

**5ESS[®] SWITCHING EQUIPMENT
DIGITAL LINE TRUNK UNIT
REMOTE INTEGRATED SERVICES
LINE UNIT
CIRCUIT**

CHANGES

B. Changes in Apparatus.

- B.1 Added option 32, MC5D217A1B.
Added option 33, MC5D216A1C.
Added option 34, MC5D217A1B.
Added option 35, MC5D216A1C.

Description of Changes

- D.1 Added App Figs. 32 and 33. These are updated type 1 host (DFIH1) and remote (DFIR1) 24 channel packs.
- D.2 Added App Figs. 34 and 35. These are updated type 1 host (DFIH1) and remote (DFIR1) 24 channel packs. For use in applications that prohibit the end-user from using the 4Kb/s facility data link when extended framing is used.
- D.3 Information Notes 302 and 303 have been modified.
Information Note 313 has been modified.
Information Notes 314, 315, 316 have been added.
- D.4 FS 1 diagrams and symbol sheets have been updated to show new circuit packs.
- D.5 Block diagrams have been updated to show new circuit pack information.

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DEPT NQ9520500-HRB-GEY

**5ESS® SWITCHING EQUIPMENT
DIGITAL LINE TRUNK UNIT
REMOTE INTEGRATED SERVICES LINE UNIT
CIRCUIT**

CIRCUIT

B. Changes in Apparatus

Added 22 option MC5X408A1C.
Added 23 option MC5X405A1B.
Added 24 option MC5D221A1B.
Added 25 option MC5X406A1B.
Added 26 option MC5X407A1C.
Added 27 option MC5D216A1B.
Added 28 option TN1410.
Added 29 option TN1411.
Added 30 option TN1410.
Added 31 option TN1411.

D. Description of Changes

Added APP, FIGs. 22 - 27. These packs meet ETS/CEPT input voltage range and EMC requirements.

Added APP, FIGs 28 - 31. These are new type 3 host (DFIH3E) and remote (DFIR3E) 30 channel packs. These are applicable to International only.

Option T has been added for alarm circuit wiring needed for use with the Modular Fuse/Filter Unit (MFFU) and DFIR3E packs.

Information Notes 302, 303, and 311 have been modified. Information Note 304 has been deleted. Information Note 313 has been added.

Block diagrams have been updated to show new circuit pack information.

CAD diagrams 16, 17, and 18 have been added.

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DEPT 55534-HRB-AAF

CIRCUIT DESCRIPTION

CD-5D204-01
ISSUE 1
APPENDIX 2B
DWG ISSUE 3B
DISTN CODE BT13

5ESS® SWITCHING EQUIPMENT
DIGITAL LINE TRUNK UNIT
REMOTE INTEGRATED SERVICES LINE UNIT
CIRCUIT

CHANGES

B. Changes in Apparatus

- B.1 Added 17 option MC5X408A1B.
- Added 18 option MC5X407A1B.
- Added 19 option MC5D218A1B.
- Added 20 option MC5D219A1B.
- Added 21 option SN730.

D. Description of Changes

- D.1 Added option 17 MC5X408A1B TN1312B, option 18 MC5X407A1B, TN1310B option 19 MC5D218A1B TN1309B, option 20 MC5D219A1B TN1311B, and option 21 SN730 circuit packs to the drawing. FS1 Figure, App. Figure, and block diagrams have been updated to reflect the current information. Information notes 302 and 304 have been updated, and notes 311 and 312 have been added to reflect new information.

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SESS® SWITCHING EQUIPMENT
DIGITAL LINE TRUNK UNIT
REMOTE INTEGRATED SERVICE LINE UNIT
CIRCUIT

CHANGES

D. Description of Changes

D.1 Option U has been added for 75-ohm coaxial cable with both input and output shields not grounded. This is applicable only to export applications.

D.2 AT&T cable code 1249 has been added as a cost-reduced and size-reduced alternative to the present ABAM or 600-type cables used for T1 office interconnections. The 1249 cable will help alleviate buildup of cable at the DSX-1 cross-connect. The cable may be used except for PBX applications or where the distance to the DSX-1 exceeds 450 feet.

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**5ESS* SWITCHING EQUIPMENT
DIGITAL LINE TRUNK UNIT
REMOTE INTEGRATED SERVICES LINE UNIT
CIRCUIT**

SECTION I - GENERAL DESCRIPTION1. PURPOSE OF CIRCUIT

1.01 The digital line and trunk unit (DLTU-R) for the remote integrated services line unit (RISLU) is a peripheral of the 5ESS* switch.

2. GENERAL DESCRIPTION OF OPERATION

2.01 The host units, called the DLTU-RH for 24-channel T1 line systems and the DLTU-RHE for 30+2 channel line systems, reside at the host 5ESS switch.

2.02 The remote units, called the DLTU-RR for 24-channel line systems and the DLTU-RRE for 30+2 channel line systems, reside at the remote site along with the remoted ISLU.

2.03 A host unit, together with a remote unit, provides the capability for remoting the ISLU.

SECTION II - DETAILED DESCRIPTION1. HOST UNIT - DLTU-RH

1.01 The DLTU-RH consists of one 8-inch high shelf; one power start pack (SN346B); one equalizer pack (SN549-SN533); two or four DFI-H1 packs (TN1306); and zero to twelve DFI-H2 packs (TN1311).

1.02 Each DFI terminates one 1544 kbps, 24-channel facility.

1.03 A DFI-H1 connects to the 5ESS switching module processor (SMP) through two peripheral interface control buses (PICBs), and to the time slot interchanger unit (TSIU) through one peripheral interface data bus (PIDB). Each DFI-H2 connects to one PICB and one PIDB.

2. HOST UNIT - DLTU-RHE

2.01 The DLTU-RHE is similar to the DLTU-RH, except that it does not contain the equalizer pack, and each DFI terminates one 2048-kbps, 30+2 channel facility.

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DEPT 54313-AMW-JRC

2.02 The DFIs used are the DFI-H1E (TN1307) and DFI-H2E (TN1312).

3. REMOTE UNIT - DLTU-RR

3.01 The DLTU-RR consists of one 8-inch high shelf; one power start pack (SN346B); one equalizer pack (SN549-SN533); two DFI-R1 packs (TN1304); two remote clock packs (TN1319); and zero to ten DFI-R2 packs (TN1309).

3.02 Each DFI terminates one 1544-kbps, 24-channel facility.

3.03 The DFI-R1 recreates the PICB that normally connects the SMP to the ISLU; therefore, there is a PICB from each DFI-R1 to the ISLU. In addition, it has two PICBs to control the two RCLKs. Each DFI-R1 and DFI-R2 has one PIDB going to the ISLU.

3.04 Each DFI-R1 monitors RISLU unit alarms (fuse, fan, power, battery). In addition, the second DFI-R1 (at location 032) provides a timing bus to side 1 of each service group on the ISLU common data (CD) packs.

4. REMOTE UNIT - DLTU-RRE

4.01 The DLTU-RRE is similar to the DLTU-RR, except that it does not contain the equalizer pack and each DFI terminates one 2048-kbps, 30+2 channel facility.

4.02 The DFIs used are the DFI-R1E (TN1305) and DFI-R2E (TN1310).

SECTION III - REFERENCE DATA1. WORKING LIMITS

1.01 None.

2. FUNCTIONAL DESIGNATIONS

2.01 None.

3. FUNCTIONS

3.01 Provides the capability for remoting the integrated services line unit.

4. CONNECTING CIRCUITS

4.01 None.

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