

AUB62 XTC ALARM DISPLAY UNIT

DATA SHEET

SLC[®] SERIES 5 CARRIER SYSTEM

The AUB62 alarm display unit (XADU) is used in the extended test controller (XTC). The AUB62 design is based on an on-board microcomputer that is controlled by the MC97734-01, the XTC controller unit (XCU). The following functions are provided via the 62-lead interface to the AUB62:

- Central office (CO) alarm panel interface and alarm cut-off
- SLC 96 or SLC Series Feature Package A and B carrier system interface. (The Feature Package C interface is provided via the AUB66 Fan-Out Unit.)
- Trunk card interface
- Central office terminal (COT) channel unit emulator (CUE) for providing test access on nonlocally switched circuits to the Mechanized Loop Testing System-2 (MLT-2)
- Serial data link to MC97734-01 (XCU)
- MC97734-01 (XCU) alarm interface
- (Other units except XCU) alarm monitor.

A detailed description of the above interface functions follows:

The CO alarm panel interface consists of 11 leads, 1 momentary switch, and 1 red LED. The AUB62 provides three sets of closures for the CO alarms, two sets of closures for system identification, and one set of closures to the XTC fuse unit. Also included are remote and local alarm cut-off (ACO) capabilities.

The SLC 96 or SLC Series 5 Feature Package A carrier system interface consists of 20 leads. This interface performs the handshake and test signaling with the carrier system for pair gain test controller (PGTC) type tests.

The PGTC trunk card interface consists of 11 leads. This interface performs signaling with the trunk cards for PGTC type tests.

The CUE interface consists of two leads from the CO switch to provide test access on nonlocally switched circuits to MLT-2. The CUE performs the test setup handshake normally performed by the COT channel units for locally switched circuits.

The serial data link to the MC97734-01 consists of six leads, but only three different signals. The three signals allow the MC97734-01 to enable and provide bidirectional communication with the AUB62.

The MC97734-01 alarm interface consists of three leads. This interface monitors the resets of the XCU and controls the red fail LED on the XCU. It also allows the XCU to control the CO alarms.

The alarm interface to other peripheral units consists of three leads. This interface filters the alarms from other XTC peripheral units and sounds the CO alarm if the duration of the XPU alarms is of sufficient length.

Figure 1 is a functional block diagram of the AUB62 XTC ADU. Figure 2 shows the faceplate and the printed wiring board option switch location.

Switches and LEDs: Four switches are used to provision the XTC. Three LEDs indicate fault conditions existing within the XTC or AUB62. Detailed description of the switches and LED functions follow.

FAIL LED: This red LED indicates that the AUB62 has failed.

LINK FAIL: This yellow LED indicates that the AUB62 has not failed but has detected a failure on one of its interfaces.

ACO LED: This red LED indicates that the XTC is in an alarm condition and that the ACO switch or remote ACO lead has been activated.

ACO Switch: When depressed, it cuts off the XTC alarm lights and the alarms to the CO alarm panel. The system identification leads are not affected.

Option Switches: Only the first switch (2P/4P) is used for multiparty service. The remainder of the

switches is not used. This switch (2P/4P) must be set (depress for function) at the time of installation. Option 4P must be provided to serve a multiparty line with full selective ringing, and option 2P is required when multiparty lines are served with ringing arrangements other than full selective ringing.

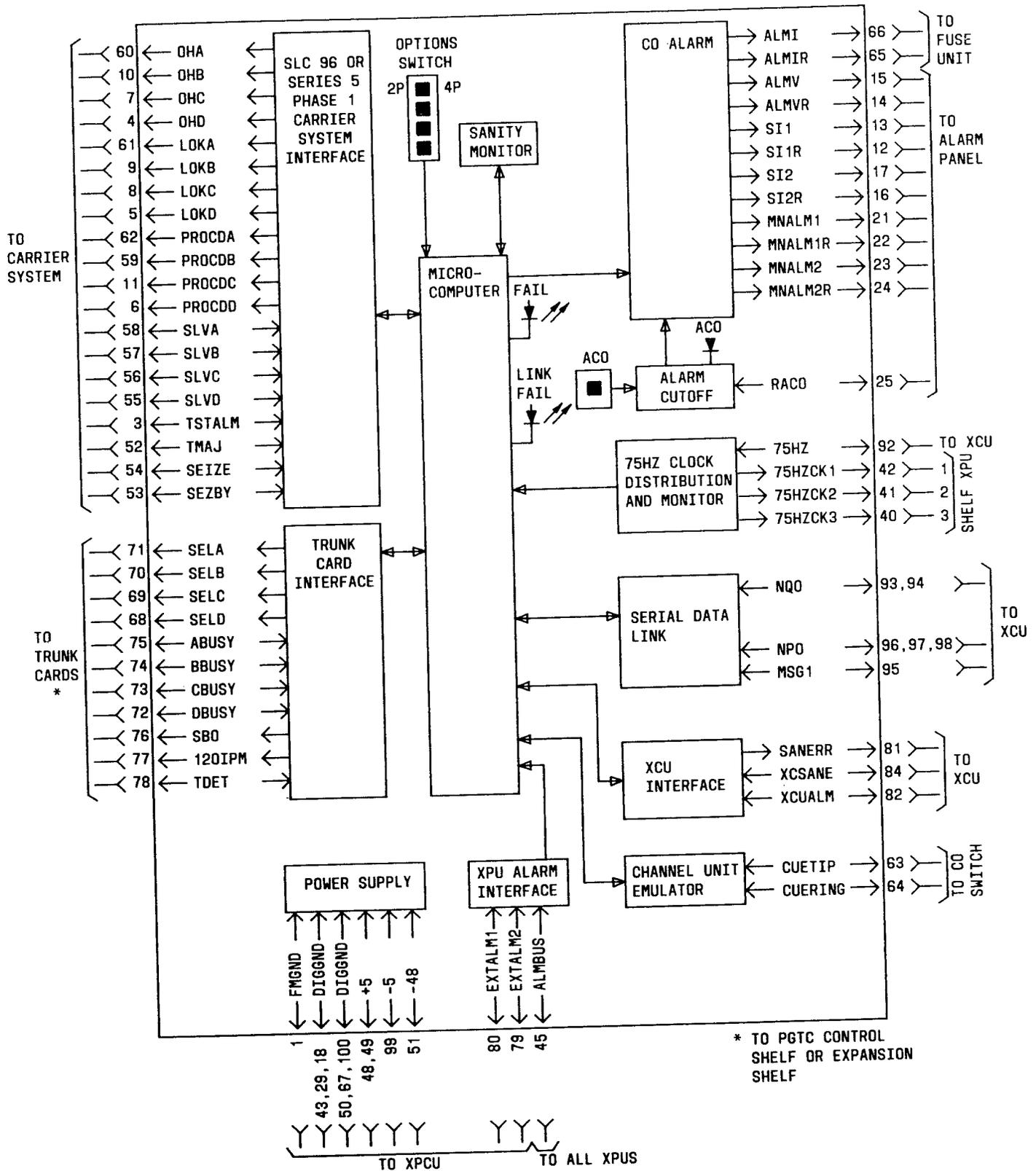


Fig. 1—AUB62 XADU Block Diagram

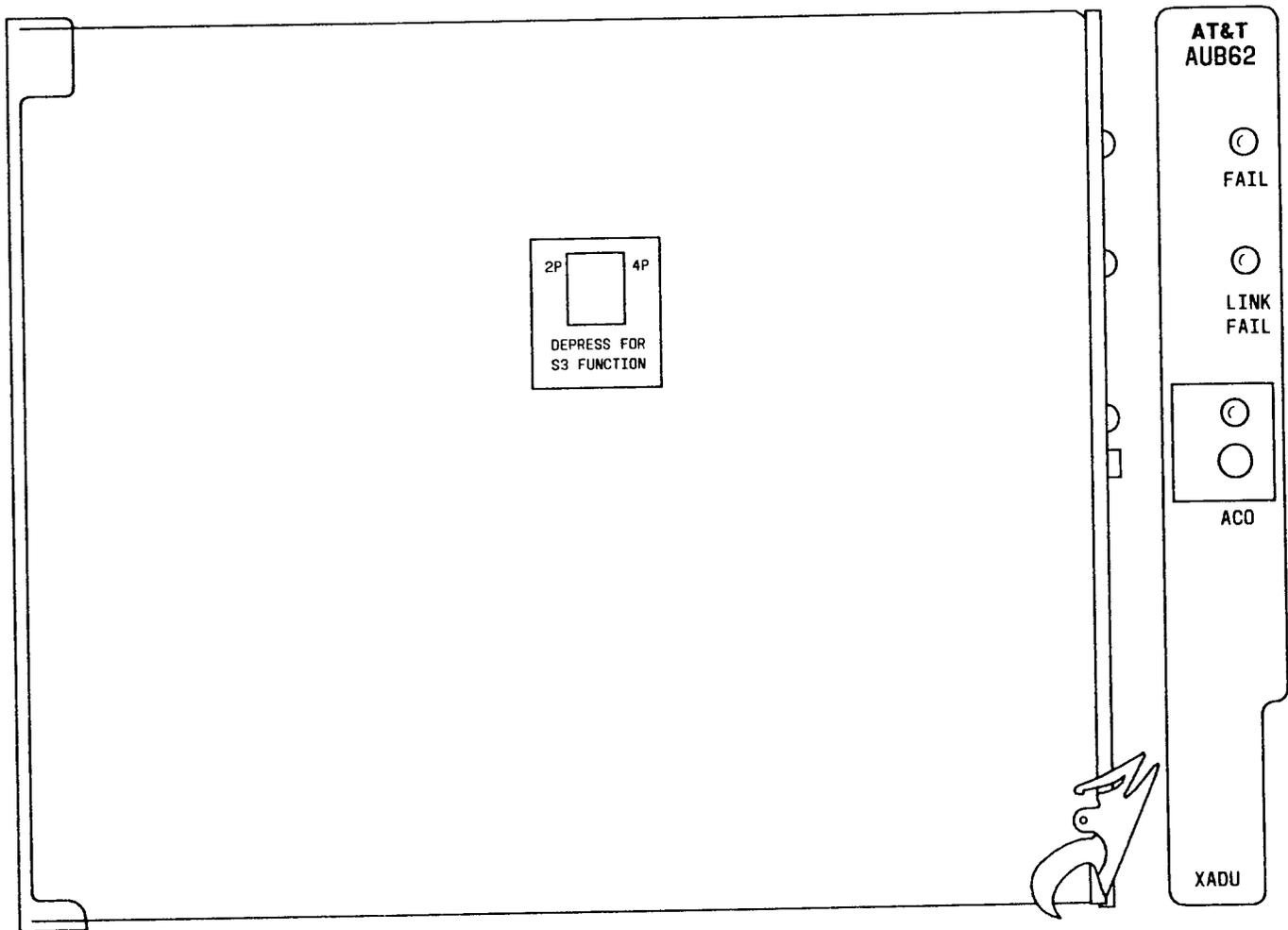


Fig. 2—AUB62 Faceplate Diagram