



SLC[®] Series 5 Carrier System

AUA74 Line Switch Unit DS1 Interface — 5SPQABC

This data sheet describes the AUA74 line switch unit (LSU) (COMCODE 103840955) and is intended for the end-user of the unit. The AUA74 LSU is used in the SLC[®] Series 5 Carrier System Feature Package 303 (FP303) remote terminal (RT). The AUA74 LSU provides an optional 2/3/4:1 facility line switching capability for the DS1 line interface units (LIUs) (C series and later) and supports the facility protection line switching requirements for Bellcore TR-303*.

Figure 1 shows the faceplate of the AUA74 LSU.

In FP303, the protection switch mechanism is controlled by codes transmitted and received over the bit-oriented extended superframe/new data link (ESF/ndl) of the protection DS1. The AUA74 LSU detects these codes and forwards them to the bank controller (BC) for comparison to locally-generated or craft-initiated protection switch requests. The BC decides whether to initiate a protection switch. Under command of the BC, the AUA74 LSU places the data, synchronization, and clock signals of a DS1 onto the protection DS1.

The AUA74 LSU supports bipolar with eight zeros substitution (B8ZS) line coding.

* Bellcore Technical Reference TR-NWT-000303 Issue 2, December 1992, and all Supplements, *Integrated Digital Loop Carrier System Generic Requirements, Objectives, and Interface*.

The following signals are in the transmit path [transmit/receive unit (TRU) to LSU to protection LIU]:

- Selected 4.096-MHz clock
- Selected superframe synchronization
- Selected transmit pulse code modulation (PCM)
- Selected transmit 4-kHz reference clock.

The following signals are in the receive path (protection LIU to LSU to TRU):

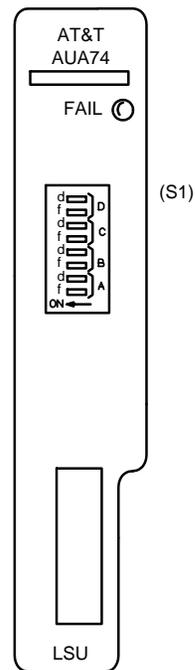
- Protection PCM to both TRUs
- Protection receive 4-kHz reference clock to both TRUs.

The following LED indicator and DIP switches are located on the faceplate of the LSU.

FAIL (Red LED): When lighted, this LED indicates that a failure has been sectionalized to this circuit pack.

The AUA74 LSU provides craft personnel access using the DIP switches located on the faceplate (Figure 1). The following list describes the switches.

- **d D.** When ON, denies access of the LIU D DS1 to the protection line.
- **f D.** When ON, forces the LIU D DS1 onto the protection line.
- **d C.** When ON, denies access of the LIU C DS1 to the protection line.
- **f C.** When ON, forces the LIU C DS1 onto the protection line.
- **d B.** When ON, denies access of the LIU B DS1 to the protection line.
- **f B.** When ON, forces the LIU B DS1 onto the protection line.
- **d A.** When ON, denies access of the LIU A DS1 to the protection line.
- **f A.** When ON, forces the LIU A DS1 onto the protection line.



tpa 813554/01

Figure 1. AUA74 LSU 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 363-005-196) are available from the Customer Information Center — call 1-800-432-6600.

Comments about this document can be directed to:

AT&T
Customer Information Development and Business Translations Organization
Attention: Publishing Services Department
2400 Reynolda Road
Winston-Salem, NC 27106

Copyright © 1993 AT&T
All Rights Reserved
Printed in U.S.A.