**Lucent Technologies**
Bell Labs Innovations

# SLC® 240 Network Access System

## XAUA455 Quad Channel Unit—

## Features/Functions

- Conforms to appropriate industry standards

- Automatic level compensation (ALC)

- Supports CLIP* services

- Faceplate test access to tip and ring for four channels

- Faceplate BUSY LEDs

- On-hook transmission (OHT)

- Enhanced inventory

- No option switches

\* Calling Line Identification Presentation.

## Description

This data sheet describes the XAUA455 Quad channel unit (CU) (COMCODE 108238056) and is intended for the end-user of the unit.

The XAUA455 Quad channel unit is designed for 2-wire, single-party direct exchange lines with loop-start and forward disconnect signaling. The unit is a current-sink circuit that provides the interface between the local exchange and the universal SLC 240 Network Access System (NAS), providing four channels of service, and is used at the exchange multiplexer (EXM) (central office end). This unit is a voice-frequency (VF) transmission channel unit having an electronic line interface circuit with 900 Ohms + 1 µ F structural and balance impedances. The transmission loss is set to 0 dB in both the transmit (A-D) and receive (D-A) directions. The XAUA455 CU enables on-hook transmission. This provides support

for calling line identification presentation (CLIP) services as specified in ETS 300-648 and ETS 300-659-1.

The digital interface is compatible with the 30-channel, 2.048 MHz clock environment. Ringing, test voltage, and battery levels on the A- and/or B-wires are detected and validated. The unit is also capable of applying remote signaling conditions, such as dial pulsing, to the A- and B-wires. The unit responds to the integrated status, inventory, test, and alarm (SITA) operation, administration, and maintenance (OA&M) package.

The unit provides four channels of service and is normally installed at the exchange multiplexer central office terminal (COT).

Figure 1 shows the faceplate diagram for the XAUA455 POTS CU. Table 1 lists the edge connections for the XAUA455 (EXM) POTS CU.

## Compatibility

The XAUA455 channel unit provides the same service capabilities as the XAUA255 CU with the additional capability to provide on-hook transmission to support CLIP.

## Specifications

For complete transmission specifications consult Chapter 5 of Lucent Technologies 363-207-011, *SLC* 240 *Network Access System Turnup and Maintenance Manual.*

# Faceplate Features

The XAUA455 quad channel unit faceplate is shown in Figure 1. The faceplate jack provides convenient test access to the tip and ring through a channel unit faceplate test cord adapter part number 400395M, available from Telecom Assistance Group, Inc., West Berlin, New Jersey; (1-800-824-7005). The following LED indicators are located on the faceplate:

**BUSY 1** (Red LED): The channel 1 is busy when lit.

**BUSY 2** (Red LED): The channel 2 is busy when lit.

**BUSY 3** (Red LED): The channel 3 is busy when lit.

**BUSY 4** (Red LED): The channel 4 is busy when lit.
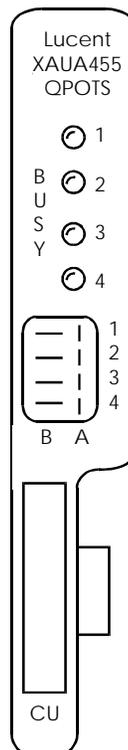


**Figure 1.**     *X*AUA455 Faceplate Diagram

**Table 1.   Edge Connections For XAUA455 Quad Channel Unit**

| Finger | Function |
|---|---|
| 1 | Ringing Ground |
| 2, 27 | Frame Ground |
| 3 | A3 (3rd channel) |
| 4 | B3 (3rd channel) |
| 5 | A4 (4th channel) |
| 6 | B4 (4th channel) |
| 7, 32 | Protect Ground |
| 8, 33 | - 48 Volts DC |
| 13, 38 | - 5 Volts DC |
| 17, 20, 42, 45, 48 | Circuit Ground |
| 25, 50 | + 5 Volts DC |
| 26 | - RNG (25 Hz) |
| 28 | A1 (1st channel) |
| 29 | B1 (1st channel) |
| 30 | A2 (2nd channel) |
| 31 | B2 (2nd channel) |

# References

The following documents provide additional information about the use of this channel unit in the *SLC* 240 Network Access System:

363-207-004    *SLC* 120/240 Network Access System
               *Integrated SITA System User's Guide*

363-207-011    *SLC* 240 Network Access System
               *Turnup and Maintenance Manual*

363-207-013    *SLC* 240 Network Access System
               *Installation Manual*

# Technical Assistance

Follow local procedures for obtaining technical assistance. Lucent Technologies also provides in-hours or emergency out-of-hours help for the *SLC* 240 Network Access System. Call the Lucent Technologies Regional Technical Assistance Center at 1 800 225 RTAC.

## Ordering Information

Additional copies of this document (363-005-415) are available from the Customer Information Center — call 1 888 582 3688.

## Comments

Comments about this document can be directed to:

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