SLC® Series 5 Carrier System

AUA77 Site Interface Unit — 5SPQ10T

This data sheet describes the AUA77 site interface unit (SIU) (COMCODE 103840989) and is intended for the end-user of the unit. The AUA77 SIU serves as the interface between the Operations Interface (OI) and the remote terminal (RT) site. The AUA77 SIU is designed to operate a local area network (LAN) at the RT site to service up to 18 LAN nodes. Each bank on the LAN utilizes the MC97775A1 bank control unit (BCU) and the AUB28 alarm display unit (ADU) which can collect alarm and inventory information from the bank and transmit provisioning information to channel units in the bank. The AUA77 SIU can compile alarm and inventory information from the banks and transmit the information to the OI using an onboard modem. Also, the AUA77 SIU is capable of receiving provisioning information from the OI and transmitting it to the correct BCU. The AUA77 SIU is used with Feature Package I (FPI).

Figure 1 is a functional block diagram of the AUA77 SIU, and Figure 2 shows components and the faceplate.

NOTE:
Place the AUA77 SIU in slot 23/24 of the A digroup. If the AUA77 SIU is installed in any other slot, the ADU CMP, MN, and NE LED indicators, and the SIU FAIL LED indicator will light.

The AUA77 SIU is connected to the LAN through the tip/ring backplane pins located at slot 12 (time slot 23) of the A digroup. It connects with the banks using a 2-wire transmission line through the MISC2 pins on the backplane at the ADU. The AUA77 SIU operates the LAN at a 64 kb/s rate. The maximum total length of the transmission line is 200 feet.

The AUA77 SIU contains a standard POTS channel unit interface to the backplane. The AUA77 SIU utilizes a modem to transmit information at a 2400 baud rate. The modem is also capable of fallback 1200-baud and 300-baud transmission rates. The AUA77 SIU uses the odd time slot and has no interface to the even time slot (time slot 24) which remains available for another application.

The following LED indicators and toggle switch are located on the faceplate of the AUA77 SIU.

NOTE:
When first installed, the AUA77 SIU performs a built-in microprocessor test which tests both processors, random access memory (RAM), and read-only memory (ROM). The test causes the SIU FAIL LED to momentarily light for about 5 seconds.

SIU FAIL (Red LED): When lighted, this LED indicates that the onboard DC to DC power supply has failed or that the AUA77 SIU has failed self-test.

LAN FAIL (Red LED): When lighted, this LED indicates that the LAN transmission wire has a bad or wrongly wired connection.

BUSY (Green LED): When lighted, this LED indicates that the AUA77 SIU is on line with the Operations Interface (OI) processor.

LAN TEST (Faceplate-mounted toggle switch): When toggled to the ON position, the LAN LEDs of all ADUs connected to the AUA77 SIU will blink.

The board-mounted option switch of the AUA77 SIU provides the following functions.

S2 (4-position board-mounted option switch).

- Position 1: Set toward the *down* (ON) position. For future use.
- Position 2: Set toward the *down* (ON) position. For future use.
- Position 3: Not used — spare.
- Position 4: When in the *up* (ON) position, this switch is in its normal operations position. When in the down position, this switch resets the SIU and writes a default login and password to the electrically erasable programmable read only memory (EEPROM) to allow for OIP initial contact. When the board is first plugged in with this switch active, all three faceplate-mounted LEDs light while writing to the EEPROM. The LEDs then flash to indicate that the procedure is completed.

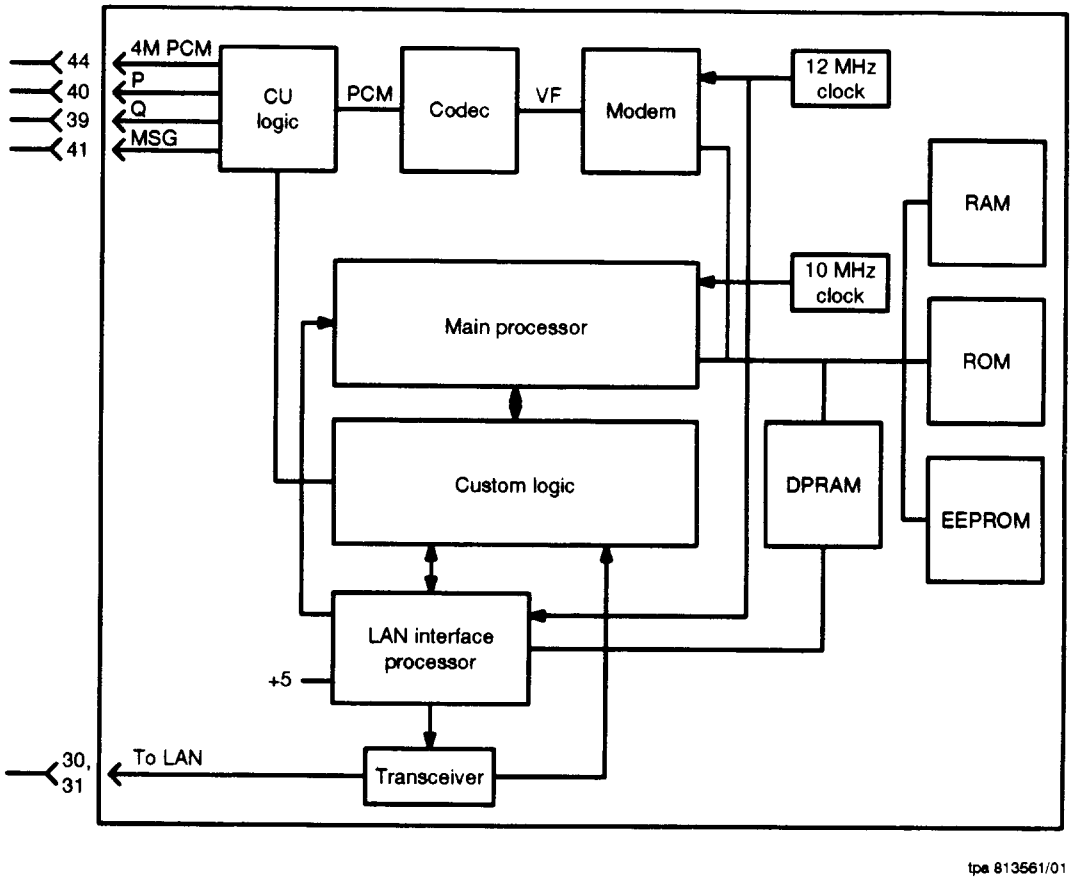

Figure 1. AUA77 SIU Block Diagram

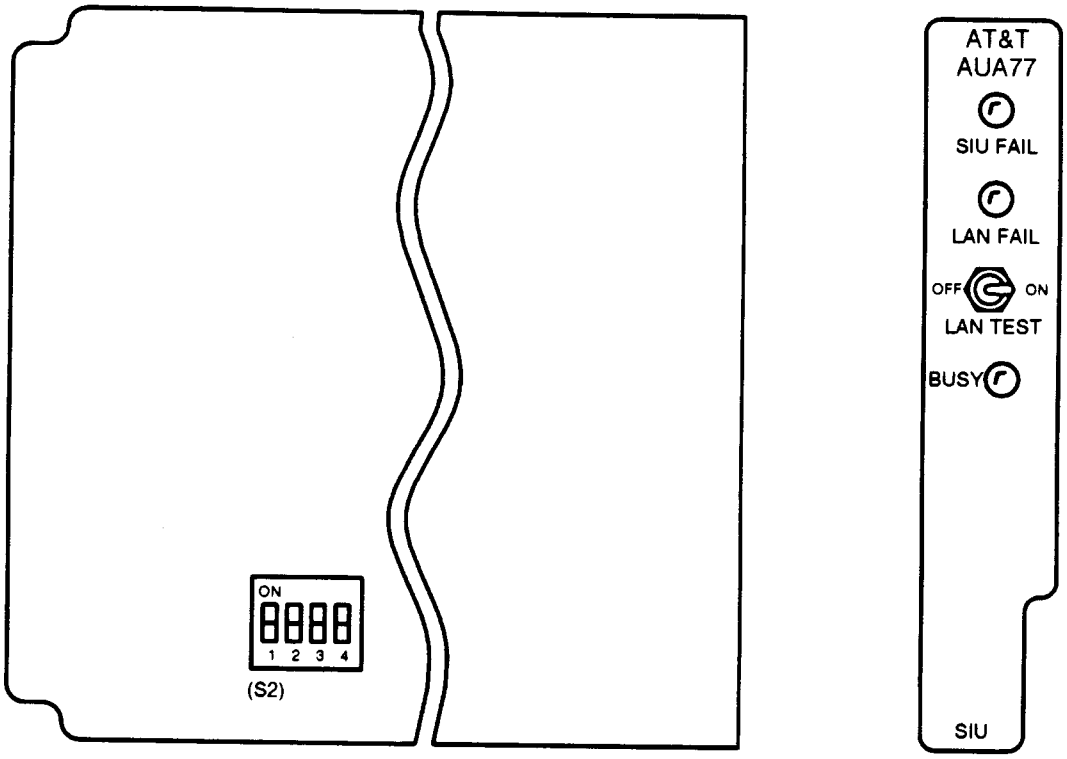

Figure 2. AUA77 SIU Components and Faceplate

Follow local procedures for obtaining technical assistance. AT&T also provides in-hours or emergency out-of-hours help for the *SLC* Series 5 Carrier System. Call the AT&T Regional Technical Assistance Center at **1-800-225-RTAC.**

Additional copies of this document (AT&T 363-005-156) are available from the Customer Information Center — call 1-800-432-6600.

Comments about this document can be directed to:

AT&T
Document Development Organization
Attention: Publishing Services Department
2400 Reynolda Road
Winston-Salem, NC 27106