

ED-7C703-30, G5 Order in addition to a G13 or G89 cabinet assembly to equip the cabinet with a 2400-pair, 76-type binding post FDI with a 710 male connectorized harness.

ED-7C703-30, G6 Order in addition to a G13 or G89 cabinet assembly to equip the cabinet with a 2400-pair, 76-type binding post FDI with a 710 capless female connectorized harness.

ED-7C703-30, G7 Order in addition to a G13 or G89 cabinet assembly to equip the cabinet with a 2700-pair, 108-type quick-connect FDI with raw-ended harness.

ED-7C703-30, G8 Order in addition to a G13 or G89 cabinet assembly to equip the cabinet with a 2700-pair, 108-type quick-connect FDI with a 710 male connectorized harness.

ED-7C703-30, G9 Order in addition to a G13 or G89 cabinet assembly to equip the cabinet with a 2700-pair, 108-type quick-connect FDI with a 710 capless female connectorized harness.

ED-7C703-30, G10 Order in addition to a G13 or G89 cabinet assembly to equip the cabinet with a 3600-pair, 108-type quick-connect FDI with raw-ended harness.

(Continued on next page)

80E-BP Cabinet Group Descriptions (Continued)

ED-7C703-30, G11 Order in addition to a G13 or G89 cabinet assembly to equip the cabinet with a 3600-pair, 108-type quick-connect FDI with a 710 male connectorized harness.

ED-7C703-30, G12 Order in addition to a G13 or G89 cabinet assembly to equip the cabinet with a 3600-pair, 108-type quick-connect FDI with a 710 capless female connectorized harness.

ED-7C703-30, G13 Order this assembly to receive an 80E-BP cabinet, wiring, and apparatus required for an FDI and arranged for up to four Series 5 DCBs using metallic line facilities. The assembly includes battery heaters, a CIP, an ED-7C629-30, G1 MPP, (nine) 307-type protector blocks, (20) 3B1EW protector units, (80) 3B3EW protector units, and one 6W3F test cord. In addition to the G13 cabinet assembly, you *must* order/specify the following:

- FDI per G4 — G12
- AC power system per G30, G34, G35, G38, G41-G46
- Fan unit (1 Min.) per G50
- DC power system per G60
- Ringing system per G61.

Transmission equipment may be factory installed and shipped with the cabinet or deferred until required and field installed in the cabinet. Additional cooling fans (G50) are required as transmission equipment is installed in the cabinet. Order a second G50 when the first Series 5 DCB is installed in the cabinet. Order the maximum number of G50s (3) when three Series 5 DCBs are required.

(Continued on next page)

80E-BP Cabinet Group Descriptions (Continued)

ED-7C703-30, G14 Order this assembly to receive an 80E-BP cabinet, wiring, and apparatus arranged for up to eight Series 5 DCBs using metallic line facilities. The assembly includes battery heaters, a CIP, an ED-7C629-30, G1 MPP, (18) 307-type protector blocks, (20) 3B1EW protector units, (160) 3B3EW protector units, and one 6W3F test cord. In addition to the G14 cabinet assembly, you *must* order/ specify the following:

- AC power system per G30, G34, G35, G38, G41-G46
- Fan unit (1 Min.) per G50
- DC power system per G60
- Ringing system per G61.

Transmission equipment may be factory installed and shipped with the cabinet or deferred until required and field installed in the cabinet. Additional cooling fans (G50) are required as transmission equipment is installed in the cabinet. Order a second G50 when the first Series 5 DCB is installed in the cabinet. Order a third G50 when adding the third DCB; order a fourth G50 when adding the fifth DCB; and order the maximum number of G50s (5) when adding the seventh DCB.

ED-7C703-30, G19 Order **(1 Max.)** in addition to a G89 or **(1 Max.)** in addition to a G90 cabinet assembly (equipped with G24) or **(4 Max.)** in addition to G190 cabinet assembly to provide a DS1 extension shelf.

Order **(1 Max.)** in addition to a G90 cabinet assembly when cabinet is not equipped with G24.

ED-7C703-30, G24 Order in addition to a G90 cabinet assembly to arrange the cabinet for an additional extension shelf (G19 or G119). Do not order with G51.

**ED-7C703-30,
G28^{DA}** This group is rated DA and is replaced by G128.

ED-7C703-30, G30 Order in addition to a G13, G14, G89, G90, or G190 cabinet assembly to provide an AC power system which includes AC power with interlock, a generator inlet enclosure equipped with a 30A pin and sleeve 240 V AC, 3-phase standard receptacle (Hubbell 430B9W), conduit, and wiring.

(Continued on next page)

80E-BP Cabinet Group Descriptions (Continued)

ED-7C703-30, G34 Order in addition to a G13, G14, G89, G90, or G190 cabinet assembly to provide an AC power system which includes an AC power panel, conduit, and wiring.

ED-7C703-30, G35 Order in addition to a G13, G14, G89, G90, or G190 cabinet assembly to provide an AC power system which includes an AC power panel, a leg-mounted transfer switch equipped with a 30A *TWIST-LOCK* electric flush receptacle (Hubbell 2715), conduit, and wiring.

ED-7C703-30, G38 Order in addition to a G13, G14, G89, G90, or G190 cabinet assembly to provide an AC power system which includes an AC power panel with interlock, a generator inlet enclosure equipped with a receptacle 30A pin and sleeve 120/240 V AC standard receptacle (Hubbell 430B12W), conduit, and wiring.

ED-7C703-30, G41 Order in addition to a G13, G14, G89, G90, or G190 cabinet assembly to provide an AC power system which includes an AC power panel with interlock, a generator inlet enclosure equipped with a 30A *TWIST-LOCK* electric flush receptacle (Hubbell 2715), conduit, and wiring.

ED-7C703-30, G42 Order in addition to a G13, G14, G89, G90, or G190 cabinet assembly to provide AC power system which includes an AC power panel, a leg-mounted transfer switch equipped with a 30A pin and sleeve 240 V AC, 3-phase standard receptacle (Hubbell 430B9W), conduit, and wiring.

ED-7C703-30, G43 Order in addition to a G13, G14, G89, G90, or G190 cabinet assembly to provide an AC power system which includes an AC power panel, a leg-mounted transfer switch equipped with a 30A pin and sleeve 120/240 V AC standard receptacle (Hubbell 430B12W), conduit, and wiring.

ED-7C703-30, G44 Order in addition to a G13, G14, G89, G90, or G190 cabinet assembly to provide an AC power system which includes an AC power panel, a leg-mounted transfer switch equipped with a 100 A pin and sleeve 240 V AC, 3-phase standard receptacle (Hubbell 4100B9W), conduit, and wiring.

(Continued on next page)

80E-BP Cabinet Group Descriptions (Continued)

ED-7C703-30, G45 Order in addition to a G13, G14, G89, G90, or G190 cabinet assembly to provide an AC power system which includes an AC power panel, a leg-mounted transfer switch equipped with a 100A pin and sleeve 120/240 V AC standard receptacle (Hubbell 4100B12W), conduit, and wiring.

ED-7C703-30, G46 Order in addition to G44 or G45 to provide AC service to a collocated cabinet.

ED-7C703-30, G50 **Always required;** order **(5 Max.)** in addition to a G14 or G90 cabinet assembly, or **(4 Max.)** in addition to a G89 or G190 cabinet assembly or **(3 Max.)** in addition to a G13 cabinet assembly to provide one 2B fan unit.

ED-7C703-30, G51 Order in addition to a G90 cabinet assembly to provide apparatus and wiring to arrange the cabinet for one or two T1-repeater shelves per G93. Do not order with G24.

ED-7C703-30, G52 Order in addition to a G89 cabinet assembly (equipped with G83) to provide an 800-series DSX (*without DSX jumpers*) arranged for up to four Series 5 DCBs and 28 DS1 extensions.

ED-7C703-30, G53 Order in addition to a G89 cabinet assembly (equipped with G83) to provide an 800-series DSX with jumpers arranged for up to four Series 5 DCBs and 28 DS1 extensions.

ED-7C703-30, G54 Order in addition to a G89 or G90 cabinet assembly to provide a tie-block/307 DSX (*without jumpers*).

ED-7C703-30, G55 Order in addition to a G89 or G90 cabinet assembly to provide an 800-series DSX (*without DSX jumpers*) for a cabinet equipped with a DDM-1000 multiplexer.

(Continued on next page)

80E-BP Cabinet Group Descriptions (Continued)

ED-7C703-30, G56 Order in addition to a G89 or G90 cabinet assembly to provide a tie-block/307 DSX with DSX jumpers arranged for seven Series 5 DCBs (for cabinets equipped with a DDM-1000) or arranged for seven Series 5 DCBs and 28 DS1 extensions (for cabinets with a DDM-2000 OC-3 Multiplexer shelf).

ED-7C703-30, G57 Order in addition to a G89 or G90 cabinet assembly to provide a tie-block/307 DSX with DSX jumpers arranged for four Series 5 DCBs and 24 T-repeaters.

ED-7C703-30, G58 Order in addition to a G89 or G90 cabinet assembly to provide an 800-series DSX with DSX jumpers arranged for seven Series 5 DCBs (for cabinets equipped with a DDM-1000).

ED-7C703-30, G59 Order in addition to a G89 or G90 cabinet assembly to provide an 800-series DSX with DSX jumpers arranged for four Series 5 DCBs and 24 T-repeaters (for cabinets with a DDM-1000).

ED-7C703-30, G60 **Always required;** order in addition to a G13, G14, G89, G90, or G190 cabinet assembly to provide the -48 V DC bulk power system. This group includes the following equipment:

- ED-7C704-30, G1 rectifier shelf
- ED-83114-30, G1 control and distribution panel
- AYK1 control circuit pack
- AYK2 control circuit pack.

The AYK1 and AYK2 circuit packs are shipped with the cabinet and installed in the control and distribution panel.

ED-7C703-30, G61 **Always required;** order in addition to a G13, G14, G89, G90, or G190 cabinet assembly to provide the bulk ringing capability (J1C182BC-1).

(Continued on next page)

80E-BP Cabinet Group Descriptions (Continued)

ED-7C703-30, G62  **NOTE:**
Batteries are not included with this group.

Order **(4 Max.)** in addition to a G13, G14, G89, G90, or G190 cabinet assembly to provide cabling and associated material for one 100 amp-hour string of *CHLORIDE 3VB11* batteries.

ED-7C703-30, G63  **NOTE:**
Batteries are not included with this group.

Order **(4 Max.)** in addition to a G13, G14, G89, G90, or G190 cabinet assembly to provide cabling and associated material for one 110 amp-hour string of Lucent Technologies *Lineage 2000 VR Series* batteries.

ED-7C703-30, G64 Order in addition to a G89 or G90 cabinet assembly to provide a tie-block/307 DSX with jumpers configured for six Series 5 DCBs and 36 DS1 extensions.

ED-7C703-30, G65 Order in addition to a G89 or G90 cabinet assembly to provide a tie-block/307 DSX with jumpers configured for four Series 5 DCBs and 54 DS1 extensions.

ED-7C703-30, G66 Order in addition to a G90 cabinet assembly to provide an 800-series DSX (*without DSX jumpers*) for cabinets equipped with a DDM-2000 OC-3 Multiplexer shelf.

ED-7C703-30, G67 Order in addition to a G90 cabinet assembly to provide an 800-series DSX with jumpers configured for seven Series 5 DCBs and 28 DS1 extensions for cabinets equipped with a DDM-2000 OC-3 Multiplexer shelf.

ED-7C703-30, G68 Order in addition to a G90 cabinet assembly to provide an 800-series DSX with jumpers configured for six Series 5 DCBs and 36 DS1 extensions for cabinets equipped with a DDM-2000 OC-3 multiplexer shelf.

(Continued on next page)

80E-BP Cabinet Group Descriptions (Continued)

ED-7C703-30, G69 Order in addition to a G90 cabinet assembly to provide an 800-series DSX with jumpers configured for four Series 5 DCBs and 52 DS1 extensions for cabinets equipped with a DDM-2000 OC-3 multiplexer shelf.

ED-7C703-30, G81 Order in addition to a G89 or G90 cabinet assembly to provide a DDM-1000 multiplexer shelf and associated wiring. This group includes the following equipment:

- ED-2C841-30, G2 DDM-1000 shelf assembly
 - ED-2C833-30, G10 low-speed interface cable assembly
 - ED-2C833-30, G11 low-speed interface cable assembly
 - ED-2C833-30, G12 overhead telemetry cable assembly
 - ED-2C833-30, G13 power, fan, cable assembly.
-

ED-7C703-30, G83 Order in addition to a **(1 Max.)** G89, **(1 Max.)** G90, or **(2 Max.)** G190 cabinet assembly to provide a DDM-2000 OC-3 multiplexer shelf and associated wiring.

ED-7C703-30, G85 Order in addition to a G13, G14, G89, G90, or G190 cabinet assembly to provide a cable assembly required to activate the fan units for humidity control in sparsely equipped cabinets.

ED-7C703-30, G89 Order this assembly to receive an 80E-BP cabinet, wiring, and apparatus arranged for an FDI, a DDM-1000 multiplexer or DDM-2000 OC-3 multiplexer shelf, and up to four Series 5 DCBs using lightguide facilities. The assembly includes battery heaters, a CIP, (nine) 307-type protector blocks, (two) 112A fan control units, (12) 3B1EW protector units, and one 6W3F test cord. In addition to the G89 cabinet assembly, you *must* order/specify the following:

- FDI per G4-G12
 - AC power system per G30, G34, G35, G38, G41-G46
 - Fan unit (2 Min.) per G50
-

(Continued on next page)

80E-BP Cabinet Group Descriptions (Continued)

ED-7C703-30, G89 (continued)

- DSX per G52-G59 or G64-G65
- DC power system per G60
- Ringing system per G61
- DDM-1000 multiplexer shelf per G81 **or**
DDM-2000 OC-3 multiplexer shelf per G83
- Lightguide splicing shelf and fiber jumpers per G95, G96, G195, or G196.

Transmission equipment may be factory installed and shipped with the cabinet or deferred until required and field installed in the cabinet. Additional cooling fans (G50) are required as transmission equipment is installed in the cabinet. Order a third G50 when the first Series 5 DCB is installed in the cabinet. Order the maximum number of G50s (4) when the first T-repeater shelf is added to the cabinet.

ED-7C703-30, G90

Order this assembly to receive an 80E-BP cabinet, wiring, and apparatus configured for a DDM-1000 multiplexer shelf or DDM-2000 OC-3 multiplexer shelf, up to seven Series 5 DCBs, and one DS1 extension shelf (*if DS1 extension shelf is provided, the capacity of Series 5 DCBs is six*) using lightguide facilities. The assembly includes battery heaters, a CIP, (15) 307-type protector blocks, one 112A fan control unit, (12) 3B1EW protector units, and one 6W3F test cord. In addition to the G90 cabinet assembly, you *must* order/specify the following:

- FDI per G4 — G12
 - AC power system per G30, G34, G35, G38, G41 — G46
 - Fan unit (2 Min.) per G50
 - DSX per G54 — G59 or G64 — G69
 - DC power system per G60
-

(Continued on next page)

80E-BP Cabinet Group Descriptions (Continued)

- ED-7C703-30, G90 (continued)
- Ringing system per G61
 - DDM-1000 multiplexer shelf per G81 **or**
DDM-2000 OC-3 multiplexer shelf per G83
 - Lightguide splicing shelf and fiber jumpers per G95, G96, G195, or G196.

Additional cooling fans (G50) are required as transmission equipment is installed in the cabinet. Order a second G50 when the first Series 5 DCB is installed in the cabinet. Order a third G50 when the third DCB is installed in the cabinet. Order a fourth G50 when adding the fifth DCB, and order the maximum number of G50s (5) when adding the seventh DCB or a T-repeater shelf.

- ED-7C703-30, G93
- Order in addition to a G89 or a G90 (equipped with G51) cabinet assembly to provide a SXSS T-repeater shelf assembly (J98725CA-1). This group includes (26) 3C3EW protector units.
-

- ED-7C703-30, G95
- Order in addition to a G89, G90, or G190 cabinet assembly (equipped with G81) to provide an LSC2U-024/5 lightguide splice shelf and associated apparatus.
-

- ED-7C703-30, G96
- Order in addition to a G89, G90, or G190 cabinet assembly (equipped with G81) to provide an LST1P-48ST/2.5 lightguide splice shelf and associated apparatus.
-

- ED-7C703-30, G119
- Order in addition to a **(1 Max.)** G89, **(2 Max.)** G90, or **(4 Max.)** G190 cabinet assembly to provide a DDM-Plus extension shelf.
-

- ED-7C703-30, G128
- Order in addition to a **(4 Max.)** G13, **(8 Max.)** G14, **(4 Max.)** G89, **(7 Max.)** G90, or **(5 Max.)** G190 cabinet assembly to provide a Series 5 DCB (J1C182AE-1, L3).
-

- ED-7C703-30, G155
- Order in addition to G190 to provide an 800-series DSX (*without DSX jumpers*) arranged for five Series 5 DCBs and four extension shelves.
-

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80E-BP Cabinet Group Descriptions (Continued)

ED-7C703-30, G158 Order in addition to G190 to provide an 800-series DSX (*with DSX jumpers*) arranged for five Series 5 DCBs and four extension shelves.

ED-7C703-30, G177 Order in addition to G128 equipped with Feature Package I in addition to G13, G14, G89, G90, or G190 to provide an FMU cable.

ED-7C703-30, G179 Order in addition to G13, G14, G89, G90, or G190 to provide wiring for Teradyne 4TEL Computer-Controlled Diagnostic System *RMU* telephone line test measurement apparatus and line test fanout.

ED-7C703-30, G181 Order in addition to a G190 cabinet assembly to provide a DDM-2000 OC-12 multiplexer shelf assembly and associated wiring. Eight *ST* lightguide connector to *ST* lightguide connector jumpers are provided for DDM-2000 OC-3 connections.

ED-7C703-30, G190 Order this assembly to receive an 80E-BP cabinet, wiring, and apparatus arranged for five Series 5 DCBs, one DDM-2000 OC-12 multiplexer shelf, two DDM-2000 OC-3 multiplexer shelves, and up to four DS1 or DDM-Plus extension shelves using lightguide facilities. In addition to the G190 cabinet assembly, you *must* order/specify the following:

- AC power system per G30, G34, G35, G38, G41 — G46
- Fan unit per G50
- DSX per G155 or G158
- DC power system per G60
- Ringing system per G61
- Up to two DDM-2000 OC-3 Multiplexer shelf per G83
- Up to one DDM-2000 OC-12 Multiplexer shelf per G181
- Lightguide splicing shelf and fiber jumpers per G95, G96, G195, or G196.

Additional cooling fan units per G50 are required as transmission equipment is installed in the cabinet. Order a second G50 when the first extension shelf or DCB is installed in the cabinet. Order a third G50 when a second DCB is installed in the cabinet. Order a fourth G50 when the fourth DCB is installed in the cabinet.

(Continued on next page)

80E-BP Cabinet Group Descriptions (Continued)

- ED-7C703-30, G194 Order (**7 Max.**) in addition to a G89, G90, or G190 cabinet assembly (equipped with G96 or G196) to provide four *ST* lightguide connector to *ST* lightguide connector jumpers for DDM-Plus or DDM-2000 OC-3 lightguide extensions.
-
- ED-7C703-30, G195 Order in addition to a G89, G90, or G190 cabinet assembly (equipped with G83) to provide an LSC2U-024/5 lightguide splice shelf.
-
- ED-7C703-30, G196 Order in addition to a G89, G90, or G190 (equipped with G83) to provide an LST1LP-48ST/2.5 lightguide termination shelf.
-
- ED-7C703-30, G197 Order (**3 Max.**) in addition to a G89, G90, or G190 cabinet assembly to provide *ST* lightguide connector to biconic lightguide connector jumpers for DDM-Plus or DDM-2000 OC-3 lightguide extensions.
-

Batteries and Miscellaneous Equipment

- Introduction** This section provides information on batteries and miscellaneous equipment needed for cabinet maintenance or installation.
-
- 128E Bracket** This bracket is used to accurately locate the mounting inserts and cable openings in the concrete pad and becomes a permanent part of the pad.
Comcode 104439831
-
- Key** Order this item to receive an Allen key-wrench used to unlock/lock the cabinet door.
Comcode 840841324
-
- KS-23619, L3** The Lucent Technologies *Lineage* 2000 VR-Series battery may be ordered in quantities of 12 (string) or individually. To order a string of 12 KS-23619, L3 batteries, specify the equipment code (ED-number) instead of using the individual comcode number or KS-number.
- 12 Battery string:
ED-83242-31, G3
- Individual battery:
Comcode 406020354
- Lucent Technologies battery string cable for KS-23619, L3 (included with G63)
Comcode 846278224
-

(Continued on next page)

Batteries and Miscellaneous Equipment (Continued)

3VB11

This battery is manufactured by Chloride Group Plc. and can be ordered in quantities of eight (string) or individually.

Eight battery string:

Comcode 405890336

Individual battery:

Comcode 405259623

Battery cables may be ordered by kit or by individual cable. Select the appropriate comcode number and description.

CHLORIDE battery string cable kit (included with G62)

Comcode 846278760

CHLORIDE battery string cable

Comcode 846279115

CHLORIDE battery extension cable

Comcode 846279107

CHLORIDE battery cable (barrier) assemblies (quantity of eight)

Comcode 846279149

W2HR

The W2HR bridging/access test cord is 5-feet long and connects to the protectors and allows bridging or monitoring of the pair. This cord can be used with a T-Berd 209A test set to monitor DS1 signals or with other test sets that have a built-in monitor level input impedance of 440 ohms on both tip and ring plus 110-ohm test set impedance. One test cord is shipped with each 80-type cabinet order. Order only if multiple cords or replacement test cords are needed.

Comcode 105329379

(Continued on next page)

Batteries and Miscellaneous Equipment (Continued)

W4DE The W4DE "access" test cord is 5 feet long and used when fault-locating T1 extensions from 80-type cabinets. Connection is made between the signal generator jack of the fault locate test set and the 4C12C protector position. One test cord is shipped with each 80-type cabinet. Order only if multiple cords or replacement cords are needed.
Comcode 105329395

W4DF The W4DF "looping" test cord is 3 feet long and is used to loop the digital line. This cord replaces the 4C12C transmit and receive protector units. [A 262C terminating plug must be inserted in appropriate FL jack on the load distribution unit (LDU).] The W4DF is not included in any cabinet group and must be ordered separately.
Comcode 105414973

216C This tool is used to open the cabinet door.

Lock brackets If additional cabinet security is required, lock brackets are available to secure the electronics and battery compartments. One 2-piece lock bracket is required to secure the upper cabinet (electronics) compartment. Order the upper bracket and hardware as follows:

Lock Bracket 1	Comcode 846633709	1 Required
Lock Bracket 2	Comcode 846633717	1 Required
Bolt, 1/4-20 x .75	Comcode 846680833	4 Required
Washer, Lock, 1/4 in.	Comcode 900329723	4 Required
Hex, Nut, 1/4 in.	Comcode 900329830	4 Required

Two lower lock brackets are required to secure the battery compartment (one per door). Order the lower lock brackets and hardware as follows:

Lock Bracket	Comcode 846633733	2 Required
Bolt, 1/4-20 x .75	Comcode 842717522	8 Required
Washer, Lock, 1/4 in.	Comcode 900329723	8 Required
Hex, Nut, 1/4 in.	Comcode 900329830	8 Required

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Batteries and Miscellaneous Equipment (Continued)

Pull plug (3-3/8 in.) This pull plug is used in the cabinet mounting plates and may be ordered as required.
Comcode 900751850

80E-BP Cabinet Related Documentation

List of 80E cabinet related documentation

The following table lists Lucent Technologies documentation where additional information may be found concerning the 80E cabinet and associated equipment. To order one or more of the following documents, refer to the "About This Document" section of this document.

Document	Title
157-622-010	<i>Lineage® 2000 VR-Series Battery Product Manual</i>
363-205-010	<i>SLC® Series 5 Carrier System Applications and Planning Guide</i>
363-206-100	<i>DDM-1000 User/Service Manual</i>
365-200-106	<i>Small Cross-Section Office Repeater Shelf Description, Installation, and Maintenance</i>
631-600-243	<i>80E-BP Remote Terminal Cabinet General Description and Ordering Information</i>
631-600-244	<i>80E-BP (Bulk Power) Cabinet Installation</i>
631-600-276	<i>80E-Bulk Power (BP) Cabinet Replacement Parts List and Associated Hardware</i>
640-250-257	<i>80E-BP (Bulk Power) Cabinet (Group 90) - Splicing and Equipment Installation</i>
640-250-258	<i>80E-BP (Bulk Power) Cabinet (Group 14) - Splicing and Equipment Installation</i>
640-250-262	<i>80E-BP (Bulk Power) Cabinet (Group 13) - Splicing and Equipment Installation</i>
640-250-263	<i>80E-BP (Bulk Power) Cabinet (Group 89) - Splicing and Equipment Installation</i>
640-250-298	<i>80E-BP (Bulk Power) Cabinet (Group 190) - Splicing and Equipment Installation</i>
915-710-115	<i>SLC Series 5 Carrier System Application Engineering Practice (Issue 2 or higher)</i>
633 WIP 009	<i>80-Type Cabinet-Splicing with 710 Connectors</i>
J1C182AE-1	<i>RT Dual Channel Bank</i>
J1C182BC-1	<i>RT Ring Shelf</i>
ED-1T281-01	<i>Concrete Pad for 80E Cabinet</i>
SD-7C158-01	<i>80E-BP Cabinet Application Schematic</i>

80E (FITL) Cabinet (ED-7C707-30)

Description

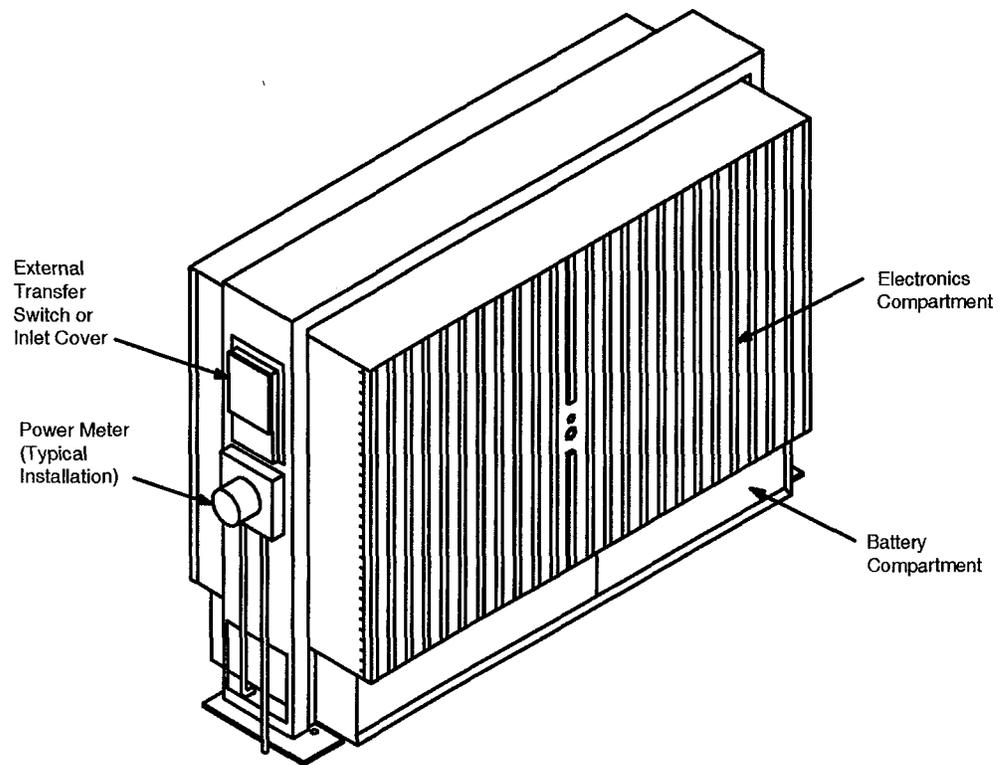
General



NOTE:

This cabinet assembly is not currently available on a standard basis. Please check with your Lucent Technologies Account Executive for availability and special applications.

The 80E (FITL) cabinet, shown in the following figure, is a bulk power cabinet. When configured for maximum capacity, the cabinet can house four *SLC* Series 5 Carrier System DCBs (configured for FTTH), one DDM-1000 multiplexer, two J98725CA-1 SXSS T-repeater shelves, eight J1C182AB-1 optic assembly shelves, two J1C182PB-1 optic power shelves, seven 2B fan units, one FM1-432 fiber apparatus mounting, and one HD1-20 cable clamp bracket assembly. When fully configured, the cabinet can handle a maximum of 768 voice-frequency (VF) lines on fiber feeder. This cabinet is shipped factory assembled and completely prewired.



Description (Continued)

Cabinet powering A bulk power cabinet uses a common –48 V DC power plant (with battery reserve) to power all carrier equipment in the cabinet. The reserve power batteries are placed outside the equipment mounting area and are independent of the carrier equipment configuration. Plug-in protector units are provided for each Series 5 DCB ordered.

The cabinet is equipped, as required, with an AC power panel, 307-type protector blocks, 307- or 800-type DSX tie blocks, and plug-in line protector units for the ultimate carrier system capacity of the cabinet.

Cabinet dimensions and layout

Cabinet dimensions are 106 inches wide, 33 inches deep, and 75 inches tall. The cabinet is divided into two compartments. The upper (electronics) compartment has six bays that can be used to mount electronics and optical equipment, an AC power equipment area, and a splicing area where outside plant cables are supported and grounded. The lower (battery) compartment holds up to 400 ampere-hours of standby batteries.

Series 5 plug-in circuit packs

Plug-in circuit packs required for *SLC* Series 5 Carrier Systems are not provided with the cabinet and must be ordered separately. See Chapter 5 of this document for circuit pack ordering information.

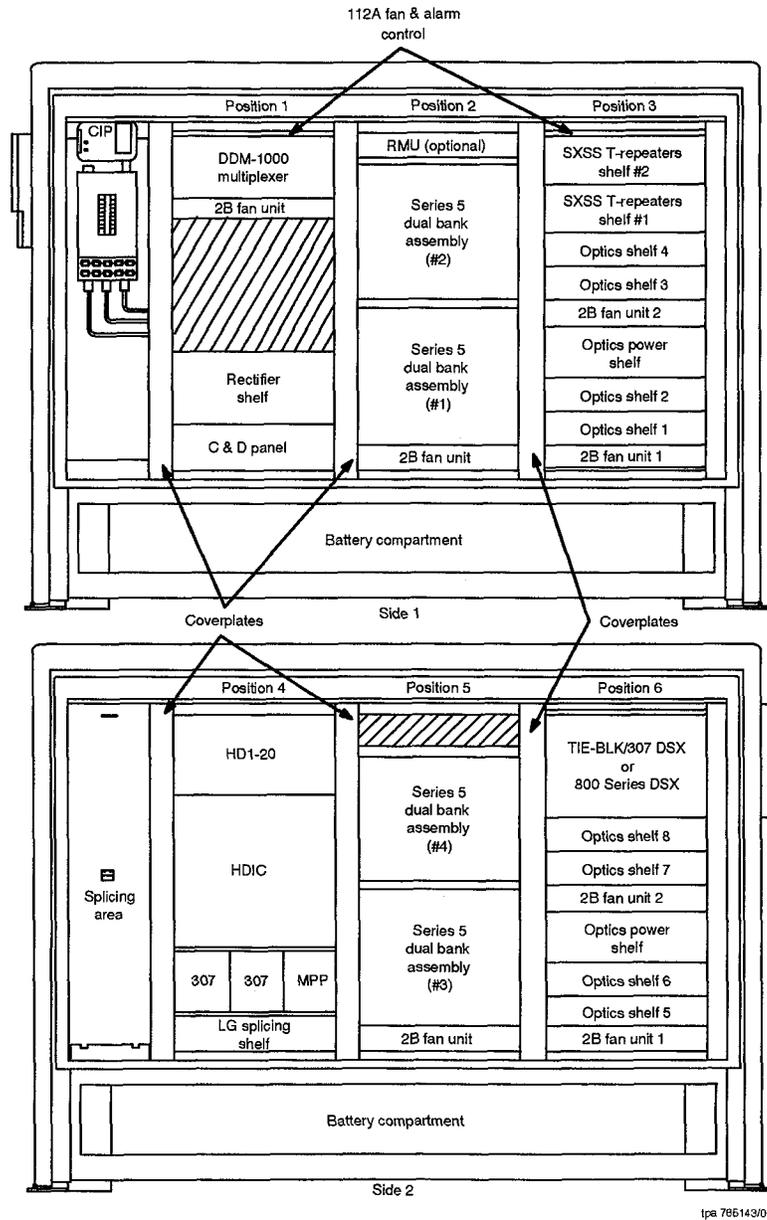
Typical equipment placement in cabinet

The following figure illustrates the typical equipment placement in the cabinet.

(Continued on next page)

Description (Continued)

Typical
 equipment
 placement in
 cabinet
 (continued)



(Continued on next page)

Description (Continued)

**80-type cabinet
toll-free number
for assistance**

For immediate assistance regarding questions on 80-type cabinets, call the following toll-free number, Monday through Friday, between the hours of 8 a. m. and 4 p. m. Central standard time (CST):

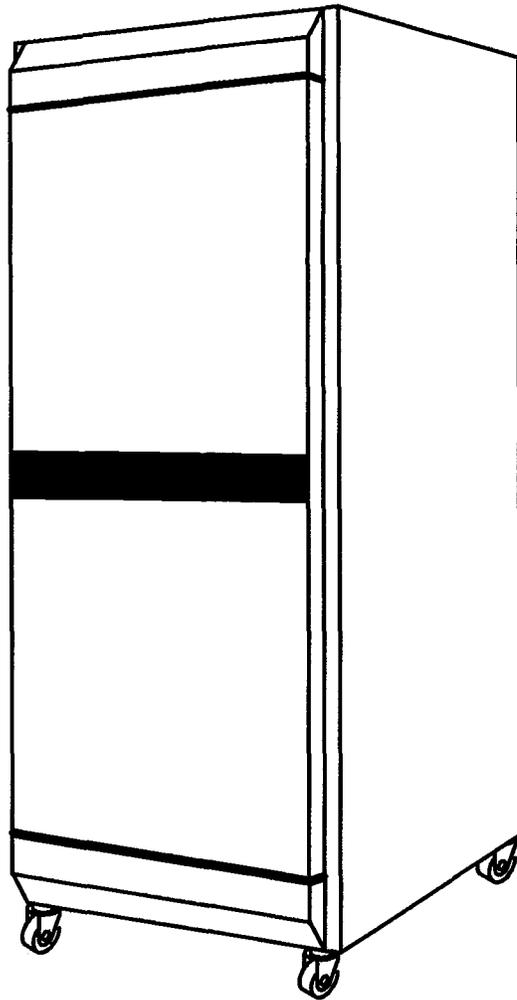
1-800-4CABNET or 1-800-422-2638

90A Cabinet (ED-7C699-30)

Overview

General

The 90A Business Remote Terminal (BRT) cabinet is designed to house Series 5 RT Carrier System dual channel banks, DDM-1000, and DDM-2000 OC-3 multiplexer equipment at a customer's premise. The cabinet may also be configured to mount DS1 extension (repeater) shelves or DDM-Plus shelves. The 90A BRT cabinet has a nominal height of 6-1/2 feet and may be ordered with casters (Group 1), levelers (Group 2), or with earthquake mounting apparatus (Group 3). The following figure illustrates a typical Group 1 cabinet.

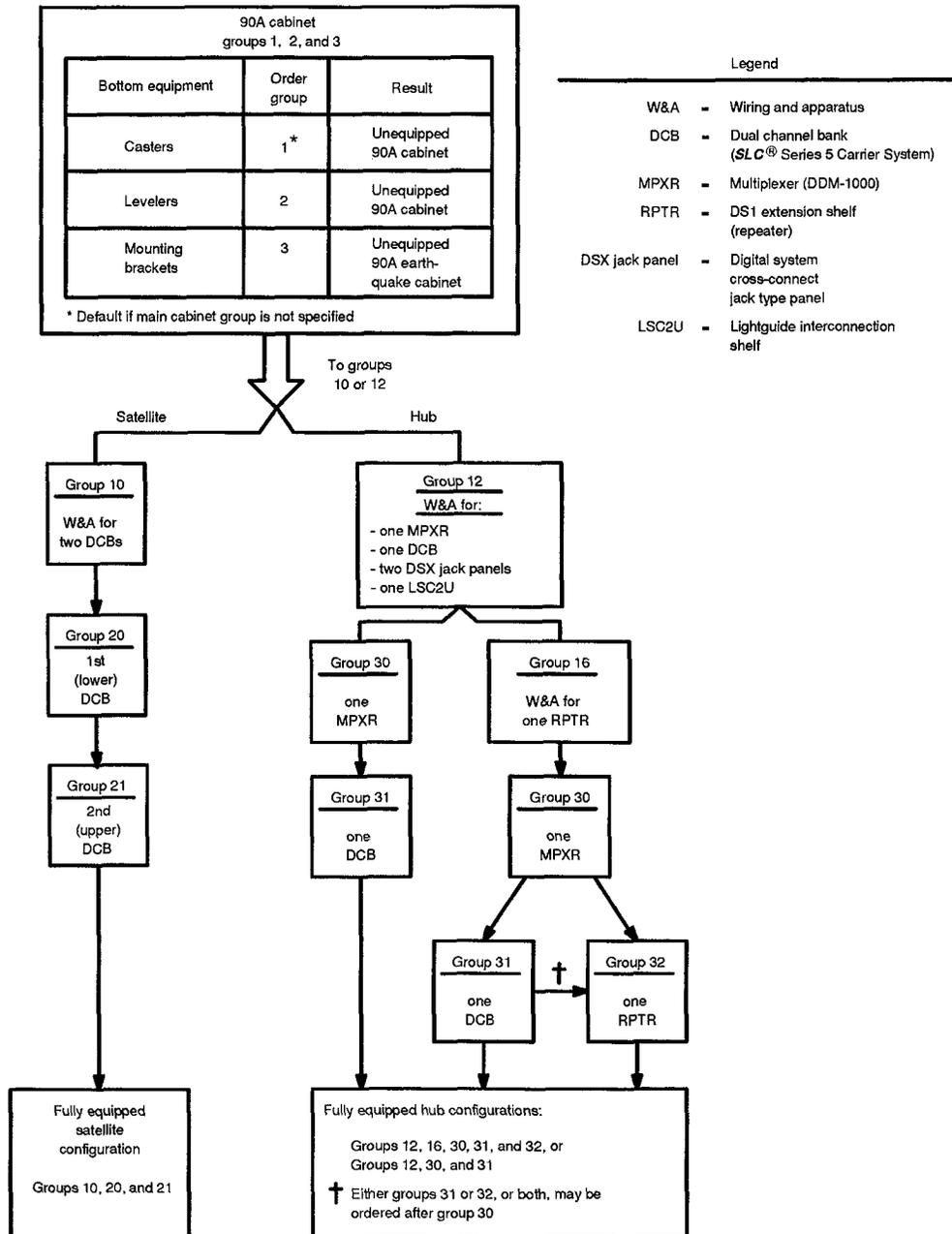


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90A Cabinet (ED-7C699-30) (Continued)

Group ordering sequence

The following figures provide group ordering sequence for equipping a 90A cabinet assembly.



tpa 789021/01

(Continued on next page)

90A Cabinet (ED-7C699-30) (Continued)

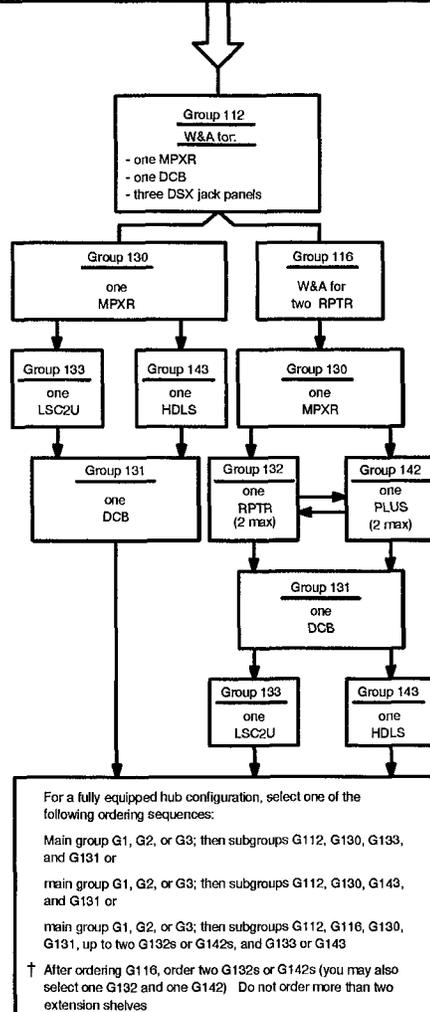
Group ordering sequence (continued)

90A cabinet groups 1, 2, and 3		
Bottom equipment	Order group	Result
Casters	1*	Unequipped 90A cabinet
Levelers	2	Unequipped 90A cabinet
Mounting brackets	3	Unequipped 90A earthquake cabinet

* Default if main cabinet group is not specified

Legend

- W&A = Wiring and apparatus
- DCB = Dual channel bank
(SLC® Series 5 Carrier System)
- MPXR = Multiplexer (DDM-2000)
- RPTR = DS1 extension shelf
(repeater)
- PLUS = DDM - Plus Extension Shelf
- DSX jack panel = Digital system
cross-connect
jack type panel
- LSC2U = Lightguide interconnection
shelf



tpa 789415/01

90A Cabinet (ED-7C699-30) Group Descriptions

Introduction

Order wording and group descriptions contained in this section are arranged in ascending order. Group numbers not shown are to be considered *unassigned* at the time this document was written. Unless otherwise specified, each group listed in this section has a rating of general availability. The figures in the previous section, "Group ordering sequence," provide the group ordering sequence for a fully equipped satellite or hub configuration of the 90A BRT.

Initial orders must specify a G1 (equipped with casters), G2 (equipped with levelers), or G3 (earthquake brackets) cabinet assembly. If not specified, a G1 cabinet assembly will be provided.

ED-7C699-30, G1

Order this cabinet shell to receive an unequipped 90A cabinet with right-hand front and rear doors and casters. The cabinet doors may be rearranged in the field for left-hand operation.

ED-7C699-30, G2

Order this cabinet shell to receive an unequipped 90A cabinet with right-hand front and rear doors and levelers. The cabinet doors may be rearranged in the field for left-hand operation.

ED-7C699-30, G3

Order this cabinet shell to receive an unequipped 90A earthquake cabinet equipped with mounting apparatus.

ED-7C699-30, G10

Order in addition to a G1, G2, or G3 cabinet shell to provide wiring and apparatus required for mounting two Series 5 DCBs.

ED-7C699-30, G12

Order in addition to a G1, G2, or G3 cabinet shell to provide wiring and apparatus required for mounting one DDM-1000 multiplexer and one Series 5 DCB. Includes two DSX-1 jack-type shelf assemblies and one lightguide interconnection shelf (LSC2U).

(Continued on next page)

90A Cabinet (ED-7C699-30) Group Descriptions (Continued)

ED-7C699-30, G16 Order in addition to a G1, G2, or G3 cabinet shell (equipped with G12) to provide wiring and apparatus required for one DS1 extension (repeater) shelf. The addition of this group allows for T1 extension of 28 digital lines up to 6,000 feet without the use of intermediate repeaters. This group is used only in "hub" configurations. (Refer to the first figure in the previous section, "group ordering sequence".)

ED-7C699-30, G20 Order in addition to a G1, G2, or G3 cabinet shell to provide the first (lower) Series 5 DCB and associated equipment. This group includes the following equipment:

- One J1C182AF-1, L3 Series 5 RT DCB
- One J1C182BA-1, L3 power shelf
- One 2C fan unit
- Two 181B apparatus mountings (battery shelves).

Circuit packs for the J1C182AF-1, L3 DCB and J1C182BA-1, L3 power shelf are not supplied and must be ordered separately. See Chapter 5 for RT and power shelf circuit pack ordering information.

ED-7C699-30, G21 Order in addition to a G1, G2, or G3 cabinet shell (equipped with G10 and G20) to provide the second (upper) Series 5 DCB and associated equipment. This group is used in "satellite" cabinet configurations. This group includes the following equipment:

- One J1C182AF-1, L3 Series 5 RT DCB
- One 181B apparatus mountings (battery shelf).

ED-7C699-30, G30 Order in addition to a G1, G2, or G3 cabinet assembly (equipped with G12) to provide a DDM-1000 multiplexer shelf assembly and necessary associated equipment. This group includes the following equipment:

- One J1C182BA-1, L3 power shelf
- One 2C fan unit
- Two 181B apparatus mountings (battery shelves)
- One DDM-1000 multiplexer shelf assembly.

(Continued on next page)

90A Cabinet (ED-7C699-30) Group Descriptions (Continued)

ED-7C699-30, G31 Order in addition to a G1, G2, or G3 cabinet assembly (equipped with G12 and G30) to provide one Series 5 DCB. This group includes the following equipment:

- One J1C182AF-1, L3 Series 5 RT DCB
- One 181B apparatus mounting (battery shelf).

ED-7C699-30, G32 Order in addition to a G1, G2, or G3 cabinet assembly (equipped with G16) to provide one J98725DA-1 DS1 extension (repeater) shelf assembly.

ED-7C699-30, G112 Order in addition to a G1, G2, or G3 cabinet assembly to provide wiring and apparatus for one DDM-2000 OC-3 multiplexer shelf assembly and a Series 5 DCB. This group includes three DSX1 jack-type shelf assemblies.

ED-7C699-30, G116 Order in addition to a G1, G2, or G3 cabinet assembly (equipped with G112) to provide wiring and apparatus for up to two DS1 or DDM-Plus extension shelves.

ED-7C699-30, G130 Order in addition to a G1, G2, or G3 cabinet assembly (equipped with G112) to provide a DDM-2000 OC-3 multiplexer shelf assembly with associated wiring and equipment. This group includes the following equipment:

- One J1C182BA-1, L3 power shelf
- One 2C fan unit
- Three 181B apparatus mounting shelves (battery shelves)
- One DDM-2000 OC-3 multiplexer shelf assembly.

ED-7C699-30, G131 Order in addition to a G1 or G2 cabinet assembly (equipped with G112 and G130) to provide one Series 5 DCB and associated equipment.

- One J1C182AF-1, L3 Series 5 RT DCB
- One 181B apparatus mounting shelf (battery shelf).

(Continued on next page)

90A Cabinet (ED-7C699-30) Group Descriptions (Continued)

ED-7C699-30, G132 Order **(2 Max.)** in addition to a G1, G2, or G3 cabinet assembly (equipped with G116 and G130) to provide one DS1 extension (repeater) shelf.

ED-7C699-30, G133 Order in addition to a G1, G2, or G3 cabinet assembly to provide one lightguide shelf interconnect unit (LSC2U).

ED-7C699-30, G142 Order **(2 Max.)** in addition to a G1, G2, or G3 cabinet assembly (equipped with G116 and G130) to provide one DDM-Plus extension shelf assembly (J-98725DB-1).

ED-7C699-30, G143 Order in addition to a G1, G2, or G3 cabinet assembly to provide one high-density lightwave shelf unit which is capable of terminating 72 *ST*[®] connectors and has 15 storage drums for jumper storage. Each drum can store up to 30 feet of jumper.

Batteries and Miscellaneous Equipment

Introduction This section provides information on batteries and miscellaneous equipment needed for cabinet maintenance or installation.

IR-30 The IR-30 battery is a 12 V DC, 28 ampere-hour constant current, sealed lead acid unit.
Comcode 406382754

IR-30C The IR-30C battery is a 12 V DC, 28 ampere-hour constant voltage, sealed lead acid unit.
Comcode 406456707

Floor Anchor Kit This kit provides mounting brackets and hardware needed to secure a G1 cabinet assembly to the floor.
Comcode 846835429



NOTE:

The installation of this apparatus does not make a G1 cabinet earthquake resistant. If earthquake resistance is required, you must order a G3 cabinet shell.

90A Cabinet Related Documentation

**List of 90A cabinet
related
documentation**

The following table lists Lucent Technologies documentation where additional information may be found concerning the 90A cabinet and associated equipment. To order one or more of the following documents, refer to the "About This Document" section of this document.

Document	Title
363-202-000	<i>SLC®96 Carrier System Ordering Guide</i>
363-205-010	<i>SLC Series 5 Carrier System Applications and Planning Guide</i>
363-206-100	<i>DDM-1000 User/Service Manual</i>
363-206-150	<i>DDM-Plus User/Service Manual</i>
363-206-156	<i>DDM-Plus Equipment and Ordering Guide</i>
365-206-200	<i>DDM-2000 Multiplexer Application, Planning and Ordering Guide</i>
365-206-202	<i>DDM-2000 OC-3 Multiplexer User/Service Manual</i>
365-200-106	<i>Small Cross-Section Office Repeater Shelf Description, Installation, and Maintenance</i>
626-500-115	<i>90-Type Cabinet - Coding Scheme and Ordering Information</i>
640-250-270	<i>90A BRT Cabinet - Description, Installation and Splicing.</i>
640-250-271	<i>90A BRT Cabinet Equipped w/DDM-2000 OC-3 Description, Installation, and Splicing</i>
640-250-272	<i>90A BRT Cabinet - UL Listing - Installation and Safety Guidelines</i>
915-710-115	<i>SLC Series 5 Carrier System Application Engineering Practice (Issue 2 or higher)</i>

Worksheets

Description

**Purpose of
worksheets**

The following worksheets can be used to record RT cabinet specifications or planning and ordering information.

Company Name _____ Company Contact _____
 Company Address _____ Telephone _____

**SLC® Series 5 Carrier System
 Remote Terminal Cabinet Specification,
 Planning, and Ordering Worksheet**

Cabinet Equipment Code **ED-7C** _____ **-30, G** _____ Description _____
 Cabinet Powering/Ringing Subgroups(s) _____ Description _____
 Transmission Equipment Subgroups(s) _____ Description _____
 Multiplexer Equipment Subgroups(s) _____ Description _____
 FDI and/or DSX Equipment Subgroups(s) _____ Description _____
 Repeater Equipment Subgroups(s) _____ Description _____
 Battery Equipment and Cables Subgroups(s) _____ Description _____
 Miscellaneous Equipment Subgroups(s) _____ Description _____

Replacement Parts, Spares, Test Cords, and Batteries

Required Quantity	Comcode or Equipment Code	Description
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

For assistance on 80-types, dial 1-800-4CABINET (1-800-422-2638), Monday through Friday, between 8 a.m. and 4 p.m. Central standard time (CST).

Company Name _____ Company Contact _____
 Company Address _____ Telephone _____

**SLC® Series 5 Carrier System
 Remote Terminal Cabinet Specification,
 Planning, and Ordering Worksheet**

Cabinet Equipment Code ED-7C _____ -30, G _____ Description _____
 Cabinet Powering/Ringing Subgroups(s) _____ Description _____
 Transmission Equipment Subgroups(s) _____ Description _____
 Multiplexer Equipment Subgroups(s) _____ Description _____
 FDI and/or DSX Equipment Subgroups(s) _____ Description _____
 Repeater Equipment Subgroups(s) _____ Description _____
 Battery Equipment and Cables Subgroups(s) _____ Description _____
 Miscellaneous Equipment Subgroups(s) _____ Description _____

Replacement Parts, Spares, Test Cords, and Batteries

Required Quantity	Comcode or Equipment Code	Description
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Company Name _____ Company Contact _____
 Company Address _____ Telephone _____

**SLC® Series 5 Carrier System
 Remote Terminal Cabinet Specification,
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 Multiplexer Equipment Subgroups(s) _____ Description _____
 FDI and/or DSX Equipment Subgroups(s) _____ Description _____
 Repeater Equipment Subgroups(s) _____ Description _____
 Battery Equipment and Cables Subgroups(s) _____ Description _____
 Miscellaneous Equipment Subgroups(s) _____ Description _____

Replacement Parts, Spares, Test Cords, and Batteries

Required Quantity	Comcode or Equipment Code	Description
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

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**SLC® Series 5 Carrier System
 Remote Terminal Cabinet Specification,
 Planning, and Ordering Worksheet**

Cabinet Equipment Code ED-7C _____ -30, G _____ Description _____
 Cabinet Powering/Ringing Subgroups(s) _____ Description _____
 Transmission Equipment Subgroups(s) _____ Description _____
 Multiplexer Equipment Subgroups(s) _____ Description _____
 FDI and/or DSX Equipment Subgroups(s) _____ Description _____
 Repeater Equipment Subgroups(s) _____ Description _____
 Battery Equipment and Cables Subgroups(s) _____ Description _____
 Miscellaneous Equipment Subgroups(s) _____ Description _____

Replacement Parts, Spares, Test Cords, and Batteries

Required Quantity	Comcode or Equipment Code	Description
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

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Purpose

Overview

Introduction

The pair gain test controller (PGTC) and the extended test controller (XTC) are used to test circuits installed in *SLC*[®]96 and *SLC* Series 5 Carrier Systems. The PGTC is used to test only locally switched circuits. The XTC is used to test both locally switched and special service circuits. Centralized operations and provisioning (COP) is a special arrangement for the XTC which allows the customer to administer and provision Series 5 carrier special service circuits from a personal computer (PC).

The information in this chapter is divided into three subsections as follows:

- Pair Gain Test Controller
 - Extended Test Controller
 - Centralized Operations and Provisioning.
-

Pair Gain Test Controller

Overview

General

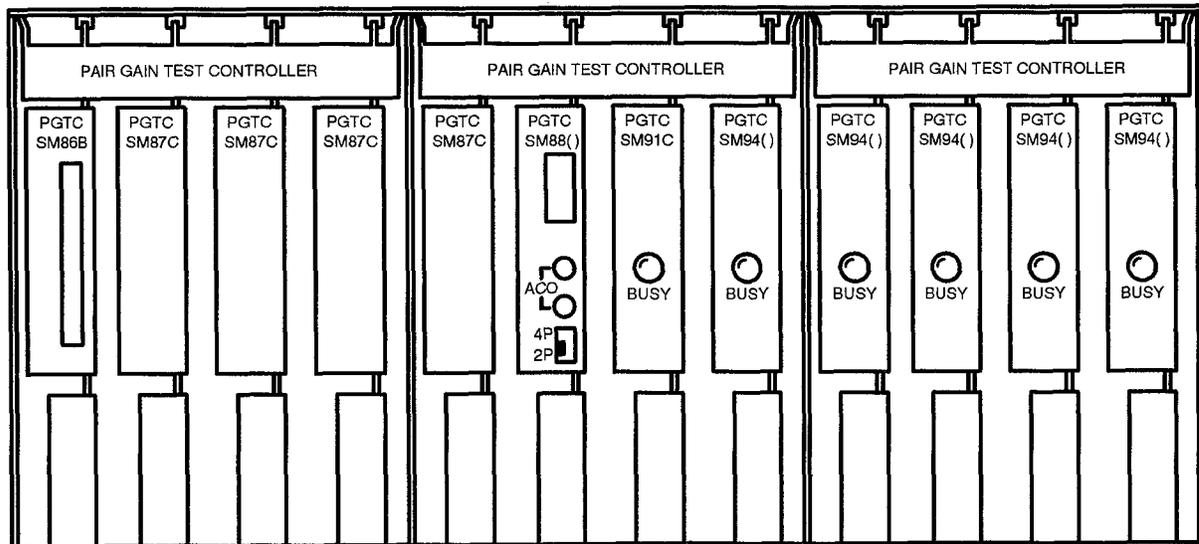


NOTE:

This section contains ordering information for PGTC equipment needed in a central office which presently does not have a PGTC. To upgrade an existing PGTC for use with *SLC* Series 5 Carrier Systems, only an SM88D control unit is required. The SM88D replaces the SM88, SM88B, or SM88C control unit in an existing PGTC control shelf.

The PGTC connects test trunks from the repair service bureau (RSB) to a subscriber channel unit in a central office terminal (COT) channel bank and (by the use of a DC test pair) to the subscriber line beyond the remote terminal (RT). The PGTC does not test special service channel units. For testing special service units, refer to the XTC tab of this chapter.

The PGTC is placed in a central office with *SLC* Series 5 Carrier System dual channel banks. The control and expansion shelves are designed to be rack mounted in a 23-inch frame. The PGTC can interface up to 92 test trunks (12 per control shelf and 20 per expansion shelf). The following figure illustrates the typical circuit pack placement in a PGTC control shelf.

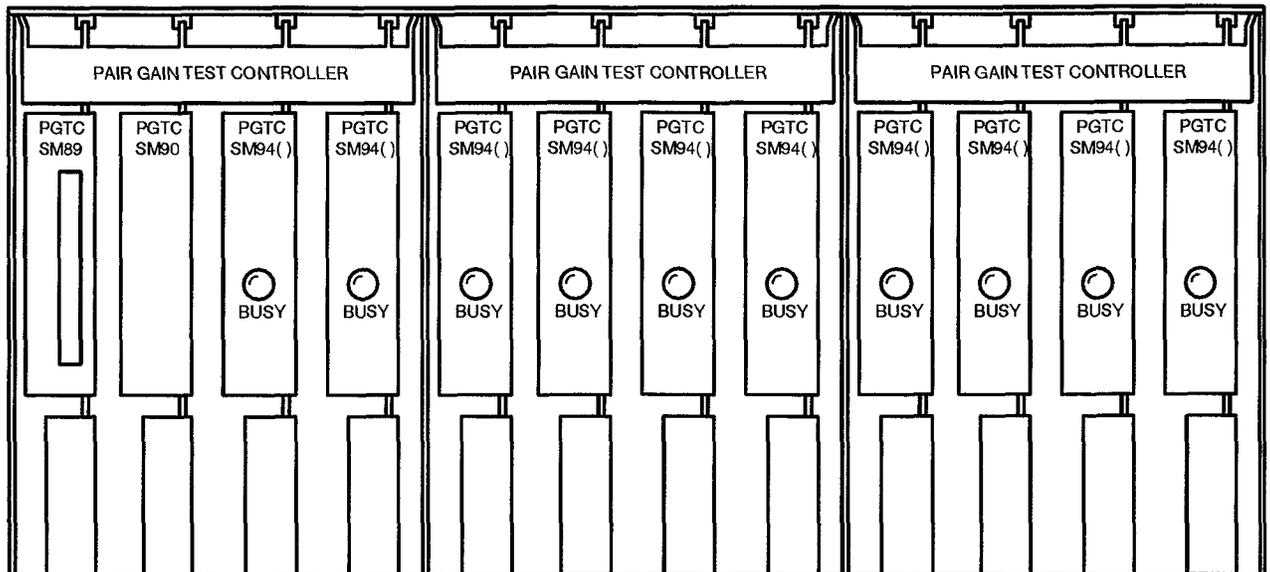


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Overview (Continued)

General (continued)

The following figure illustrates the typical circuit pack placement in a typical PGTC expansion shelf.



The PGTC can be used with a *SLC* Series 5 Carrier System arranged for Feature Package A (FPA) (rated DA), Feature Package C (FPC), or Feature Package D (FPD). For the PGTC to test FPC and FPD equipped systems, the COT dual channel bank (DCB) must be equipped with an AUB2B channel test unit (CTU). The RT DCB must be equipped with an AUB22 or AUB25 CTU for FPC and an AUB25 CTU for FPD.

The PGTC will interface between the test trunks serving a local test desk (LTD), and it is compatible with all testing features of the LTD, test cabinet, and automated testing arrangements. Most LTDs and test cabinets are equipped with all of the testing keys required for testing through the PGTC. Locations that do not have a functional +STA key (+116 volts) on the LTD or test cabinet must have a +STA key and the associated circuitry installed for testing through the PGTC. There must also be a fuse panel available that meets the requirements of T-97760-30. No additional hardware at the RT is required for drop testing, and the PGTC does not affect the present capability to test loops over 3000 ohms.

PGTC Equipment Descriptions and Ordering Information

General

Guidelines for selecting a shelf arrangement (and circuit packs for each shelf) are provided in the following tables and equipment descriptions.

The equipment code information in this section is listed in alphanumeric order. Unless otherwise specified, all equipment has a rating of general availability.

Equipment/ quantities required when working with MLT

The following table covers equipment and quantities required when the PGTC is required to work with a mechanized loop testing system (MLT).

Order Wording	Description	Minimum Requirement	Maximum Requirement
J1C142A-1, L1	PGTC Control Shelf	1	1
J1C142A1, L2	PGTC Expansion Shelf	0	4
SM86B	Control Shelf Power Unit	1	1
SM87C	Tester Unit	2	4
SM88D	Control Unit	1	1
SM89	PGTC Expansion Power Unit	0	4
SM90	PGTC Fan-Out Ext. Unit	0	4
SM91C	Dedicated Trunk Unit	1	1
SM94C	PGTC Trunk Unit	0	45

(Continued on next page)

PGTC Equipment Descriptions and Ordering Information (Continued)

**Equipment/
quantities
required when
working with
LTD or test cabinet**

The following table covers equipment and quantities required when the PGTC is required to work with an LTD or test cabinet.

Order Wording	Description	Minimum Requirement	Maximum Requirement
J1C142A-1, L1	PGTC Control Shelf	1	1
J1C142A1, L2	PGTC Exp. Shelf	0	4
SM86B	Control Shelf Pwr. Unit	1	1
SM87C	Tester Unit	2	4
SM88D	Control Unit	1	1
SM89	PGTC Exp. Pwr. Unit	0	4
SM90	PGTC Fan-Out Ext. Unit	0	4
SM94C	PGTC Trunk Unit	1	46

J1C142A1, L1

Order this item to receive a PGTC control shelf.

Comcode 600209498

Common Language* CLEI code S9TC100A

(Continued on next page)

* COMMON LANGUAGE is a registered trademark and CLEI, CLLI, CLCI, and CLFI are trademarks of Bell Communications Research, Inc.

PGTC Equipment Descriptions and Ordering Information (Continued)

J1C142A1, L2



NOTE:

When working with mechanized loop testing (MLT) and there are more than 10 nondedicated trunks, one J1C142A1, L2, one SM89, and one SM90 are required for each additional group of 20 trunks, up to a total of 80 additional trunks.

When working with an LTD or a test cabinet and there are more than 12 nondedicated trunks, then one J1C142A1, L2, one SM89, and one SM90 are required for each additional group of 20 trunks, up to a total of 80 additional trunks.

Order **(4 Max.)** this item to receive a PGTC expansion shelf.

Comcode 600209506

CLEI code S9TC200A

SM86B

Order this circuit pack to receive a control shelf power unit. The SM86B generates the following DC voltages from a signal grade -48 V DC input: +5, +12, -12, +48, -48, and +130.

Comcode 103759445

CLEI code S9TP4D1

SM87C

Order a minimum of two SM87C circuit packs **(4 Max.)** when equipping a PGTC control shelf. The SM87C tester unit contains automatic testing circuitry (required for testing channel units). The SM87C is required when interfacing with a 5ESS® switch. The SM87C has a maximum loop resistance of 630 ohms and performs the following functions:

- Interfaces the test trunk using the trunk card
- Interfaces with the 8 bit data bus from the SM88 controller
- Contains relays that apply test signals and ringing voltages to channel units under test
- Contains "C" message filter
- Contains loop detectors
- Contains comparators to evaluate the test response.

Comcode 104023775

CLEI code S9TP2C4

(Continued on next page)

PGTC Equipment Descriptions and Ordering Information (Continued)

SM88D

Order this circuit pack to provide a control unit circuit pack that contains a microprocessor which controls all functions of the PGTC. The following functions are provided by the SM88D:

- Provides all interconnect commands
- Provides maintenance displays
- Contains alarm cutoff switch
- Contains a sweep oscillator for transmission loss tests
- Selects the tester unit (SM87C) that the trunk unit (SM94C) will be connected to.

Comcode 105701981
CLEI code S9TP2B5AXX

SM89



NOTE:

When working with MLT and there are more than 10 nondedicated trunks, one J1C142A1, L2, one SM89, and one SM90 are required per each additional group of 20 trunks, up to a total of 80 additional trunks.

When working with an LTD or a test cabinet and there are more than 12 nondedicated trunks, one J1C142A1, L2, one SM89, and one SM90 are required for each additional group of 20 trunks, up to a total of 80 additional trunks.

Order **(4 Max.)** this circuit pack to receive an expansion shelf power unit. The SM89 provides the following DC voltages from a -48 V DC signal grade input: +5, +12, and -12.

Comcode 103202933
CLEI code S9TP500

(Continued on next page)

PGTC Equipment Descriptions and Ordering Information (Continued)

SM90



NOTE:

When working with MLT and there are more than 10 nondedicated trunks, one J1C142A1, L2, one SM89, and one SM90 are required per each additional group of 20 trunks, up to a total of 80 additional trunks.

When working with an LTD or a test cabinet and there are more than 12 nondedicated trunks, one J1C142A1, L2, one SM89, and one SM90 are required for each additional group of 20 trunks, up to a total of 80 additional trunks.

Order **(4 Max.)** this circuit pack to provide a fan-out extender unit used for buffering the common control signal between the control shelf and the expansion shelf.

Comcode 103202941

CLEI code S9TP300

SM91C

Order this circuit pack to receive a trunk unit which provides dedicated access of two test trunks to any two tester units (SM87Cs). The SM91C is placed in position 07 of the control shelf. The SM91C contains tone detectors and busy relays [for both 60 interruptions-per-minute (IPM) and 120 IPM].

Comcode 103801809

CLEI code S9TP6B2

SM94C

Order **(45 Max.)** this circuit pack to receive a trunk unit which provides switching of either of the two test trunks to any four tester units (SM87Cs). Order one SM94C per two nondedicated test trunks, six per control shelf, and up to ten per expansion shelf.

Comcode 103799037

CLEI code S9TP8B2AXX

Related Documentation

List of PGTC related documentation

The following table lists Lucent Technologies documentation where additional information may be found concerning the PGTC. To order one or more of the following documents, refer to the "About This Document" section of this document.

Document	Title
363-202-300	<i>SLC[®]96 Carrier System Pair Gain Test Controller Description and Installation</i>
363-205-010	<i>SLC Series 5 Carrier System Applications and Planning Guide</i>
662-505-507	<i>Test Desk Procedures</i>
801-440-001	<i>Pair Gain Test Controller (J1C142)</i>
J1C142A-1	<i>Pair Gain Test Controller</i>
ED-97920-30	<i>PGTC PWB (Control Shelf)</i>
ED-97920-31	<i>PGTC PWB (Expansion Shelf)</i>
SD-97760-01	<i>PGTC Schematic Drawing</i>

Extended Test Controller

Overview

General

The Series 5 FPC and FPD Carrier Systems provide the customer with significantly more testing and diagnostic features than are provided by *SLC 96* carrier or Series 5 FPA. To utilize this enhanced testing capability, an XTC is required instead of a PGTC. The XTC provides all of the testing features of the PGTC as well as the capability to use new testing features provided by switched access remote test system (SARTS) and mechanized loop testing system - 2 (MLT-2), specifically for Series 5 FPC and FPD Carrier Systems.

Use of the XTC is not limited to a Series 5 FPC or FPD equipped system. When the XTC is used instead of a PGTC, the XTC becomes the office testing resource for all PGTC compatible digital loop carrier systems. The *SLC 96* Carrier System, Series 5 FPA, and Series 5 FPB equipped systems may be tested by the XTC; however, none of the enhanced SARTS or MLT-2 testing capabilities are available for these systems.

MLT-1 may also be used to test digital loop carrier systems via the XTC. However, when used with MLT-1, only the PGTC capability of the XTC may be used since the MLT-1 does not provide any of the enhanced testing capabilities for FPC and FPD carrier systems that are provided by MLT-2.

Local test desks and test cabinets that have a +STA key (+116 volts) may also be used to test digital loop carrier systems via the XTC. The flexibility of test desks and cabinets allows them to use the full MLT testing capability of the XTC, including the enhanced MLT-2 testing features provided for FPC and FPD carrier systems.

The XTC may be connected to a PC to allow administration and provisioning of certain Series 5 special service channel units from the PC. This feature is entitled "COP." Ordering information for COP equipment is provided later in this chapter. For a detailed description of COP, see Document 363-205-103.

Associated SARTS Application Software Generic Release and Remote Measure Systems Release

Description

The switched access remote test system (SARTS) supports testing through the *SLC 96* carrier system's XTC interface. This is accomplished using two of SARTS's remote measurement systems (RTS-5A and RMS-M/M-DRIVER). The section, "SARTS General Description," (Document 666-610-100) provides a description of the interface between the SARTS central controller, its remote measurement systems, and the XTC interface. Engineering requirements are provided in the RTS-5A and RMS-M Engineering documentation (824-102-117, Iss. 5 and 824-102-133, Issue 4 respectively).



NOTE:

The SARTS/*SLC 96* carrier system testing capability is an optional feature of SARTS (software feature loading). The remote measurement systems can be upgraded (hardware/firmware), but the optional SARTS central controller software must also be purchased to take full advantage of testing through the XTC interface.

The SARTS 2PC3A software release (late 1980's) was the first SARTS central controller software release supporting testing through the XTC interface. The RTS-5A was the first remote measurement system that was enhanced to test through the *SLC 96* carrier system XTC interface. With the introduction of SARTS 2PC3 GI-7.0 software release (1992) the RMS-M/M-DRIVER measurement system was also enhanced to support the XTC interface. Release 5 or later of the RMS-M and the M-DRIVER is required.

RTS-5A — XTC interface

The RTS-5A(s) that interface with the XTC must be equipped with a data link module (DLM) unit per J1P033BA, L1, and L2. If the RTS-5A is presently used to test circuits accessible via digital cross-connect systems (DCSs), a DLM will already exist, and only an additional data link interface (DLI) circuit pack must be provided (J1P033BA, L3).

(Continued on next page)

Associated SARTS Application Software Generic Release and Remote Measure Systems Release (Continued)

RTS-5A — XTC interface (continued)

The SARTS application provides testing capability for both voice-frequency (VF) and digital data system (DDS) services on FPC carrier systems. The basic RTS-5A is equipped for testing VF circuits; however, it might not be equipped for testing DDS circuits (optional). If DS0A testing capacity is desired, the RTS-5A must be equipped with the following:

- Configuration 1 enhancement testing module (J1P033AM, L1, L2, L10, and L12)
- DDS clock terminator circuit pack for the RTS-5A controller (J1P033AE, L14)
- Crosspoint, long-term measurement, and digital entry circuit packs for each remote test port unit of the RTS-5A (J1P033AF, L5).

When adding a DLM shelf or enhancement shelves to an RTS-5A, it is mandatory that they be ordered by the standard bay lists to assure receipt of necessary auxiliary equipment, including cables, bridging adapters, buffers, and associated remote test port circuit packs. Even when RTS-5As are equipped with DLM or enhancement shelves, additional DLIs or DDS testing circuit packs may be ordered per the bay lists. Regional engineers have the necessary J-specification drawings to order this equipment and normally are familiar with the procedures required for ordering DLM/DLI and enhancement equipment.

In addition to the RTS-5A equipment, one to five SARTS metallic interface units (MIUs) are also required to provide the metallic interface between the XTC and the RTS-5A. Each MIU is composed of a shelf and wiring (J1P033BE, L1) and a metallic interface circuit (J1P033BE, L2). One MIU is required per any two extended test unit (XTUs) for up to a maximum of five MIUs. It is recommended that the MIUs be installed in the same framework as the XTC equipment. Other options are available for the MIU but are not required for interfacing the RTS-5A to the XTC. The MIU is described in customer information release (CIR) 666-099-007 and additional ordering information, including associated IR cabling, is provided in PDP-8601-667-0001.

(Continued on next page)

Associated SARTS Application Software Generic Release and Remote Measure Systems Release (Continued)

RMS-M/M- DRIVER — *SLC* Series 5 Carrier System interface

Release 5 of the RMS-M includes the ability to access voiceband circuits in a *SLC* Series 5 Carrier System. Test access to a *SLC* Series 5 Carrier System circuit is provided by the XTC. For its interface to *SLC* Series 5 Carrier System, the RMS-M uses a data communications link for control. For the test access link, the test access paths (TAPs) are wired into the SMAS network using the metallic access interface unit (MIU). Access to the *SLC* Series 5 Carrier System is provided by RMS-M List 14 (test interface to *SLC* Series 5).

The RMS-M communicates with the XTC over a 1200 baud asynchronous data link using the same protocol used between the RTS-5A and the XTC. The maximum cable length between the RMS-M metallic test unit (MTU) and the XTC is 100 feet (30.48m). The XTC provides metallic test access to Series 5 circuits through TAPs. Each TAP consists of 4 pairs of wire, which allows for full splitting access of 4-wire circuit. Up to ten TAPs can be provided by the XTC.

The RMS-M can access circuits at either the COT or the RT. The RMS-M uses the metallic bypass pair (MBP) to perform drop-side testing at the RT. The MBP provides metallic access to either a 2-wire circuit or one pair at a time of a 4-wire circuit.

In addition to the RMS-M equipment, an MIU is also required to provide the metallic interface between the XTC and the RMS-M. Each MIU is composed of a shelf and wiring (J1P033BE, L1) and a metallic interface circuit (J1P033BE, L2). The MIU is described in customer information release (CIR) 666-099-007, and additional ordering information, including associated IR cabling, is provided in PDP-8601-667-0001.

(Continued on next page)

Associated SARTS Application Software Generic Release and Remote Measure Systems Release (Continued)

RMS-M/M- DRIVER — SLC Series 5 Carrier System interface (continued)

The RMS-M with XTC and *SLC* Series 5 carrier system provides the following capabilities for testing special services circuits.

- Circuit Test Access:
 - Monitoring access (all voiceband special services circuits)
 - Full-splitting metallic access at *SLC* Series 5 Carrier System central office terminal (COT) [Series 5 *E SPOTS*[®] channel units and 4-wire voice frequency channel units]
 - Full-splitting bit-stream access at COT (all voiceband special services circuits).
 - Metallic access to circuit drop (towards loop) at *SLC* Series 5 RT [Series 5 plain old telephone service (POTS), 4-wire voice frequency channel units, and office channel unit (OCU) dataport channel units]
- Go/No Go Channel Unit Diagnostics using SARTS G22 command (*E SPOTS* channel units, 4-wire VF)
- Channel Status Information (special, POTS, DCU, installed, and provisioned)
- System Status Information (bank and carrier line major alarms).

The RMS-M with XTC and *SLC* Series 5 Carrier System using RT drop testing with metallic bypass pair (MBP) provides the following capabilities for testing special services circuits:

- Shared access with POTS testing remote
 - 2-Wire and 4-Wire access - One pair at a time
 - Single direction testing - Towards loop
 - Remote loop test (RLT) SARTS macro command
 - DC multimeter tests for fault isolation (i.e., resistance, voltage, and capacitance tests)
 - Bypass pair integrity check.
-

Associated MLT Software and Firmware

MLT-2 capability application

The MLT-2 capability is obtained by applying the following software and firmware packages:

- For the LMOS (loop maintenance operation system) host computer, use software Generic 4.
 - For the MLT front end computer, use LMOS software Generic 5 and MLT software Generic 5.
 - For the MLT-2 LTS (loop test system), use firmware, Issue 6.
-

XTC Shelf Arrangements

Capacity

The XTC control shelf serves up to 120 FPC or FPD Series 5 Carrier Systems. The L2 and L3 XTC expansion shelves each serve an additional 120 (FPC or FPD) systems. The XTC control shelf equipped with four tester units will serve up to a total of 450 *SLC* 96 or Series 5 FPA Carrier Systems in any combination. The actual maximum combination of Series 5 FPC or FPD carrier systems and *SLC* 96 Carrier Systems and/or Series 5 FPA carrier systems that can be tested by a given quantity of tester units is covered in CIR 363-099-039TD, Issue 1.

Configurations

The XTC consists of a control shelf (always required), 0 to 2 XTC expansion shelves (as required), 0 to 5 MIU SARTS units (as required), and one of the following PGTC configurations:

- PGTC control shelf (with no PGTC expansion shelves)
- PGTC control shelf with 1, 2 or 3 PGTC expansion shelves
- 1, 2, 3 or 4 PGTC expansion shelves (with no PGTC control shelf).

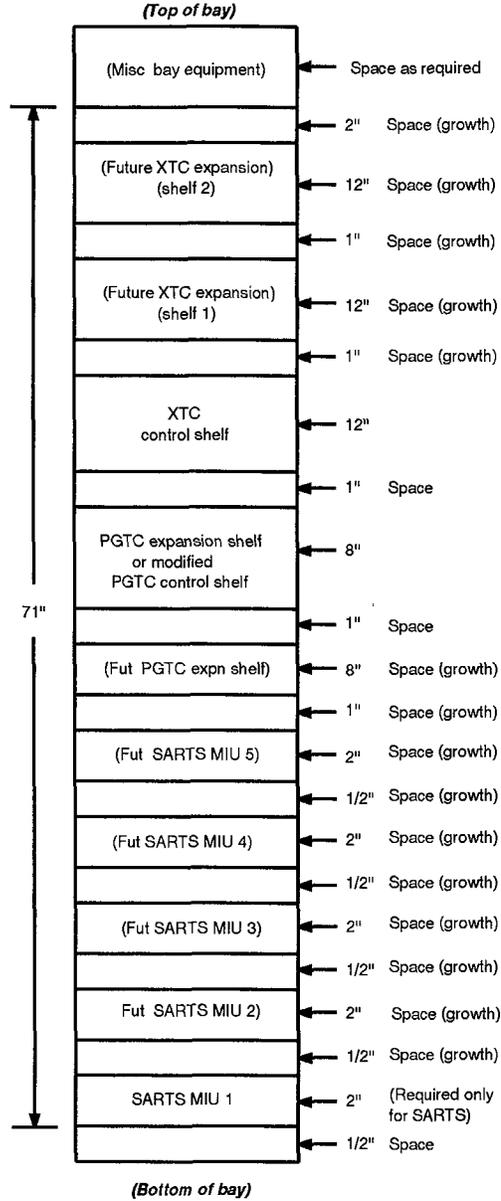
Configuration 3 is recommended. However, configuration 1 or 2 will apply when an existing PGTC control shelf in a wire center can be modified and cabled to form part of the XTC. (For modification instructions, see "Modification of Existing PGTC Shelves.")

All shelves should be installed in the same 23-inch bay framework. The following figure illustrates the preferred bay layout for the XTC and its associated equipment. For a detailed drawing, refer to ED-7C675-30.

(Continued on next page)

XTC Shelf Arrangements (Continued)

Configurations (continued)



tpa 849997/01

Modification of Existing PGTC Shelves

Introduction

If it is determined that existing PGTC shelves will be reused with the XTC, certain modifications must be made in the existing shelves and associated interconnect wiring.

Modify an existing PGTC Control Shelf (J1C142A-1, L1)

To modify a J1C142A-1, L1 control shelf for use with the XTC:

- Order and field install one J1C142A-1, L3 modification material for each control shelf (consists of labels and a terminal strip assembly).
 - Restamp *CLEI* code to read **S9TC130A**.
 - Remove the SM88() unit and replace all SM87() tester units with SM593 units.
 - Replace the SM86/SM86B power unit with a SM89 power unit.
-

Modify an existing PGTC Expansion Shelf (J1C142A-1, L2)

To modify a J1C142A-1, L2 for use with the XTC:

- Order and field install one J1C142A-1, L4 modification material for each expansion shelf (consists of labels and a capacitor assembly).
 - Restamp *CLEI* code to read **S9TC230A**.
-

Modify interconnect wiring

Considerable wiring changes are required, including removal and rearrangement of some existing wiring and the addition of new wiring. See T-97760-30 and T-7C127-31 for details of wiring changes required (SD-97760-01, Issue 4B and SD-7C127-01, Issue 6M or higher).

Shelf Arrangement and CP Selection Guidelines

Equipment for maintenance center tester (non-SARTS)

Guidelines for selecting the shelf arrangement and the circuit packs for each shelf are provided in the following tables. The following table covers equipment and quantities required when XTC testing of *SLC 96* and/or Series 5 Carrier Systems is performed only by a maintenance center (MC) tester (non-SARTS).

Unless otherwise specified, each item in this section has a rating of general availability. The equipment described in this section is arranged in alphanumeric order.

Order Wording	Description	Minimum Requirement	Maximum Requirement
J1C182XA1, L1	XTC Control Shelf	1	1
J1C182XA1, L2	XTC Exp. Shelf	0	1
J1C182XA1, L3	XTC Exp. Shelf	0	1
J1C142A1, L2	PGTC Exp. Shelf	0	4
J1C142A1, L4	PGTC Exp. Mod. Kit	0	4
AUB60	XPCU	1	3
AUB62	XADU	1	1
AUB66	XFOU	1	30
AUB67	XTUC	2	4
AUB68	XTUB	2	4
AUB69	XCCU	1	1
MC97745A1	XTUD	2	4
MC97761A1	XCU	1	1
SM89	PGTC Exp. Pwr. Unit	0	4
SM90	PGTC Fan-Out Ext. Unit	0	4
SM94C	PGTC Trunk Unit	0	40
SM593	Circuit Enabler Unit	0	4

(Continued on next page)

Shelf Arrangement and CP Selection Guidelines (Continued)

Equipment for
 MC (non-SARTS)
 or SSC (SARTS)
 tester

The following table covers equipment and quantities required for XTC testing of Series 5 Carrier Systems that can be performed by a MC or special service center [(SSC) where SARTS testers are available for testing].

Order Wording	Description	Minimum Requirement	Maximum Requirement
J1C182XA1, L1	XTC Control Shelf	1	1
J1C182XA1, L2	XTC Exp. Shelf	0	1
J1C182XA1, L3	XTC Exp. Shelf	0	1
J1C142A1, L2	PGTC Exp. Shelf	0	4
J1C142A1, L4	PGTC Exp. Mod. Kit	0	4
AUB60	XPCU	1	3
AUB62	XADU	1	1
AUB63B	XDLU	1	2
AUB66	XFOU	1	30
AUB67	XTUC	2	10
AUB68	XTUB	2	10
AUB69	XCCU	1	1
MC97745A1	XTUD	2	10
MC97761A1	XCU	1	1
SM89	PGTC Exp. Pwr. Unit	0	4
SM90	PGTC Fan-Out Ext. Unit	0	4
SM94C	PGTC Trunk Unit	0	40
SM593	Circuit Enabler Unit	0	4

Equipment Description and Ordering Information

Introduction

This section contains an alphanumeric listing and a brief description of the equipment required for the XTC. The tables in the previous section provide minimum and maximum quantities of XTC equipment by configuration. Unless otherwise specified, the equipment listed in this section has a rating of general availability.

J1C142A1, L3

Order this assembly to provide the materials needed to modify a J1C142A-1, L1 PGTC control shelf so that it may be used with the XTC.
Comcode 601101066

J1C142A1, L4

Order this assembly to provide materials needed to modify a J1C142A-1, L2 PGTC expansion shelf so that it may be used with the XTC.
Comcode 601101074

J1C182XA1, L1

Order this item to receive an XTC control shelf. The control shelf provides common control and test functions for up to 60 *SLC* Series 5 Carrier System DCBs equipped with FPC or FPD. The control shelf should be ordered with its full compliment of four tester units (with each tester unit consisting of one each AUB68, AUB67, and MC97745A1) except for installations where there is a combined total of less than 40 *SLC* 96 Carrier System and/or Series 5 carrier systems (FPA, FPC, or FPD). For less than 40 systems, two tester units will be sufficient.
Comcode 601067259
CLEI code 5SMX100A

J1C182XA1, L2

Order this item to provide an extension shelf designed to house a maximum of 25 circuit packs. The baffle assembly at the bottom of the expansion shelf contains four TEST pin jacks, two 0.5 A and three 5 A fuses, and a red incandescent POWER FAIL indicator.
Comcode 601124811
CLEI code 5SMX200A

(Continued on next page)

Equipment Description and Ordering Information (Continued)

J1C182XA1, L3 Order this item to provide an extension shelf designed to house a maximum of 19 circuit packs. The baffle assembly at the bottom of the expansion shelf contains four TEST pin jacks, two 0.5A and three 5A fuses, and a red incandescent POWER FAIL indicator.
Comcode 601211394
CLEI code 5SMX300A

SM593 Order **(4 Max.)** this circuit pack to receive a circuit enabler unit (CEU). The SM593 is required if a PGTC control shelf already exists and is to be modified for use with the XTC (otherwise not required). Insert the SM593 into the PGTC control shelf in the slots normally occupied by the SM87() tester units. Refer to the page X for additional instructions for converting a PGTC control shelf for use with the XTC.
Comcode 104199971
CLEI code 5SXTD00AXX

SM89 Order **(4 Max.)** this circuit pack to receive a power unit used in a J1C142A1, L2 or L4 PGTC expansion shelf. One SM89 and one SM90 are required for each group of 20 nondedicated trunks, up to a total of 80 trunks.
Comcode 103202933
CLEI code S9TP500AAA

SM90 Order **(4 Max.)** this circuit pack to receive a fan-out extender unit used in a J1C142A1, L2 or L4 PGTC expansion shelf. One SM89 and one SM90 are required for each group of 20 nondedicated trunks, up to a total of 80 trunks.
Comcode 103202941
CLEI code S9TP300AAA

(Continued on next page)

Equipment Description and Ordering Information (Continued)

AUB60 Order this circuit pack to receive an XTC power converter unit (XPCU). The AUB60 uses the – 48V (signal grade) battery supply to provide –5, +5(A&B), +12, +48, –48, +130, and –130 V DC outputs necessary to power other XTC units and to provide control signals within the shelf.
Comcode 104044219
CLEI code 5SXT100AXX

AUB62 Order this circuit pack to receive an XTC alarm display unit (XADU). One XADU is required per XTC control shelf.
Comcode 104044235
CLEI code 5SXT201AXX

AUB66 Order **(30 Max.)** this unit to receive an XTC fan-out unit (XFOU). The AUB66 is controlled by the XCU. The AUB66 is not needed if the system under test is equipped with AUB2/AUB2B and AUB22 channel test units (CTUs) at the COT and RT, respectively, or a *SLC* 96 carrier system.
Comcode 104044276
CLEI code 5SXT600AXX

AUB67 Order **(10 Max.)** this unit to receive an XTC tester unit C (XTUC). The AUB67 performs two main functions:

- Interfaces the test leads between a *SLC* carrier system channel and SARTS or between a *SLC* carrier system channel and the MC, LTD, or RT cabinet
- Responds to the MC, LTD, or RT cabinet with channel unit test results or status (success or failure) of test access setup .

Comcode 104044284
CLEI code 5SXT700AXX

(Continued on next page)

Equipment Description and Ordering Information (Continued)

AUB68

Order **(10 Max.)** this unit to receive an XTC tester unit B (XTUB). The AUB68 performs two main functions:

- Provides a signaling interface (DX or FX) to SARTS using the XTUC when SARTS requests bitstream access
- Makes transmission and noise measurements on all types of channel units.

Comcode 105463442
CLEI code 5SXT802AXX

MC97745A1

Order **(10 Max.)** this unit to receive an XTC tester unit D (XTUD). The MC97745A1, AUB67 (XTUC), and AUB68 (XTUB) comprise the XTC tester unit. The MC97745A1 controls the operation of the XTUC and XTUB for channel unit testing and for access to SARTS and MLT.

Comcode 105504765
CLEI code 5SXT513CXX

AUB69

Order this unit to receive an XTC composite clock unit (XCCU). The AUB69 (when commanded by the XCU) provides a 64-kHz bipolar clock (5/8 duty cycle) with bipolar violations at a frequency of 333.3 Hz to a tester unit undergoing self tests.

Comcode 104044300
CLEI code 5SXT900AXX

MC97734A1^{DA}

This unit is rated DA and is replaced by the MC97761A1.

MC97761A1

Order this unit to receive an XTC controller unit (XCU). The MC97761A1 replaces the MC97734A1. The MC97761A1 controls specific internal operations of the XTC. The XCU:

- Directs all channel unit test procedures
 - Communicates between the XTC and the *SLC* carrier system
-

(Continued on next page)

Equipment Description and Ordering Information (Continued)

MC97761A1
(continued)

- Determines if resources are available to satisfy a request for test access
- Handles combinations of up to 10 simultaneous SARTS, MLT, LTD, and test cabinet test sessions
- Checks other XTC circuit packs for proper operation and activates an alarm if one malfunctions
- Performs the transmission and signaling tests on the carrier system channels when commanded from an LTD, LTC, MLT, or SARTS
- Provides the channel unit isolation testing capabilities for multiparty, frequency selective ringing (FSR), and direct inward dial (DID) channel units
- Supports COP feature
- Displays test result codes on a 7-segment LED of the ERROR CODE display.

Comcode 105458319
CLEI code 5SXTA20BXX

SM94C

Order **(40 Max.)** this unit to receive a PGTC trunk unit. Order one SM94C per two nondedicated test trunks. Provide a maximum of six trunk units per PGTC control shelf, and 10 trunk units per PGTC expansion shelf.

Comcode 103799037
CLEI code S9TP8B2AXX

AUB63B

Order **(2 Max.)** this unit to receive an XTC data link unit (XDLU). Order one AUB63B and place it in position XDLU-1 of the XTC control shelf for SARTS testing. Order a second AUB63B and place it in position XDLU-2 of the XTC control shelf to support the COP feature.

Comcode 104436936
CLEI code 5SXT320AXX

Related Documentation

List of XTC related documentation

The following table lists Lucent Technologies documentation where additional information may be found concerning XTC equipment. To order one or more of the following documents, refer to the "About This Document" section of this document.

Document	Title
363-005-246	<i>Data Sheet AUB60 Circuit Pack</i>
363-005-247	<i>Data Sheet MC97734A1 Circuit Pack</i>
363-005-248	<i>Data Sheet AUB62 Circuit Pack</i>
363-005-250	<i>Data Sheet MC97745A1 Circuit Pack</i>
363-005-251	<i>Data Sheet AUB66 Circuit Pack</i>
363-005-252	<i>Data Sheet AUB67 Circuit Pack</i>
363-005-253	<i>Data Sheet AUB68 Circuit Pack</i>
363-005-254	<i>Data Sheet AUB69 Circuit Pack</i>
363-005-255	<i>Data Sheet AUB63B Circuit Pack</i>
363-005-256	<i>Data Sheet MC97761A1 Circuit Pack</i>
363-202-300	<i>SLC[®]96 Carrier System Pair Gain Test Controller, Description and Installation</i>
363-205-103	<i>SLC[®]Series 5 Carrier System Centralized Operations and Provisioning, Installation, Test, and Maintenance</i>
363-205-300	<i>Extended Test Controller- Description, Turn-Up and Maintenance</i>
662-505-507	<i>Test Desk Procedures</i>
801-440-001	<i>(J1C142)- Pair Gain Test Controller</i>

(Continued on next page)

Related Documentation (Continued)

List of XTC
related
documentation
(continued)

Document	Title
824-102-117	<i>(J1P033)- Relay Rack Equipment- SMAS 5A or SMAS 5B/RTS-5A</i>
J1C142A-1	<i>Pair Gain Test Controller</i>
J1C182XA-1	<i>Extended Test Controller</i>
ED-7C675-10	<i>XTC Typical Bay Arrangements</i>
ED-97920-30	<i>PGTC PWB (Control Shelf)</i>
ED-97920-31	<i>PGTC PWB (Expansion Shelf)</i>
SD-1P106-01	<i>Switched Maintenance Access System No. 5, Local Test Ports and Distribution Circuit</i>
SD-1P107-01	<i>SMAS 5A/B RTS-5A Control Circuit</i>
SD-1P112-01	<i>RTS-5A Test Enhancement Circuit</i>
SD-1P113-01	<i>Metallic Interface Circuit</i>
SD-7C127-01	<i>Extended Test Controller Application Schematic Drawing</i>
SD-97760-01	<i>PGTC Application Schematic Drawing</i>

Centralized Operations and Provisioning Equipment

Overview

General



NOTE:

This section contains ordering numbers for equipment manufactured by vendors other than Lucent Technologies. The appearance of a particular product is not an endorsement of the product or a guarantee of its usefulness. Equipment manufactured by other vendors is likely to provide equivalent performance but has not been evaluated due to limitations of time and facilities.

Centralized operations and provisioning (COP) allows a customer to provision and administer special service channel units in a *SLC Series 5 Carrier System* from a PC. Access to the carrier system is provided through the XTC in the central office. The equipment required to support COP is ultimately determined by one of the four arrangements used to connect the PC to the XTC. Ordering information for the data equipment required to support one of the four arrangements listed below can be found in the section entitled "COP Data (Optional) Equipment".

- Dialed Line Access — uses a 2-wire subscriber line without security callback and modems at both ends.
- Dialed Line Access — uses a 2-wire subscriber line with security callback and modems at both ends.
- Private Line Access — uses a nonswitched data link and modems at both ends (without security).
- Direct Line Access — uses local wiring or cable (up to 50 feet) without external modems.

All data equipment *must* meet the electronic and physical requirements listed in Document 363-205-103, *Centralized Operations and Provisioning - Installation, Test, and Maintenance*. Also, the XTC control shelf must be equipped with COP compatible AUB63B (XDLU2) and MC97761A1 (XCU) circuit packs, and the associated Series 5 carrier systems *must* be Feature Package C (FPC) or Feature Package D (FPD).

COP Common Equipment

Introduction	Order common COP equipment by J-drawing number, comcode number, or ED-drawing number using the information below. Unless otherwise specified, order/provide one each of the following required items.
363-205-103	Order this document to provide an installation, test, and maintenance guide. Use Document 363-205-103 for installation instructions and special COP configuration requirements for the associated data equipment.
SD-7C127-01	Order this document to provide a schematic drawing required for installation, wiring, and test information.
ED-7C697-20, G1	Order this item to receive an XTC/XDLU2 to converter cable. Comcode 601380603
ED-7C697-20, G3	Order this item to receive a PC to modem cable [standard PC serial interface cable, (25-pin male to 9-pin female)] or equivalent.
ED-7C698-20, G2	Order this item to receive a modem to modular phone jack (standard switched network telephone line cable with RJ11 connectors) cable or equivalent.
J1C182XB-1, L1	Order this assembly to provide a universal data set mounting shelf and I/O cable. This shelf is rack mounted in the central office near the XTC and is used for locating the modem, protocol converter, and associated interconnection cables. The I/O cable provided is an EIA, RS-232 25-pin male to male with D-type connectors (commercially available).
J1C182XC-1, L1	Order this item to provide a COP user's guide (including floppy disk). Comcode 601232200

(Continued on next page)

COP Common Equipment (Continued)

Protocol converter Order this item to provide one protocol converter used to interface with the XTC. RS-232↔RS-422 interface connector - Black Box Corporation,
or
RS-232↔RS-422 interface connector - ARK Electronics.

**AT&T 6386 SX/EL
WGS personal
computer**



NOTE:

Recommended PCs for COP are the AT&T 6300 discontinued availability (DA), AT&T 6386 SX/EL WGS, or *IBM* PC/XT* personal computer.

The AT&T 6300 PC must be equipped with 640K random-access memory (RAM), a 10M hard drive, an asynchronous communication port, and computer program *MS-DOS*† operating system Version 2.1 or later.

If an *IBM XT* PC is used, the PC must be equipped with 640K RAM, computer program *MS-DOS* Version 2.1 or later and an asynchronous communication port. Also, if an external modem is used, the PC must be equipped with a serial port - COM 1 or COM 2.

Order the following equipment to receive an AT&T 6386 SX/EL WGS personal computer, equipped with a 20M hard drive and 640K RAM.

- 10658414 central processing unit (CPU)
- 406442277 keyboard (Keytronics)
- 406545947 14-inch monitor (AT&T)
- 405889155 mouse (AT&T Model 320)
- 105725865 mouse software.

Order/provide computer program *MS-DOS* operating system Version 2.1 or later.

* Trademark of International Business Machines Corporation.

† Registered trademark of Microsoft Corporation.

COP Data (Optional) Equipment

Introduction

In addition to the COP common equipment, you must select one group of data equipment to correspond with one of the four COP applications. Order/provide this additional equipment per application.

Dialed line access without security callback

Order COP common and installation/test equipment *plus* the required additional data equipment.

AT&T Model 4112 or *Smartmodem 1200B Modem**

Order this item to provide an internal modem (PC side).

AT&T Model 4000 or *Smartmodem* 1200 Modem

Order this item to provide an external modem (PC side).

***Smartmodem* 1200 or 212A Modem**

Order this item to provide the XTC side modem.

Dialed line access with security callback

Order COP common and installation/test equipment *plus* the required additional data equipment.

AT&T Model 4112 or *Smartmodem* 1200B Modem

Order this item to provide an internal modem (PC side).

AT&T Model 4000 or *Smartmodem* 1200 Modem

Order this item to provide an external modem (PC side).

***NEC*† *N9635E/2* Security Callback Modem**

Order this item to provide a security callback modem located on the XTC side. Use firmware Version 2.15 or later.

(Continued on next page)

* Trademark of Hayes Microcomputer Products, Inc

† Trademark of NEC America, Inc

COP Data (Optional) Equipment (Continued)

Private line access Order COP common and installation/test equipment *plus* the required additional data equipment.

212A Modem

Order **two** 212A modems. Provide one 212A for the PC side and one for the XTC side.

Direct line access Order only COP common and installation/test equipment for this arrangement. No data equipment is required for this arrangement.

COP Installation/Test Equipment

Introduction



NOTE:

A temporary phone line is required for dial-up applications. Refer to SD-7C127-01, Issue 5M or later for a circuit schematic.

The following equipment is needed to install and/or test the COP controller. Refer to Document 363-205-103 for application.

Terminal 5410 or equivalent

Order for use as a test vehicle.

INMAC clear signal 212A or equivalent

Required, order for dial-up or 2-wire private line applications.

INMAC model 303-1 M-F or equivalent

Order to provide a null modem connector.

INMAC model 330 F-F or equivalent

Order to provide a gender changer connector.

INMAC, model 858-1 or equivalent

Order this item to receive an EIA DB25 (male) loopback connector.

INMAC, RS-232 cable or equivalent

Order this item to provide an RS-232 cable equipped with DB25 (male) connectors at both ends.

Amphenol 117 or equivalent

Order this item to provide an RS-449 (male) connector or equivalent.

Addresses for COP Equipment Vendors

List of equipment vendor addresses The following addresses are provided to assist you in ordering COP equipment.

ARK Electronics Products, Inc.
1500 West Nasa Blvd.
Melbourne, FL 32902-2169

Black Box Corporation
Box 12800
Pittsburgh, PA 15241

Hayes Microcomputer Products Service Center
5953 Peachtree Industrial Blvd.
Norcross, GA 30092
Dial (404)-441-1617 for modem ordering information.

NEC America, Inc.
Data Communication Products
110 Rio Robles
San Jose, CA 95134

Universal Data Systems (UDS)
5000 Bradford Drive
Huntsville, AL 35805-1953

Related Documentation

List of COP related documentation

The following table lists Lucent Technologies documentation where additional information may be found concerning COP. To order one or more of the following documents, refer to the "About This Document" section of this document.

Document	Title
363-205-010	<i>SLC® Series 5 Carrier System, Applications and Planning Guide</i>
363-205-103	<i>SLC Series 5 Carrier System, Centralized Operations and Provisioning, Installation, Test, and Maintenance</i>
363-205-300	<i>SLC Series 5 Carrier System, Extended Test Controller, Description, Turn-Up and Maintenance</i>
363-205-402	<i>SLC Series 5 Carrier System, Channel Unit Installation, Loop Transmission Systems (TOP)</i>

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Introduction

Overview

General

This chapter contains ordering information for the craft interface unit (CIU). The information contained in this chapter is configured as follows:

- General information, operation, and compatibility
- Equipment description and ordering codes
- Related documentation.

The CIU (refer to the following figure) is a portable minicomputer used to provision or test special service channel units in a *SLC*[®]Series 5 Carrier System [except a *SPOTS*[®]channel unit, direct inward dial (DID), private line auto ring (PLAR), or dual ringing repeater (DRR) channel units]. The CIU also provides access to both sides (line and drop) of a channel unit for channel alignment testing.

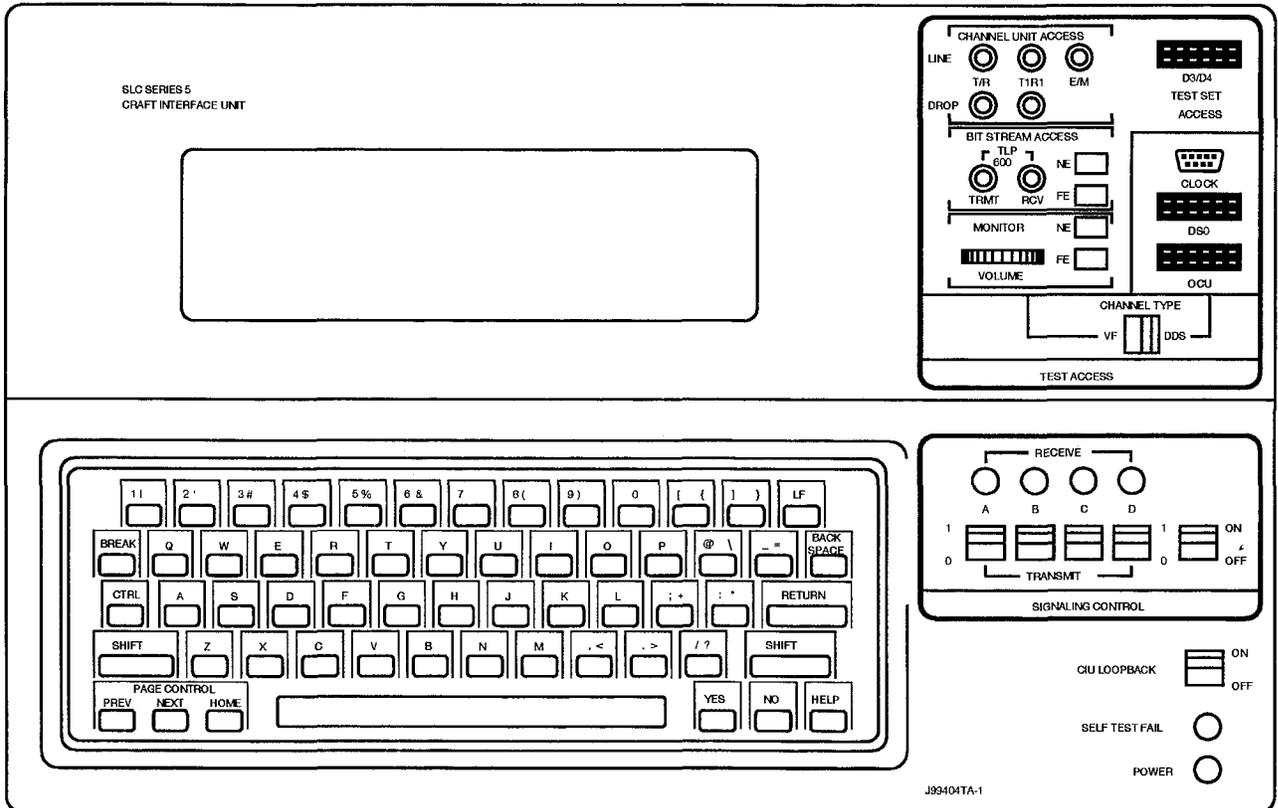
The CIU may be connected to a channel test unit (CTU) in either the central office terminal (COT) or the remote terminal (RT). Once connected, the CIU communicates with the bank control unit (BCU) (COT or RT) to provide the following:

- Provisioning features to enable the craftsman to specify option settings for special service channel units
- Channel unit test access during turnup and alignment
- Channel unit test access for troubleshooting
- Bank initialization at turnup
- CIU is required for turnup and maintenance of *SLC* Series 5 Carrier Systems equipped with the fiber-in-the-loop feature.

(Continued on next page)

Overview (Continued)

General (continued)



Equipment Description and Ordering Information

CIU Equipment Selection Guide

Introduction

The following equipment descriptions are provided to assist the user in selecting the proper equipment and quantities. The order wording is supported by a brief description, the Lucent Technologies comcode number, and the *COMMON LANGUAGE** *CLEI* code if assigned.

J99404TA-1, L3



NOTE:

The digital test unit (DTU) circuit packs per AUA18 and AUA19 are required with the CIU for initialization and maintenance testing of certain special service channel units. Normally, these maintenance operations are performed at the central office for both the COT and RT terminals. The DTUs are part of the common plug-in circuit packs required at the COT bank for Feature Package C (FPC) or Feature Package D (FPD). However, if for some reason, the initialization and/or maintenance testing must be performed from the RT, then the AUA18 and AUA19 DTUs must be provided as part of the portable test equipment package. See Chapter 3 for ordering the AUA18 and AUA19 circuit packs.

Order by J-drawing number and list, comcode, or *CLEI* code to receive a CIU assembly which includes a keyboard, display, power cable, and a test cable.

Comcode 601202674
***CLEI* code 5STE101AAA**

CIU test cable assembly

Order this item to replace a damaged or lost test cable assembly, or for a spare.

Comcode 845115245

(Continued on next page)

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Related Documentation

List of CIU related documentation

The following table lists Lucent Technologies documentation where additional information may be found concerning the CIU. To order one or more of the following documents, refer to the "About This Document" section of this document.

Document	Title
363-205-001	<i>Fiber To The Home, Information Guide</i>
363-205-010	<i>SLC® Series 5 Carrier System, Applications and Planning Guide</i>
363-205-101	<i>Craft Interface Unit, General Description</i>
363-205-102	<i>Craft Interface Unit, Quick Reference Card</i>
SD-97803-01	<i>Craft Interface Unit, Schematic Drawing</i>
Select Code 500-206	<i>Craft Interface Unit, User Guide</i>

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Introduction

Overview

General

This chapter contains ordering information for the test bus control unit (TBCU). The information contained in this chapter is configured as follows:

- General information, operation, and compatibility
- Equipment description and ordering codes
- Related documentation.

The TBCU provides an interface between an integrated digital loop carrier (DLC) system and a metallic test facility such as the mechanized loop testing system, Version 1 (MLT-1). Specifically, the TBCU serves either *SLC*[®]96 Carrier System remote terminals (RTs) or *SLC* Series 5 Carrier System Feature Package B (mode-96) RTs when integrated with a *5ESS*[®] switch through a digital carrier line unit (DCLU). The TBCU allows customer metallic drops to be tested with MLT-1, MLT-2, directly connected test unit (DCTU), or a manual test desk. The TBCU allows these facilities to test integrated *SLC* Carrier Systems in the same way universal *SLC* Carrier Systems are tested through a pair gain test controller (PGTC).

In a universal *SLC* Carrier System, the test system initiates a test by applying a voltage to the tip conductor of the central office terminal (COT) channel unit. A handshake ensues between the PGTC and the COT, resulting in the creation of a metallic path between the test system and the customer drop through the DC test pair to the RT location. To prevent contention between *SLC* Carrier Systems sharing a DC test pair, an *inhibit* lead is wired to all COTs connected to a particular DC test pair. The *inhibit* lead is grounded by the COT containing the channel under test whenever the DC test pair is in use; any attempts at the simultaneous testing of a different channel will result in a busy message to the test system requesting new access. Channel test results from the PGTC are relayed to the test system by voltages and/or tones on the test trunk.

When an integrated *SLC* Carrier System is being tested, the TBCU circuit imitates the actions of a COT and PGTC. Under control of the *5ESS* switch, the TBCU performs functions such as grounding or checking the status of the *inhibit* lead, creating the metallic path to the DC test pair, and applying voltages to the test bus indicating channel test results. Tones are not used to indicate channel test results when an integrated DLC is tested.

(Continued on next page)

Overview (Continued)

General (continued)

The TBCU consists of a shelf containing a power unit and up to 15 tester units. A tester unit contains two independent TBCU circuits, each providing an interface between the metallic service unit (MSU) or modular metallic service unit (MMSU), in the 5ESS switch and a DC test pair. One scan point, five distribution points, and one metallic test bus (MTB) are wired from the MSU to each TBCU circuit through the main distributing frame (MDF). These leads can also be wired directly, if desired.

A TBCU is required in every 5ESS switch office in which an integrated SLC 96 Carrier System or integrated SLC Series 5 Carrier System Mode 96 will be tested with MLT-1, MLT-2, integrated MLT-2, the DCTU, or a manual test board. A TBCU is used when all the DC test pairs serve integrated DLC systems or when both integrated and universal RTs share the same pair.

The SLC 96 Carrier System RTs or SLC Series 5 Carrier System RTs that share the same DC test pair must be collocated (for example, in the same mini-hut). If all the RTs served by a DC test pair are universal SLC Carrier Systems, no TBCU circuit is necessary for that pair. The maximum number of integrated SLC 96 or SLC Series 5 Carrier Systems on one DC test pair is 20 when using an MLT or a DCTU. The maximum is 10 when using a manual test desk.

Equipment Description and Ordering Information

TBCU Equipment Selection Guide

Introduction The following equipment descriptions are provided to assist the user in selecting the proper equipment and quantities. The order wording is supported by a brief description, the Lucent Technologies comcode number, and the *COMMON LANGUAGE** *CLEI* code if assigned.

J1C189A1, L1 Order to provide one TBCU control shelf with a capacity of one power unit (SM499) and 15 tester units (SM500).
Comcode 600358089

SM499 Order (**1 Max.**) in addition to a control shelf to provide a power unit circuit pack.
Comcode 104021506
CLEI code S9TP1A0AXX

SM500 Order (**15 Max.**) in addition to a control shelf to provide a tester unit circuit pack. One SM500 circuit pack accommodates two DC test pairs.
Comcode 104021571
CLEI code S9TP1B0AXX

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TBCU Related Documentation

List of TBCU related documentation

The following table lists Lucent Technologies documentation where additional information may be found concerning the TBCU. To order one or more of the following documents, refer to the "About This Document" section of this document.

Document	Title
363-202-300	<i>Pair Gain Test Controller, and Test Bus Control Unit, Description and Installation, Loop Transmission Systems</i>
662-505-507	<i>Test Desk Procedures</i>
801-450-104	<i>Test Bus Control Unit</i>
J1C189A-1	<i>Test Bus Control Unit Specification Drawing</i>
SD-97791-01	<i>Test Bus Control Unit Schematic Drawing</i>

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Introduction

Overview

General

This chapter contains ordering information for the remote measurement unit (RMU).

The RMU is used to test loops served by digital loop carrier systems (DLCSs). The RMU is mounted in a remote terminal (RT) enclosure (hut or cabinet) with the DLCS equipment. The RMU is an integral part of the mechanized loop testing -2 (MLT-2) system and performs the same tests as the loop test system (LTS) of MLT-2. Since the RMU is housed at an RT location, it does not use a bypass pair and is closer to the loop than the LTS. Thus the RMU extends the testing range of the MLT-2 system to stations that are beyond the DC test range of MLT. The RMU can also be used when there are no DC test pairs between the nearest LTS and the RT.

The RMU cannot be used with the *SLC*[®] Series 5 Carrier System integrated network access-remote terminal (INA-RT) because no data link is available in this configuration.

The *Distributions Services Engineer's Guide to the RMU*, available from your Lucent Technologies service representative, explains the following:

- How to decide whether to use RMUs or DC test pairs
 - How many RMUs to use
 - Where to place the RMU.
-

Equipment Description and Ordering Information

RMU Equipment Selection Guide

Introduction

The RMU may be ordered by ED- or comcode number (the appropriate group number should be included if using ED-number) with the information provided below. Unless otherwise specified, each item listed in this section has a rating of general availability.

ED-7C654-30, G1



NOTE:

One RMU is normally used to test all DLCSSs in an RT. Two RMUs may be used at a large RT if there are so many lines served by the RT that one RMU cannot handle the testing traffic.

Order this assembly to receive RMU equipment and wiring.

Comcode 601162159

ED-7C654-30, G2^{DA}

This group is rated discontinued availability (DA) and is replaced by G3 for all applications.

ED-7C654-30, G3

Order in addition to a G1 RMU assembly to provide wiring and equipment required for universal mounting of the RMU in a *SLC* 96 Carrier System or *SLC* Series 5 Carrier System location. A customer installation procedure manual (Comcode 105046189) is provided with this group.

Comcode 601218365

RMU Related Documentation

List of RMU related documentation

The following table lists Lucent Technologies documentation where additional information may be found concerning the RMU. To order one or more of the following documents, refer to the "About This Document" section of this document.

Document	Title
660-168-276	<i>MLT-2/RMU Operations & Maintenance Guide</i>
ED-7C654-30	<i>Remote Measurement Unit</i>
T-2P095-30	<i>Remote Terminal Wiring</i>
SD-2P095-01	<i>Remote Measurement Unit Schematic Drawing</i>

Turnup, Test, and Maintenance Equipment

11

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Introduction

Overview

General

This chapter lists equipment recommended for turnup, end-to-end testing, and maintenance of *SLC*[®]Series 5 Carrier System central office terminals (COTs) and remote terminals (RTs). Also listed is equipment recommended for T1 line testing at both the COT and RT and equipment recommended for installation, maintenance, and conversion of the extended test controller (XTC).

Refer to Chapter 7 for ordering information on the pair gain test controller (PGTC) and XTC. Refer to Chapter 8 for ordering information on the craft interface unit (CIU). Refer to Chapter 10 for information on the remote measurement unit (RMU).

Equipment Descriptions and Ordering Codes

Turnup, Test, and Maintenance Equipment Selection Guide

Introduction

This section contains an alphanumeric listing of test equipment codes and ordering information required for turnup, end-to-end, and maintenance of *SLC* Series 5 Carrier Systems. Also listed is the equipment required for COT or RT repeated line testing and the equipment recommended for installation, testing, or conversion of the XTC. The order wording is supported by a brief description, the Lucent Technologies comcode number, and the *COMMON LANGUAGE** *CLEI* code if assigned. Each item listed in this section has a rating of general availability except as noted.

AUA18 circuit pack

Order this item to receive a digital test unit-left (DTU-L) circuit pack. Refer to Chapter 3 for a full description of the AUA18.

Comcode 103840336

CLEI code 5SCDA00AXX

AUA19 circuit pack

Order this item to receive a digital test unit-right (DTU-R) circuit pack. Refer to Chapter 3 for a full description of the AUA19.

Comcode 103840344

CLEI code 5SCDB00AXX

AUA78 circuit pack

Order this item to receive an AUA78 fault-locating test adapter (FLTA) circuit pack. This circuit pack plugs into the line interface unit (LIU) slot at either the COT or the RT for fault-locating a T1 digital line. The FLTA may be used with the J98725AD1, L1^{DA}, Sierra 315B or 415A-2, or equivalent fault-locate test sets.

Comcode 105482269

CLEI code 5SCSJ45AXX

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Turnup, Test, and Maintenance Equipment Selection Guide (Continued)

AUA80 circuit pack Order this item to receive an AUA80 line test adapter (LTA) circuit pack. The LTA is placed in an LIU slot at the COT or RT to provide test access for measuring insertion loss on the digital line pairs.
Comcode 103841029
CLEI code 5SCSK00AXX

CO2979601 test set insert Order this item to receive a (Sierra) test set insert. This insert is required to adapt a Sierra test set to test 238- and 239-type low power repeaters.
Comcode 401939335

Key Order this item to receive a key to open 51A, 80A, 80D, or 80E cabinets.
Comcode 846244168

KS-14510, L11 meter, analog VOM Order this item to receive an analog volt-ohm-milliammeter (VOM) with case.
Comcode 401549431
CLEI code TEVMKZ0FAA

KS-14711 battery^{DA} This item is rated discontinued availability (DA).

KS-19531, L1 connector plug This metallic plug is used when turning up the XTC control and expansion shelves.
Comcode 997116181

KS-22475, L1 test set^{DA} This item is rated DA and is replaced by the 312AL2 test set.

(Continued on next page)

Turnup, Test, and Maintenance Equipment Selection Guide (Continued)

KS-22475, L2
adapter^{DA}

This item is rated DA and is replaced by the 312A L3 adapter.

KS-22605, L4
access shelf

Order this item to receive an access shelf for use at either the COT or RT when rear access to the channel bank is unavailable.

Comcode 405369505

J98725AA1, L1,3^{DA}

This item is rated DA.

J98725AB1, L2, B,
C detector^{DA}

This item is rated DA.

J98725AD1, L1 test
set^{DA}

This item is rated DA.

P3BH patch cord(s)

Order this item by length to receive a 3-, 6-, or 12-foot (slate) patch cord consisting of three conductors. Two conductors are No. 22 AWG stranded wire with polyethylene insulation, and the third conductor is formed by the braided shield.

Comcode 102315017(3 ft.)

Comcode 102314705(6 ft.)

Comcode 102314739(12 ft.)

RTG16L2H15A
test cord

Order this item to receive an ITT *Cannon** test cord. This cord is used to access the Tip/Ring jacks (if equipped) on channel unit faceplates.

Comcode 405755208

(Continued on next page)

* Registered trademark of ITT.

Turnup, Test, and Maintenance Equipment Selection Guide (Continued)

TPI 108/109 RT II data test unit

This data test unit is used in conjunction with the craft interface unit (CIU) when installing or troubleshooting dataport circuits. Office Channel Unit (OCU) and channel loopback tests may be performed with this unit at 2.4, 4.8, 9.6, or 56 kb/s. In addition, 19.2 kb/s digital data system (DDS) and 64 kb/s clear channel circuits may also be tested with this unit. This equipment is not manufactured by Lucent Technologies and must be obtained from:

Telepath Industries, Inc.
3602 Melrose Ave., NW
Roanoke, V. A. 24017
Telephone: (703)-982-8844

TPI 108-50A dataport interface unit

The TPI 108-50A dataport interface unit is used in with the craft interface unit when installing or troubleshooting dataport circuits. This unit is located between the **DS0** terminal of the CIU and the **SIGNAL** terminal of the TPI 108/109 data test unit during OCU/channel loopback testing. Refer to Document 363-205-402, *SLC Series 5 Carrier System Channel Units Installation and Testing*, for additional test instructions and information. This equipment is not manufactured by Lucent Technologies and must be obtained from Telepath Industries, Inc.

TPI 108-51 clock interface unit

The TPI 108-51 clock interface unit is used in conjunction with the craft interface unit when installing or troubleshooting dataport circuits. This unit is located between the **CLOCK** terminals of the CIU and the TPI 108/109 data test unit during OCU/channel loopback testing. Refer to Document 363-205-402, *SLC Series 5 Carrier System Channel Units Installation and Testing*, for additional test instructions and information. This equipment is not manufactured by Lucent Technologies and must be obtained from Telepath Industries, Inc.

W2HR test cord

Order this item to receive a 5-foot long "bridging" test cord equipped with a 310A plug on one end and a 526A plug on the other end. One test cord is shipped with each 80-type cabinet. Order only if multiple cords or replacement cords are needed.

Comcode 105329379

(Continued on next page)

Turnup, Test, and Maintenance Equipment Selection Guide (Continued)

W4DE test cord The W4DE "access" test cord is 5 feet long and is used when fault-locating T1 extensions from 80-type cabinets. Connection is made between the signal generator jack of the fault locate test set and the 4C12C protector position. One test cord is shipped with each 80-type cabinet. Order only if multiple cords or replacement cords are needed.
Comcode 105329395

W4DF test cord Order this item to receive a 3-foot long test cord used to loop the digital line. This cord replaces the 4C12C transmit and receive protector units. [A 262C terminating plug must be inserted in the appropriate FL jack on the load distribution unit (LDU).] The W4DF is not included in any cabinet and must be ordered separately.
Comcode 105414973

6W3F test cord Order this item to receive a 10-foot long test cord that is equipped with a 526A and 463A plug on one end and the other end is bare. This test cord allows a test set equipped with alligator clips to bridge onto a line or access the equipment and/or field side of a line by removing its protector.
Comcode 106411317

47A extender^{DA} This item is rated DA and is replaced by the 47B extender card.

47B extender Order this item to receive an extender card used with the PGTC to test trunk lines.
Comcode 104435953
CLEI code 5STE240BAA

(Continued on next page)

Turnup, Test, and Maintenance Equipment Selection Guide (Continued)

52A extender	Order this item to receive a 52A channel unit test extender. The 52A has faceplate mounted 310-compatible jacks which allow monitoring of the T/R, T1/R1, E/M, and SG/SB leads on the backplane. This unit also has active circuitry that provides normal and reverse battery feed plus a hold function to condition signaling for testing 2- and 4-wire channel units. Comcode 104412911 CLEI code 5STE430CAA
52AH handset	Order this item to receive a 52-type handset for the maintenance of T1 lines. Comcode 101215804
80C fuse	Order this item to receive a 3-ampere, 80-type fuse. This fuse is equivalent to a KS-23824 L3 fuse. Comcode 103752168
80D fuse	Order this item to receive a 5-ampere, 80-type fuse. This fuse is equivalent to a KS-23824 L4 fuse. Comcode 103800637
80G fuse	Order this item to receive a 0.5-ampere, 80-type fuse. This fuse is equivalent to a KS-23824 L6 fuse. Comcode 103839916
107B power unit ^{DA}	This item has been rated DA.

(Continued on next page)

Turnup, Test, and Maintenance Equipment Selection Guide (Continued)

197A battery load test set	Battery load test set used for testing KS-21906, L4 (Gates 6-pack) batteries. Comcode 103655858 CLEI code S9TE610EAA
216C tool	Order this item to receive a tool used to open 80A, 80D, or 80E RT cabinets. Comcode 102450574
240B3 test set probe	Order this item to receive a (Lear Siegler) test set probe for use with the 317BT1 test set. Comcode 401875869
244A-3 test set probe	Order this item to receive a (Lear Siegler) test set probe for use with the 417B line and repeater test set. Comcode 402441851
258G terminating plug	Order this item to receive a (bright green) dummy plug of insulating material intended for use with jacks that take No. 310 or similar type plugs. Comcode 101634574
262B terminating plug	Order this item to receive a (red) plug used for bridging 600-ohm resistance across tip and ring on toll line circuits. Comcode 100395474
262C terminating plug	Order this item to receive a (red) plug used for bridging 900-ohm resistance across tip and ring on toll line circuits. Comcode 100395474

(Continued on next page)

Turnup, Test, and Maintenance Equipment Selection Guide (Continued)

312AL2 trunk test set	Order this item to receive a trunk test set (Berry Box). Comcode 405359050
312A L3 trunk test set adapter	Order this item to receive a positive sleeve current adapter (used with the PGTC to test trunk lines). Comcode 405462888
315B T1 fault locate test set	Order this item to receive a (Sierra) fault locate test set. Comcode 401940135
317BT1 T1 line and repeater test set	Order this item to receive a (Sierra) line and repeater test set. Comcode 401924931
415A2 T1 fault locate test set	Order this item to receive a (Sierra) fault locate test set. Comcode 402066518
417A2 test set ^{DA}	This item is rated DA and is replaced by the 417B test set.
417B T1 line and repeater test set	Order this item to receive a (Lear Siegler) line and repeater test set. Comcode 401875463
500 telephone set	Order this item to receive a standard rotary telephone set. Comcode 104247218

(Continued on next page)

Turnup, Test, and Maintenance Equipment Selection Guide (Continued)

505A test adapter Order this item to receive a 505A line loss measuring adapter. The 505A is a passive unit which is placed in an LIU slot at the COT or RT and used when measuring pair loss on the digital lines. The front of the adapter has an 11-pin connector which is compatible with the J98725AA1, L1, 3^{DA} test set and four pin jacks for access to lines T, R, T1, and R1.

Comcode 105191985

CLEI code 5SCSL03EXX

950A test set Order this item to receive a 950A maintenance test set used with basic rate interface transmission extension (T-BRITE and BRITE II) channel units. This unit plugs into an empty channel unit slot in a *SLC* Series 5 Carrier System bank. The 950A can be used in a line interface unit (LIU) or line switch unit (LSU) slot. If the 950A is used in an LIU or LSU slot, the 950A faceplate will not seat flush with other units in the bank.

Comcode 105560627

CLEI code 5STEA00DAB

1015B hand set Order this item to receive an orange installer's handset (butt set).

Comcode 103981098

8060A digital multimeter Order this item to receive a digital VOM meter. This digital multimeter is specified for a variety of *SLC* Series 5 Carrier System, PGTC, and XTC turn up, test, and modification procedures.

Comcode 403427529

Related Documentation

**List of turn up,
test, and
maintenance
equipment related
documentation**

The following table lists Lucent Technologies documentation where additional information may be found concerning the equipment in this chapter. To order one or more of the following documents, refer to the "About This Document" section of this document.

Document	Title
363-005-206	<i>Data Sheet AUA18 Circuit Pack</i>
363-005-207	<i>Data Sheet AUA19 Circuit Pack</i>
363-005-231	<i>Data Sheet AUA78 Circuit Pack</i>
363-005-233	<i>Data Sheet AUA80 Circuit Pack</i>
363-005-234	<i>Data Sheet 505A Line Loss Measuring Adapter</i>
363-005-235	<i>Data Sheet 52A Channel Unit Test Adapter</i>
363-005-238	<i>Data Sheet 950A Maintenance Test Set</i>
363-200-001	<i>T-Type Digital Line Preservice Testing</i>
363-205-400	<i>COT Acceptance and Turn-Up</i>
363-205-401	<i>RT Acceptance and Turn-Up</i>
363-205-402	<i>Channel Unit Installation</i>
363-205-406	<i>End-to-End System Tests</i>
363-205-500	<i>Maintenance and Trouble Clearing</i>
640-527-220	<i>J98725AA Test Set Pair Loss Measurement for T1, T1C, or T1 Outstate</i>
640-527-225	<i>T1 Digital Line Bipolar Violation Detector (J98725AB)</i>
801-528-153	<i>J98725 Specification T1C Repeatered Line Equipment</i>

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Introduction

Overview

General

This chapter provides ordering information for T1 repeaters, repeater cases, apparatus cases, cable closures, and associated fault locate filters commonly used with *SLC*[®] Series 5 Carrier System applications.

Equipment Descriptions and Ordering Information

T1 Line Equipment Selection Guide

Introduction The order wording and equipment descriptions contained in this section are arranged in alphanumeric order. The order wording is supported by a brief description, the Lucent Technologies comcode number, and the *COMMON LANGUAGE** *CLEI* code if assigned. Unless otherwise specified, each item listed in this section has a rating of general availability.

AT-8736 Order this item to receive a cable closure (PC12/55) for 10 repeaters. This item is used in buried pedestal mounting applications and requires a fault locate filter.
Comcode 401490933

AT-8782 Order this item to receive a pressure contactor for manhole mounting applications.
Comcode 401804844

D-180934 Order this item to receive a kit of parts for an AT-8736 cable closure.
Comcode 103245585

131B Order this item to receive a bracket used to mount a 25 repeater case. The 131B bracket replaces the 131A.
Comcode 103827416

208A Order this item to provide a (gas tube) high voltage protector for the 809B3 or 819A1 repeater case.
Comcode 103941274

(Continued on next page)

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T1 Line Equipment Selection Guide (Continued)

238A Order this item to receive a T1 line repeater. The 238A is used in lightning protection applications. This unit is powered over a simplex path on the same pairs used for pulse transmission.
Comcode 102703469
CLEI code T1R1A10BAH

239A Order this item to receive a T1 line repeater. The 239A is used in applications without lightning protection. This unit is powered over a simplex path on the same pairs used for pulse transmission.
Comcode 102720356
CLEI code T1R1B10CAH

809B3 Order this item to receive a repeater case for 12 repeaters. This repeater case is normally used for buried pedestal mounting applications and requires a fault locate filter. The 809B3 repeater case replaces the 809B2.
Comcode 104391305
CLEI code T1RCKB6A

818A1 Order this item to receive a repeater case with a capacity of 25 T1 repeaters. The 818A1 is used in manhole mounting applications without lightning protection and requires a fault locate filter.
Comcode 103064051
CLEI code T1RC8A4A

819A1 Order this item to receive a repeater case with a capacity of 25 T1 repeaters. The 819A1 is used in manhole mounting applications with lightning protection and requires a fault locate filter.
Comcode 103064085
CLEI code T1RC9A4A

(Continued on next page)

T1 Line Equipment Selection Guide (Continued)

- 829A** Order this tool to facilitate the insertion or removal of a 200A (rated DA) or 208A (gas tube) protector.
Comcode 102950003
CLEI code TETQ176AAA
-
- 841BP1-100T1-30** Order this item to receive a repeater case for aboveground pedestal mounting with a capacity of 100 T1 repeaters. The case is supplied with a 30-foot air core cable stub with a gastight pressure plug. Other codes are available for cases used with T1C or T1D repeaters and for cases configured for pole mounting.
Comcode 104012877
-
- 841CP1-100T1** Order this item to receive a repeater case for aboveground pedestal mounting with a capacity of 100 T1 repeaters. The case is equipped with an internal splicing chamber for splicing repeatered lines. Other codes are available for cases used with T1C or T1D repeaters.
Comcode 104027818
-
- 1000A** Order this item to receive an order wire terminal used to establish a talk circuit for maintenance operations.
Comcode 103183281
-
- 1068AA** Order this item to receive a passive fault locate filter.
Comcode 103231056
CLEI code T1F11A1AAA
-
- 1068AB** Order this item to receive a passive fault locate filter.
Comcode 103231064
CLEI code T1F11B1AAA
-

(Continued on next page)

T1 Line Equipment Selection Guide (Continued)

1068AC Order this item to receive a passive fault locate filter.
Comcode 103231072
CLEI code T1F11C1AAA

1068AD Order this item to receive a passive fault locate filter.
Comcode 103231080
CLEI code T1F11D1AAA

1068AE Order this item to receive a passive fault locate filter.
Comcode 103231098
CLEI code T1F11E1AAA

1068AF Order this item to receive a passive fault locate filter.
Comcode 103231106
CLEI code T1F11F1AAA

1068AG Order this item to receive a passive fault locate filter.
Comcode 103231114
CLEI code T1F11G1AAA

1068AH Order this item to receive a passive fault locate filter.
Comcode 103231122
CLEI code T1F11H1AAA

1068AJ Order this item to receive a passive fault locate filter.
Comcode 103231130
CLEI code T1F11J1AAA

(Continued on next page)

T1 Line Equipment Selection Guide (Continued)

1068AK	Order this item to receive a passive fault locate filter. Comcode 103231148 CLEI code T1FI1K1AAA
1068AL	Order this item to receive a passive fault locate filter. Comcode 103231155 CLEI code T1FI1L1AAA
1068AM	Order this item to receive a passive fault locate filter. Comcode 103231163 CLEI code T1FI1M1AAA
1114AA	Order this item to receive an active single amplifier filter. Comcode 103315115 CLEI code T1FI2A2BAA
1114AB	Order this item to receive an active single amplifier filter. Comcode 103315123 CLEI code T1FI2B2BAA
1114AC	Order this item to receive an active single amplifier filter. Comcode 103315131 CLEI code T1FI2C2BAA
1114AD	Order this item to receive an active single amplifier filter. Comcode 103315149 CLEI code T1FI2D2BAA
1114AE	Order this item to receive an active single amplifier filter. Comcode 103315156 CLEI code T1FI2E2BAA

(Continued on next page)

T1 Line Equipment Selection Guide (Continued)

1114AF Order this item to receive an active single amplifier filter.
Comcode 103315164
CLEI code T1FI2F2BAA

1114AG Order this item to receive an active single amplifier filter.
Comcode 103315172
CLEI code T1FI2G2BAA

1114AH Order this item to receive an active single amplifier filter.
Comcode 103315180
CLEI code T1FI2H2BAA

1114AJ Order this item to receive an active single amplifier filter.
Comcode 103315198
CLEI code T1FI2J2BAA

1114AK Order this item to receive an active single amplifier filter.
Comcode 103315206
CLEI code T1FI2K2BAA

1114AL Order this item to receive an active single amplifier filter.
Comcode 103315214
CLEI code T1FI2L2BAA

1114AM Order this item to receive an active single amplifier filter.
Comcode 103315222
CLEI code T1FI2M2BAA

(Continued on next page)

T1 Line Equipment Selection Guide (Continued)

1115AA Order this item to receive an active dual amplifier filter.
Comcode 103315230
CLEI code T1FI3A2CAA

1115AB Order this item to receive an active dual amplifier filter.
Comcode 103315248
CLEI code T1FI3B2CAA

1115AC Order this item to receive an active dual amplifier filter.
Comcode 103315255
CLEI code T1FI3C2CAA

1115AD Order this item to receive an active dual amplifier filter.
Comcode 103315263
CLEI code T1FI3D2CAA

1115AE Order this item to receive an active dual amplifier filter.
Comcode 103315271
CLEI code T1FI3E2CAA

1115AF Order this item to receive an active dual amplifier filter.
Comcode 103315289
CLEI code T1FI3F2CAA

1115AG Order this item to receive an active dual amplifier filter.
Comcode 103315297
CLEI code T1FI3G2CAA

(Continued on next page)

T1 Line Equipment Selection Guide (Continued)

1115AH Order this item to receive an active dual amplifier filter.
Comcode 103315305
CLEI code T1FI3H2CAA

1115AJ Order this item to receive an active dual amplifier filter.
Comcode 103315313
CLEI code T1FI3J2CAA

1115AK Order this item to receive an active dual amplifier filter.
Comcode 103315321
CLEI code T1FI3K2CAA

1115AL Order this item to receive an active dual amplifier filter.
Comcode 103315339
CLEI code T1FI3L2CAA

1115AM Order this item to receive an active dual amplifier filter.
Comcode 103315347
CLEI code T1FI3M2CAA

Related Documentation

List of T1 line equipment related documentation

The following table lists Lucent Technologies documentation where additional information may be found concerning T1 line equipment. To order one or more of the following documents, refer to the "About This Document" section of this document.

Document	Title
363-200-001	<i>T-Type Digital Line-Preservice Testing</i>
363-202-525	<i>Remote Power Feed Terminal Description, Installation, and Maintenance</i>
631-215-200	<i>5-Type Closures Description and Installation</i>
640-250-206	<i>478 Type Apparatus Case Description Installation and Maintenance</i>
640-525-220	<i>T1 Line Pair Loss Measurements</i>
640-525-225	<i>T1 Digital Line Error Detection</i>
640-525-304	<i>T1 and T1/OS Carrier 468C6 Apparatus Case Description, Installation Splicing, and Maintenance</i>
640-525-307	<i>818- /819- Type Repeater Cases Description, Installation, Splicing, and Maintenance T1, T1C, T1D, T1G, and T1/OS Carrier Systems</i>
640-525-308	<i>809-Type Repeater Cases Description, Installation, Splicing, and Maintenance</i>
640-525-309	<i>841B and 841C Repeater Cases, Description, Installation, Splicing, and Equipping</i>
640-525-315	<i>T1, T1C, T1D, T1G, and T1/OS Apparatus Cases and Associated Plug-In Equipment</i>
640-527-225	<i>T1 Digital Line Bipolar Violation Detector (J98725AB)</i>
801-438-150	<i>J98710 Specification for T1 Carrier Repeated Line Equipment</i>
915-710-115	<i>SLC® Series 5 Carrier System Application Engineering Practice</i>

Lucent Technologies
Bell Labs Innovations



SLC[®] Series 5 Carrier System
Quick Reference Ordering Guide

363-205-000,
Appendix 1
Issue 6
March 1997

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This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy, and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residence is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

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Overview

Introduction

General	<p>This appendix supplements Document 363-205-000, <i>SLC Series 5 Carrier System Ordering Guide</i> and Document 363-205-010, <i>SLC Series 5 Carrier System Applications and Planning Guide</i>. The information contained in this appendix is configured into tables that contain basic ordering information, a brief description, and (for circuit packs) feature package compatibility.</p> <hr/>
Summary of changes	<p>This document is reissued to add equipment for Feature Package 303 (FP303) and to update ordering information for other circuit packs. Refer to Document 363-205-003, <i>SLC-2000 Access System, Multi-Services Distant Terminal Feature, Applications, Planning, and Ordering Guide</i>, for ordering information for the fiber-in-the-loop (FITL) equipment associated with the <i>SLC Series 5 Carrier System</i>.</p> <p>New or changed information for this issue is identified by bold face type.</p> <hr/>
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* Certain restrictions may apply. Refer to 363-205-010 if you have specific questions concerning service offerings, special applications, or restrictions.

Ordering Information

Introduction

General

This appendix contains ordering information for the most frequently ordered *SLC* Series 5 Carrier System equipment codes. If a discrepancy exists between the base document and this appendix, use the document with the latest publication date.

Equipment and circuit pack ordering tables

The information contained in this appendix is arranged into eight tables described as follows:

- *SLC* Series 5 Carrier System Channel Circuit Packs
 - *SLC* Series 5 Carrier System Common Circuit Packs
 - *SLC* Series 5 Carrier System Extended Test Controller Circuit Packs
 - *SLC* Series 5 Carrier System COT Frames and Associated Equipment
 - *SLC* Series 5 Carrier System RT Frames and Associated Equipment
 - *SLC* Series 5 Carrier System RT Cabinets and Enclosures
 - *SLC* Series 5 Carrier System Discontinued Availability Circuit Packs.
-

Channel Circuit Packs Ordering Information (Continued)

Channel circuit packs ordering table (continued)

The following table provides ordering information peculiar to the SLC Series 5 Carrier System channel circuit packs.

Channel Unit Code	Channel Unit Feature Description	COMMON LANGUAGE * CLEI Code	Comcode	Data Sheet	Feature Package							
					B RT	C COT	RT	FPB/SS M1 M2	INA-RT MI MIII	FP303		
AUA16	DCU-L	5SCS400AXX	103840310	363-005-142		X	X	X	X			
AUA17	DCU-R	5SCS500AXX	103840328	363-005-143		X	X	X	X			
AUA25B	POTS/M SPOTS®	5SCURP8AXX	105710289	363-005-124	X		X	X	X			X
AUA26	POTS CS + OHT	5SC1CC1AXX	103840427	363-005-127		X						
AUA27	POTS CF + OHT	5SC1DD1AAB	103840435	363-005-128			X					
AUA33()	Coin CS	5SCU231AXX	103840500	363-005-103		X						
AUA34	DS0 Dataport	5SCU380AXX	103840518	363-005-104		X						
AUA34B	DS0 Dataport (All-rate)	5SC133AAAA	107748436	363-005-104		X						
AUA35	Multiparty	5SCU540AXX	103840526	363-005-109		X						
AUA36()	DID	5SCU9F0AXX	103840534	363-005-114		X						
AUA37	FSR CS	5SCUS04AXX	103840542	363-005-121		X						
AUA38	POTS CS + OHT/ CLASS +LSAS	5SCU1G0AAD	103840559	363-005-118		X						
AUA38B		5SC1Y20AAA	106222664	363-005-118		X						
AUA39	POTS/SPOTS CS + OHT/CLASS	5SCU8M0AXX	103840567	363-005-120		X						
AUA41()	4-Wire CF (FXS/ ETO/DX)	5SCU7D1AAB	106064876	363-005-105		X	X	X	X	X	X	
AUA42()	2-W E SPOTS CS	5SCU690AXX	103840609	363-005-106		X	X	X	X	X	X	
AUA43()	2-W E SPOTS CF	5SCU6A6AXX	105478713	363-005-107		X	X	X	X	X	X	
AUA44	4-W VF CS	5SCU7C6AAB	105678171	363-005-108		X	X	X	X	X	X	
AUA45B	Dual Ringing Rptr. (Manual Ring)	5SCUUJ5AXX	105717987	363-005-123	X	X	X	X	X	X	X	

See footnote at end of table.

(Continued on next page)

Channel Circuit Packs Ordering Information (Continued)

Channel circuit packs ordering table (continued)

Channel Unit Code	Channel Unit Feature Description	COMMON LANGUAGE CLEI Code	Comcode	Data Sheet	Feature Package							
					B RT	C COT	RT	FPB/SS M1 M2	INA-RT MI MIII	FP303		
AUA52	OCU Dataport	5SCU480AXX	103840716	363-005-111		X	X	X	X	X	X	
AUA52B	OCU Dataport	5SC1430AAA	106244163	363-005-111		X	X	X	X	X	X	
AUA53	Coin CF	5SCU261AAA	106210396	363-005-112	X		X	X				X
AUA54()	4-W SS	5SCU7B0AXX	103840732	363-005-113		X	X	X	X	X	X	
AUA55B	Multiparty CF	5SCU578AXX	105722573	363-005-116	X		X	X	X			X
AUA56	DID 2-W (DPT)	5SCU9E0AXX	103840757	363-005-115	X		X	X	X	X	X	X
AUA57	FSR CF	5SCUT04AXX	103840765	363-005-122	X		X	X	X			
AUA58(B,C)	POTS CF	5SCU1H8AXX	105710297	363-005-117	X		X	X	X			X
AUA75	2W-PLAR	5SC1FF2AXX	103840963	363-005-132	X	X	X	X	X	X	X	
AUA90	ISDN T-BRITE	5SC1EE0AXX	104043823	363-005-129				X		X	X	
AUA92	ISDN BRITE II	5SC1JE0AAA	104043849	363-005-130		X						
AUA93	ISDN BRITE II	5SC1HE0AAB	104043856	363-005-131				X				
AUA94	ISDN Dual ANSI-U	5SC18E0AAA	104043864	363-005-135								X
AUA117	DCU-R	5SCS5C0AAA	106018120	363-005-154		X	X					
AUA150	POTS/SPOTS CF	5SCU1LVAAB	106018500	363-005-133	X		X	X	X		X	X
AUA158(B,C)	ALC POTS CF	5SC1WW0AAA	106903388	363-005-303	X		X	X	X			X
AUA159(B,C)	ALC POTS/SPOTS	5SC1W09AAA	106903396	363-005-304	X		X	X	X			X
AUA179	ALC POTS/SPOTS +ALIC5+OHT/CLASS	5SCIHW9AAA	106856776	363-005-311	X			X	X			
AUA400	POTS 2 DS0	5SCF410CXX	104432851	363-005-260			X	X	X			
AUA401	POTS 4 DS0	5SCF420CXX	104432869	363-005-261			X	X	X			
AUA403	TEST	5SCUV00AXX	104432885	363-005-266			X	X	X			
AUA404	POTS 2 DS0	5SCF41BCAA	104433115	363-005-267			X	X	X			
AUA405	POTS 4 DS0	5SCF42BCAA	104447941	363-005-268			X	X	X			
AUA406	6-24 DS0 Optical	5SCF660EAA	105516447	363-005-273	Used with FPF (RT), supports SLC-2000 MSDT							
AUA408	MSDT Server	SAIUMB0XXX	106275662	363-005-274	Used with FPF (RT), supports SLC-2000 MSDT							

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Common Circuit Packs Ordering Information

Common circuit packs ordering table

The following table provides ordering information peculiar to the SLC Series 5 Carrier System common circuit packs.

Common Unit Code	Common Unit Feature Description	COMMON LANGUAGE * CLEI Code	Comcode	Data Sheet	Feature Package							
					B RT	C COT	RT	FPB/SS M1 M2	INA-RT MI MIII	FP303		
AUA1	TRU	5SCS200AXX	103840245	363-005-161		X						
AUA3 S2	OTU	5SCS604AXX	103840468	363-005-202		X						
AUA11C	PCU	5SCD4J2AAB	105728042	363-005-204	X	X	X	X	X	X	X	X
AUA18	DTU-L	5SCDA00AXX	103840336	363-005-206		X	X	X	X	X	X	X
AUA19 S1:3	DTU-R	5SCDB00AAC	103840344	363-005-207		X	X	X	X	X	X	X
AUA21B	TRU	5SC5300AXX	105710255	363-005-162			X			X	X	
AUA22B	TRU	5SCSM09AXX	105710268	363-005-163	X			X				
AUA24 S1:2	FCU	5SCD500AXX	103840401	363-005-205	X		X	X	X	X	X	X
AUA61D	LIU-ORB	5SLI1A4AAB	105703946	363-005-150	X	X	X	X	X	X	X	X
AUA62D S3:4	LIU-PWR	5SLI129AAB	106314305	363-005-151	X	X	X	X	X	X	X	X
AUA62F	LIU-PWR	XXXXXXXXXX	XXXXXXXX	363-005-151	X	X	X	X	X	X	X	X
AUA64D S3:4	LIU-LOOP	5SLI149AAC	106313802	363-005-152	X	X	X	X	X	X	X	X
AUA64F	LIU-LOOP	XXXXXXXXXX	XXXXXXXX	363-005-152	X	X	X	X	X	X	X	X
AUA71	TCU	5SLI280AXX	103840922	363-005-164						X		
AUA73B	LSU	5SCS159AXX	105710271	363-005-165	X	X	X	X	X			
AUA74	LSU	5SPQABCAAA	103840955	363-005-196								X
AUA78 S3	FLTA	5SCSJ45AAB	105482269	363-005-231	X	X	X	X	X	X	X	
AUA80	LTA	5SCSK00AXX	103841029	363-005-233	X	X	X	X	X	X	X	
AUA105B	TRU	5SPQABUXXX	106972094	363-005-167	X		X	X	X			
AUA109	TRU	5SCS30AAAB	105711626	363-005-168	X		X	X				
AUA112	TRU	5SCS3G0AAA	106016546	363-005-158								X

See footnote at end of table.

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Common Circuit Packs Ordering Information (Continued)

Common circuit packs ordering table (continued)

Common Unit Code	Common Unit Feature Description	COMMON LANGUAGE CLEI Code	Comcode	Data Sheet	Feature Package							
					B RT	C COT	RT	FPB/SS M1 M2	INA-RT MI MIII	FP303		
AUA112B	TRU	5SC4NRNAAA	XXXXXXX	363-005-158								X
AUA114	CFU	5SCB4B0CAA	106018088	363-005-228	X	X	X	X	X	X	X	X
AUA115	LFU	5SCB5B0CAA	106018096	363-005-229	X	X	X	X	X	X	X	X
AUA402	A/FCU	5SCF301CAA	106268477	363-005-265			X	X	X			
AUB2B	CTU	5SCD101BXX	104375563	363-005-198		X						
AUB3B	AIU	5SCD30FBAB	106430127	363-005-197		X						
AUB4	ASU	5SCSC00BXX	103841284	363-005-189		X						
AUB5	CTU	5SCD110BXX	103841292	363-005-200		X						
AUB6	ADU	5SCS900BXX	103841300	363-005-186		X						
AUB22	CTU	5SCDC01BXX	103841185	363-005-199	X		X	X	X	X	X	X
AUB24	ADU	5SCSB00BXX	103841201	363-005-185	X							
AUB25	CTU	5SCD210BXX	103841219	363-005-201	X		X	X	X	X	X	X
AUB26	ADU	5SCSA00BXX	103841227	363-005-187			X					
AUB27B	ADU	5SPQABMAAA	106894116	363-005-190	X			X	X	X	X	X
AUG1	PRU	5SCB900GXX	104032727	363-005-240	X		X	X	X			
AUG2	RSU	5SCBA30GXX	104032743	363-005-241	X		X	X	X	X	X	
AUG3	RCU	5SCBM00GXX	104032750	363-005-242	X		X	X	X	X	X	
AUG4	BIU	5SPQ10PAAB	104032768	363-005-243	X		X	X	X	X	X	
AUG11	BFU	5SCB3B0HAA	106193485	363-005-230	X		X	X	X	X	X	
CS787B540	Rectifier	PWPQ88CAAE	105571590	363-005-227	X		X	X	X	X	X	
ED-7C613-30 G2	LDU	5SCB210AAA	600423198	363-005-222	X		X	X	X	X	X	
ED-7C613-30 G3	LDU	5SCB10AAAA	601251259	363-005-222	X		X	X	X	X	X	

See footnote at end of table.

(Continued on next page)

Common Circuit Packs Ordering Information (Continued)

Common circuit packs ordering table (continued)

Common Unit Code	Common Unit Feature Description	COMMON LANGUAGE CLEI Code	Comcode	Data Sheet	Feature Package					
					B RT	C COT RT	FPB/SS M1 M2	INA-RT MI MIII	FP303	
MC97755A1 I2	BCU	5SCSF67CXX	105517510	363-005-180		X				
MC97756A1 I2	BCU	5SCSG67CXX	105517528	363-005-181			X			
MC97769A1 I1	BCU	5SXTA10BXX	105585368	363-005-182					X	X
MC97776A1B	BCU	5SPQABTAAA	106972482	363-005-173	X		X	X	X	
MC97777A1	BCU	5SPQABAAAA	106499635	363-005-195						X
MC97779A1 I1	BCU	5STXA04BAA	106486087	363-005-171	Used with FPF (RT), supports SLC-2000 MSDT					
MC97796A1	BCU	5SPQADZAAA	107860751	363-005-257						X
3B1	Ringling Generator	N/A	105727838	363-005-223	X		X	X	X	X
3C1	Ringling Generator	5SCB644DAD	105727846	363-005-226	X		X	X	X	X
3H1 S1:2	Ringling Generator	5SCBPE0DAB	106397888	363-005-244	X		X	X	X	X
47B	Test Extender	5STE240BAA	104435953	363-005-237	X	X	X	X	X	X
52A	CU Test Extender	5STE430CAA	104412911	363-005-235	X	X	X	X	X	X
336A1	Rectifier	5SCB723EAC	105701726	363-005-220	X		X	X	X	X
337A1	Battery Charger	5SCB804FXX	105701734	363-005-221	X		X	X	X	X
505A	Line Loss Measg Adptr	5SCSL03EXX	105191985	363-005-234	X	X	X	X	X	X
950A	Test Set	5STEA00DAB	105560627	363-005-238				X	X	X
993A	TRU Connector Assembly	—	106196215	—						X

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XTC Circuit Packs Ordering Information

XTC circuit packs ordering table

The following table provides ordering information peculiar to the *SLC* Series 5 Carrier System extended test controller (XTC) circuit packs.

XTC Unit Code	Unit Feature Description	COMMON LANGUAGE* CLEI Code	Comcode	Data Sheet
AUB60	XPCU	5SXT100AXX	104044219	363-005-246
AUB62	XADU	5SXT201AAB	104044235	363-005-248
AUB63B	XDLU	5SXT320AXX	104436936	363-005-255
AUB66	XFOU	5SXT600AAB	104044276	363-005-251
AUB67	XTUC	5SXT700AAB	104044284	363-005-252
AUB68	XTUB	5SXT802AAB	105463442	363-005-253
AUB69	XCCU	5SXT900AXX	104044300	363-005-254
MC97745A1	XTUD	5SXT513CAB	105504765	363-005-250
MC97761A1	XCU	5SXTA20BAB	105458319	363-005-256
SM89	PGTC Power Unit	S9TP500AAA	103202933	N/A
SM90	PGTC Fan Out Ext.	S9TP300AAA	103202941	N/A
SM94C	PGTC Trunk Unit	S9TP8B2AXX	103799037	N/A
SM593	CEU	5SXTD00AXX	104199971	N/A

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COT Frames and Associated Equipment Ordering Information

COT frames and associated equipment ordering table

The following table provides ordering information peculiar to the SLC Series 5 Carrier System COT frames and associated equipment.

Equipment Code	Frame Size	Comcode	COMMON LANGUAGE* CLEI Code	Comments
J1C141AC-1, L1, 2		601245269	N/A	FL & OW panel
J1C142A1, L1		600209498	S9TC100A	PGTC Control Shelf
J1C142A1, L2		600209506	S9TC200A	PGTC Expansion Shelf
J1C142A1, L4		601101074		PGTC Expansion Shelf Mod Kit
J1C182D-1, L1	11' 6"	601164833	5SBCA12	Equipped with (6) J1C182AD-1 DCBs. Not arranged to accept a writing shelf or FL & OW panels.
J1C182D-1, L2	11' 6"	601164841	5SCB12	Equipped with (5) J1C182AD-1 DCBs and arranged for one FL & OW panel or writing shelf.
J1C182D-1, L10	11' 6"	601395726	5SBCL30A	Equipped with (1) J1C182AD-1 DCB and arranged to accept a writing shelf or FL & OW panels.
J1C182E-1, L1	9' 0"	601164858	5SBCC12	Equipped with (4) J1C182AD-1 DCBs and arranged for one FL & OW panel or writing shelf.
J1C182E-1, L6	9' 0"	601395734	5SBCN30A	Equipped with (1) J1C182AD-1 DCB and arranged to accept a writing shelf or FL & OW panels.
J1C182F-1, L1	7' 0"	601164874	5SBCE12	Equipped with (3) J1C182AD-1 DCBs and arranged for one FL & OW panel or writing shelf.
J1C182F-1, L9	7' 0"	601395734	5SBCN30A	Equipped with (1) J1C182AD-1 DCB and arranged to accept a writing shelf or FL & OW panels.
J1C182AD-1, L1		601232457	5SMCA22	For spare or replacement
J1C182XA1, L1		601067259	5SMX100A	XTC Control Shelf
J1C182XA1, L2		601124811	5SMX200A	XTC Expansion Shelf
J1C182XA1, L3		601211394	5SMX300A	XTC Expansion Shelf
ED-2C374-31, G2, A		600423727	T1FLC30	FL Control Unit for FL & OW panel

See footnote at end of table.

(Continued on next page)

COT Frames and Associated Equipment Ordering Information (Continued)

COT frames and
 associated
 equipment
 ordering table
 (continued)

Equipment Code	Frame Size	Comcode	COMMON LANGUAGE CLEI Code	Comments
ED-3C355-70, G1		600118285	N/A	Writing Shelf
ED-3C556-30, G3		600207989	T1OWH00B	Tel Set & OW PWB
ED-3C557-30, G1		600433775	T1OWC00B	T1C Digital Line Mult PWB
ED-3C557-30, G2		600433791	T1OWD00B	T1C Digital Line Bridging PWB
ED-7C603-30, G5		N/A	N/A	Heat Baffle (one fuse)
ED-7C603-30, G6		N/A	N/A	Heat Baffle (bay alarms)
ED-7C603-30, G7		N/A	N/A	Heat Baffle (two fuses)
ED-7C603-30, G8		N/A	N/A	Heat Baffle (five fuses)
N/A		846154714	N/A	Baffle Cover Assembly
ED-7C700-20, G1		601245269	N/A	E&M Lead Applique Cable

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RT Frames and Associated Equipment Ordering Information

RT frames and associated equipment ordering table

The following table provides ordering information peculiar to the *SLC* Series 5 Carrier System RT frames and associated equipment.

Equipment Code	Comcode	COMMON LANGUAGE* CLEI Code	Comments
ED-7C693-30, G6	601217060	N/A	Kit of Parts for Digital Connectivity
ED-8C500-50, G5	601019458	N/A	7 Ft. Unequipped Framework
IR-30	406382754	N/A	RT Battery, 12V 28AH (Constant Current)
IR-30C	406456707	N/A	RT Battery, 12V 28AH (Constant Voltage/Current)
IR-40	406382739	N/A	RT Battery, 12V 36AH (Constant Current)
J1C182AE-1, L1 <i>Rated DA Eff. 6/1/91</i>	601164866	5SMRA22	RT DCB Without E&M Leads
J1C182AE-1, L3	601286214	5SMRA43B	RT DCB Without E&M Leads, with Enhanced EMC
J1C182AF-1, L3	601286222	5SMRB43B	RT DCB with E&M Leads, with Enhanced EMC
J1C182BA-1, L1 <i>Rated DA Eff. 7/8/91</i>	600371256	N/A	Power Shelf
J1C182BA-1, L3	601292808	N/A	Power Shelf
J1C182BB-1, L1	601068109	N/A	RT Bulk Power Shelf (Used with 7 Ft. bay)
J1C182BC-1, L1	601244437	N/A	RT Bulk Ringing Shelf
J1C182BD-1, L1	601329964	N/A	RT Bulk Power Shelf (Used with 80A Cabinet)
KS-21906, L4	402269583	S9RT600	RT Batteries, 12V 25AH (Gates six pack)

See footnotes at end of table.

(Continued on next page)

RT Frames and Associated Equipment Ordering Information (Continued)

RT frames and
 associated
 equipment
 ordering table
 (continued)

Equipment Code	Comcode	COMMON LANGUAGE CLEI Code	Comments
2A Fan Unit [†]	104028758	N/A	RT Cooling Fan
2B Fan Unit [‡]	105550420	N/A	RT Cooling Fan
2C Fan Unit [‡]	106382336	N/A	RT Cooling Fan
3B1EW Protector	104410147	N/A	Black
3B3EW Protector	104410162	N/A	Red
3C1EW Protector	104410188	N/A	Black with test access
3C3EW Protector	104410196	N/A	Red with test access
181A	104028733	N/A	Apparatus Mounting with Battery Heater
181B	105661524	N/A	Apparatus Mounting Without Battery Heater
197A	103655858	S9TE610EAA	Battery Load Test Set

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[†] The 2A fan unit will be rated Discontinued Availability (DA) upon customer acceptance of the 2C fan unit.

[‡] Do not mix 2B fan units with 2A (or 2C) fan units within the same cabinet. Consult your local Lucent Technologies Account Representative or 363-205-000 if you are unsure which fan unit to order.

RT Cabinets and Enclosures Ordering Information

RT cabinets and enclosures ordering table

The following table provides ordering information peculiar to the *SLC* Series 5 Carrier System RT cabinets and enclosures.

Description	Order Wording	Group Numbers	Comcode	Cabinet/Enclosure Powering
51A Cabinet	ED-7C601-30	G1 Thru G116	N/A	Distributed
80A Cabinet	ED-7C711-30	G1 Thru G319	N/A	Bulk
80D Cabinet	ED-7C621-30	G1 Thru G196	N/A	Distributed
80D Cabinet	ED-7C716-30	G1 Thru G197	N/A	Bulk
80E Cabinet	ED-7C695-30	G1 Thru G127	N/A	Distributed
80E Cabinet	ED-7C703-30	G1 Thru G197	N/A	Bulk
80E Cabinet (w/FTTH Feature)	ED-7C707-30	G1 Thru G93	N/A	Bulk
90A Cabinet	ED-7C699-30	G1 Thru G143	N/A	Distributed
900A1 Closure	N/A	N/A	104434873	120 V AC
900A2 Closure	N/A	N/A	106076094	-148 V DC
900A3 Closure	N/A	N/A	106231889	-148 V DC
Concrete Hut	ED-7C630-30	G1 Thru G40	N/A	Distributed
Concrete Hut	ED-7C681-30	G1 Thru G68	N/A	Bulk
16-Ft. CEV Platform	ED-7C631-30	G1 Thru G40	N/A	Distributed
16-Ft. CEV Platform	ED-7C682-30	G1 Thru G68	N/A	Bulk
24-Ft. CEV Platform	ED-7C632-30	G1 Thru G40	N/A	Distributed
24-Ft. CEV Platform	ED-7C683-30	G1 Thru G95	N/A	Bulk
Electronic Equipment Enclosure	ED-7C633-30	G1 Thru G40	N/A	Distributed
Electronic Equipment Enclosure	ED-7C684-30	G1 Thru G68	N/A	Bulk
Pedestal DT Closure	ED-1T283-30	G1 Thru G22	N/A	120 V AC or -48 V DC

Discontinued Availability Circuit Packs

Discontinued availability circuit packs table

The following table provides a list of *SLC* Series 5 Carrier System circuit packs that have rated discontinued availability (DA).

Circuit Pack Code	Circuit Pack Feature Description	COMMON LANGUAGE* CLEI Code	Comcode	Data Sheet	Replacement Code
AUA3	OTU	5SCS600AXX	103840468	363-005-202	AUA3 S2
AUA11	PCU	5SCD400AXX	103840260	363-005-203	AUA11B
AUA11B	PCU	5SCD402AXX	104384359	363-005-203	AUA11C
AUA13	LSU	5SCS110AXX	103840286	363-005-166	AUA73
AUA21	TRU	5SCS300AXX	103840377	363-005-162	AUA21B
AUA22	TRU	5SCSM00AXX	103840385	363-005-163	AUA22B
AUA25 S1:3	M SPOTS®	5SCURP7AXX	103840419	363-005-124	AUA25B
AUA31	POTS	5SCU110AXX	103840484	363-005-101	AUA38
AUA32	SPOTS	5SCU820AXX	103840492	363-005-102	AUA39
AUA41	4-W SS	5SCU7D0AXX	103840591	363-005-105	AUA41 S4
AUA43	2-W E SPOTS	5SCU6A0AXX	103840617	363-005-107	AUA43 S2
AUA44	4-W SS	5SCU7C0AXX	103840625	363-005-108	AUA44 S3
AUA45	DRR	5SCUU05AXX	103840633	363-005-123	AUA45B
AUA51	POTS/SPOTS	5SCU150AXX	103840708	363-005-110	AUA59
AUA53 S2	Coin	5SCU262AXX	103840724	363-005-112	AUA53 S3:3
AUA55	Multiparty	5SCU570AXX	103840740	363-005-116	AUA55B
AUA58	POTS	5SCU1H0AXX	103840773	363-005-117	AUA58B
AUA59	POTS/SPOTS	5SCU1L0AXX	103840781	363-005-119	AUA150
AUA61	LIU-ORB	5SLI110AXX	103840815	363-005-136	AUA61 S2
AUA61 S2	LIU-ORB	5SLI111AXX	103840815	363-005-136	AUA61 S2:3
AUA61 S2:3	LIU-ORB	5SLI111AXX	103840815	363-005-136	AUA61B

See footnote at end of table.

(Continued on next page)

Discontinued Availability Circuit Packs (Continued)

Discontinued
availability circuit
packs table
(continued)

Circuit Pack Code	Circuit Pack Feature Description	COMMON LANGUAGE CLEI Code	Comcode	Data Sheet	Replacement Code
AUA61B	LIU-ORB	5SLI1A2AXX	104382338	363-005-144	AUA61C
AUA61C	LIU-ORB	5SLI1A3AXX	104411459	363-005-147	AUA61D
AUA62	LIU-Pwr	5SLI120AXX	103840823	363-005-137	AUA62 S2
AUA62 S2	LIU-Pwr	5SLI121AXX	103840823	363-005-137	AUA62B
AUA62B	LIU-Pwr	5SLI12AAXX	104382346	363-005-145	AUA62C
AUA62C	LIU-Pwr	5SLI123AXX	104411467	363-005-148	AUA62D
AUA64	LIU-Loop	5SLI140AXX	103840849	363-005-139	AUA64 S2
AUA64 S2	LIU-Loop	5SLI141AXX	103840849	363-005-139	AUA64B
AUA64B	LIU-Loop	5SLI14AAXX	104382353	363-005-146	AUA64C
AUA64C	LIU-Loop	5SLI143AXX	104411475	363-005-149	AUA64D
AUA73 S1:2	LSU	5SCS150AXX	103840948	363-005-165	AUA73B
AUA78 S2	FLTA	5SCSJ41AXX	103840997	363-005-231	AUA78 S3
AUA105	TRU	5SPQAALAAD	104194550	363-005-167	AUA105B
AUA158	POTS	5SC1WW8AAA	106018583	363-005-303	AUA158B
AUA159	ALC POTS/SPOTS	5SC1WW9AAA	106018591	363-005-304	AUA159B
AUB1	ADU	5SCS700BXX	103841045	363-005-183	AUB6
AUB2	CTU	5SCD100BXX	103841151	363-005-198	AUB2B
AUB3	AIU	5SCD300BXX	103841268	363-005-188	AUB3B
AUB21	ADU	5SCS800BXX	103841177	363-005-184	AUB26
AUB22 S1	CTU	5SCD200BXX	103841185	363-005-199	AUB22 S2
AUB27	ADU	5SCSAA0BXX	103841235	363-005-190	AUB27B
AYB1	OU	5SCF240BXX	104432976	363-005-262	AYB1B
ED-7C613-30 G1	LDU	5SCB100AAA	600423180	363-005-222	ED-7C613-30 G3

See footnote at end of table.

(Continued on next page)

Discontinued Availability Circuit Packs (Continued)

Discontinued
availability circuit
packs table
(continued)

Circuit Pack Code	Circuit Pack Feature Description	COMMON LANGUAGE CLEI Code	Comcode	Data Sheet	Replacement Code
MC97722A1 I1	BCU	5SCSD00CXX	104215215	363-005-176	MC97722A1 I1:2
MC97722A1 I1:2	BCU	5SCSD00CXX	104215215	363-005-176	MC97722A1 I3
MC97722A1 I3	BCU	5SCSD08CXX	105520159	363-005-176	MC97755A1
MC97723A1	BCU	5SCSE00CXX	104232582	363-005-175	MC97723A1 I1:2
MC97723A1 I1:2	BCU	5SCSE00CXX	104232582	363-005-175	MC97723A1 I3
MC97723A1 I3	BCU	5SCSE08CXX	105520167	363-005-175	MC97756A1
MC97724A1 I2	BCU	5SCSH02CXX	104227038	363-005-177	MC97724A1 I2:3
MC97724A1 I2:3	BCU	5SCSH02CXX	104227038	363-005-177	MC97724A1 I4
MC97724A1 I4	BCU	5SCSH06CXX	105508279	363-005-177	MC97724A1 I5:5
MC97724A1 I5:5	BCU	5SCSH0ECAA	106039928	363-005-177	MC97776A1
MC97725A1	BCU	5SCSF00CXX	104227012	363-005-178	MC97755A1
MC97726A1	BCU	5SCSG00CXX	104227020	363-005-179	MC97756A1
MC97755A1 I1	BCU	5SCSF60CXX	105272629	363-005-180	MC97755A1 I2
MC97756A1 I1	BCU	5SCSG60CXX	105272637	363-005-181	MC97756A1 I2
MC97771A1 I1	BCU	5SPQAAKAXX	105585376	363-005-172	MC97776A1B
MC97776A1 I1	BCU	5SPQ10RAAA	106443427	363-005-173	MC97776A1B
3A S3	Ringing Generator	5SCB600DXX	104015409	363-005-216	3C S1
3C S1	Ringing Generator	5SCB640DXX	105513584	363-005-226	3C S2:2
3C S2:2	Ringing Generator	5SCB642DAA	106075138	363-005-226	3C1 S1
39E	CFU	5SCB400CXX	104014345	363-005-217	AUA114
39F	LFU	5SCB500CXX	104031612	363-005-218	AUA115
40D	BFU	5SCB300BXX	104031620	363-005-219	AUG11
47A	Test Extender	5STE210BAA	104374640	363-005-236	47B
337A	Battery Charger	5SCB800FXX	104026802	363-005-221	337A1

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Glossary

This section lists the abbreviations and acronyms used in this appendix.

A

ADU

Alarm Display Unit

A/FCU

Alarm/Fan Control Unit

AIU

Alarm Interface Unit

ALC

Automatic Loss Compensation

ASU

Alarm Suppressor Unit

B

BCU

Bank Control Unit

BFU

Bank Fuse Unit

C

CEV

Controlled Environment Vault

CEU

Circuit Enabler Unit

CFU

Channel Fuse Unit

COT

Central Office Terminal

CTU

Channel Test Unit

CU

Channel Unit

D

DCB

Dual Channel Bank

DCU

Digital Connectivity Unit

DID

Direct Inward Dialing

DRR

Dual Ringing Repeater

DT

Distant Terminal

DTM

Drop Test Module

DTU

Digital Test Unit

E

EEE

Electronic Equipment Enclosure

F

FCU

Fan Control Unit

FLTA

Fault Locating Test Adapter

FPB

Feature Package B

FPC

Feature Package C

FPF

Feature Package F

FSR

Frequency - Selective Ringing

FTTH

Fiber To The Home

Glossary

L

LDU

Load Distribution Unit

LFU

Line Fuse Unit

LIU

Line Interface Unit

LSU

Line Switch Unit

LTA

Line Test Adapter

M

MSDT

Multi-Services Distant Terminal

N

N/A

Not Applicable

NIU

Network Interface Unit

O

ORB

Office Repeater Bay

OTU

Office Timing Unit

OU

Optical Unit

P

PCU

Power Converter Unit

PGTC

Pair Gain Test Controller

POTS

Plain Old Telephone Service

PRU

Positive Ringing Unit

R

RCU

Ring Control Unit

RMU

Remote Measurement Unit

RSU

Ring Switch Unit

RT

Remote Terminal

S

SS

Special Service

T

TCU

Transcoder Unit

TRU

Transmit Receive Unit

X

XTC

Extended Test Controller

Glossary

A

ADU

Alarm Display Unit

A/FCU

Alarm/Fan Control Unit

AIU

Alarm Interface Unit

ALC

Automatic Loss Compensation

ANI

Automatic Number Identification

ARM

Access Resource Manager

ASU

Alarm Suppressor Unit

B

B8ZS

Binary Eight Zero Substitution

BCU

Bank Control Unit

BFU

Bank Fuse Unit

BP

Bulk Power

BPIL

Backplane Interface Logic

BRITE

Basic Rate Interface Transmission Extension

BRT

Business Remote Terminal

C

CEV

Controlled Environment Vault

CEU

Circuit Enabler Unit

CFU

Channel Fuse Unit

CIP

Central Interface Panel

CIU

Craft Interface Unit

CMIP

Common Management Information Protocol

CNAM

Calling Name delivery

CND

Calling Number Delivery

COP

Centralized Operations and Provisioning

COT

Central Office Terminal

CPE

Customer Premises Equipment

CSA

Carrier Serving Area

CTU

Channel Test Unit

CU

Channel Unit

D

DACS

Digital Access and Cross-connect System

DCB

Dual Channel Bank

DCS

Digital Cross-connect System

Glossary

DCLU

Digital Carrier Line Unit

DCTU

Directly Connected Test Unit

DCS

Digital Cross-Connect System

DCU

Digital Connectivity Unit

DDS

Digital Data System

DID

Direct Inward Dialing

DLC

Digital Loop Carrier

DLI

Data Link Interface

DLM

Data Link Module

DPO

Dial Pulse Originate

DPT

Dial Pulse Terminate

DRR

Dual Ringing Repeater

DSL

Digital Subscriber Line

DSX

Digital Signal Cross-Connect

DT

Distant Terminal

DTM

Drop Test Module

DTU

Digital Test Unit

E

EEE

Electronic Equipment Enclosure

EOC

Embedded Operations Channel

F

FCU

Fan Control Unit

FDI

Feeder Distribution Interface

FITL

Fiber in the Loop

FL

Fault Locate

FLTA

Fault Locating Test Adapter

FPA

Feature Package A

FPB

Feature Package B

FPC

Feature Package C

FPD

Feature Package D

FPF

Feature Package

FPI

Feature Package I

FSR

Frequency - Selective Ringing

FTTH

Fiber To The Home

FXO

Foreign Exchange - Office end

FXS

Foreign Exchange - Station end

I

IDCU

Integrated Digital Carrier Unit

INA-RT

Integrated Network Access - Remote Terminal

IRU

Intelligent Reserve Unit

ISDN

Integrated Services Digital Network

L

LBRV

Low Bit Rate Voice

LDU

Load Distribution Unit

LFU

Line Fuse Unit

LIU

Line Interface Unit

LMOS

Loop Maintenance Operation System

LSU

Line Switch Unit

LTA

Line Test Adapter

LTD

Local Test Desk

LTF

Line Test Fanout

LTS

Loop Test System

M

M1

Mode 1

M2

Mode 2

MBP

Metallic Bypass Pair

MC

Maintenance Center

MDF

Main Distributing Frame

MIU

Metallic Interface Unit

MLT

Mechanized Loop Testing

MMSU

Modular Metallic Service Unit

MN

Minor

MPP

Miscellaneous Pair Panel

MSDT

Multi-Services Distant Terminal

MSU

Metallic Service Unit

MTB

Metallic Test bus

N

N/A

Not Applicable

NIU

Network Interface Unit

O

OLS

Off-Line Switching

ORB

Office Repeater Bay

OSP

Outside Plant

OTU

Office Timing Unit

OU

Optical Unit

OW

Order Wire

P

PBS

Private Branch Exchange

PC

Personal Computer

PCU

Power Converter Unit

PGTC

Pair Gain Test Controller

PLAR

Private Line Auto Ring

PMN

Power Minor

POTS

Plain Old Telephone Service

PRU

Positive Ringing Unit

R

RCU

Ring Control Unit

RHC

Regional Holding Company

RLT

Remote Loop Test

RMU

Remote Measurement Unit

RSB

Repair Service Bureau

RSU

Ring Switch Unit

RT

Remote Terminal

RTAC

Regional Technical Assistance Center

S

SAI

Serving Area Interface

SARTS

Switched Access Remote Test System

SCEC

Second Channel Error Correction

SS

Special Service

SSC

Special Service Center

SXSS

Small Cross-Section Shelf

Glossary

T

TAP

Test Access Path

TAU

Time Assignment Unit

TBCU

Test Bus Control Unit

TCU

Transcoder Unit

TMC

Timeslot Management Channel

TRU

Transmit Receive Unit

U

UVG

Universal Voice Grade

V

VF

Voice Frequency

X

XTC

Extended Test Controller

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