

AUA59 (RT) POTS/SPOTS® CHANNEL UNIT - 5SCU1L0AXX

DATA SHEET

SLC® SERIES 5 CARRIER SYSTEM

The AUA59 channel unit is designed for 2-wire POTS and SPOTS applications. It furnishes a current feed interface to the customer loop. This plug-in provides two channels of service and will always be located at the RT (remote terminal). The COT (central office terminal) end of the channel can be terminated with an AUA32 or AUA39 channel unit for SPOTS services. In addition, the AUA59 channel unit is compatible with an AUA31 or AUA38 POTS channel unit at the far end, provided only loop-start service is required. A forward disconnect feature is furnished in all these configurations.

This practice has been reissued to make minor editorial corrections.

Figure 1 is a functional block diagram of the unit and Figure 2 shows the faceplate.

The channel unit provides a voice-frequency interface with a structural impedance of 735 ohms in series with 2.15 μ F. The transmit and receive insertion losses are both 0dB. During on-hook conditions, the channel unit is not powered down. OHT (on-hook transmission) in each direction is provided where the far end is terminated with an AUA38 or where a DCLU is providing a POTS-type channel termination with OHT capability. Insertion loss of the AUA59 is nominally 2.5 dB — when the far end is terminated with an AUA38 channel unit, end-to-end insertion loss is approximately 4 dB.

The AUA59 channel unit can provide a ground-start interface to a customer PBX. The loop current varies from 30 to 20 milliamperes for loops ranging from 0 to 1500 ohms. The AUA59 may be used in MODE 96 applications since its signaling states are compatible with SLC 96 COT SPOTS (WP36) channel units. If only loop-start service is required, the AUA59 may

also be used with a SLC 96 COT POTS (WP10) channel unit.

Loop range depends upon whether the AUA59 is providing ground-start or loop-start service. In a ground-start application where the distant channel unit is a WP36, AUA32, or AUA39 (or the DCLU SPOTS equivalent) the loop is limited to CSA range for guaranteed transmission performance. In a loop-start application where the distant channel unit is a WP10, AUA31, or AUA38 (or the DCLU POTS equivalent) the loop range extends to 1500 ohms (plus telset resistance).

The AUA59 channel unit is compatible with PGTC (pair gain test controller) and XTC (extended test controller) test systems in all its configurations. There are no options or settings that need to be selected on this channel unit.

Faceplate LEDs indicate as follows:

- **ODD BUSY** (Red LED): When lighted, indicates that the odd channel is busy.
- **EVEN BUSY** (Red LED): When lighted, indicates that the even channel is busy.

The faceplate jack provides convenient test access to the tip (T) and ring (R) of both the odd (O) and even (E) channels.

Technical assistance for the SLC Series 5 system can be obtained by calling the Regional Technical Assistance Center at 1-800-225-RTAC. This telephone number is staffed 24 hours per day.

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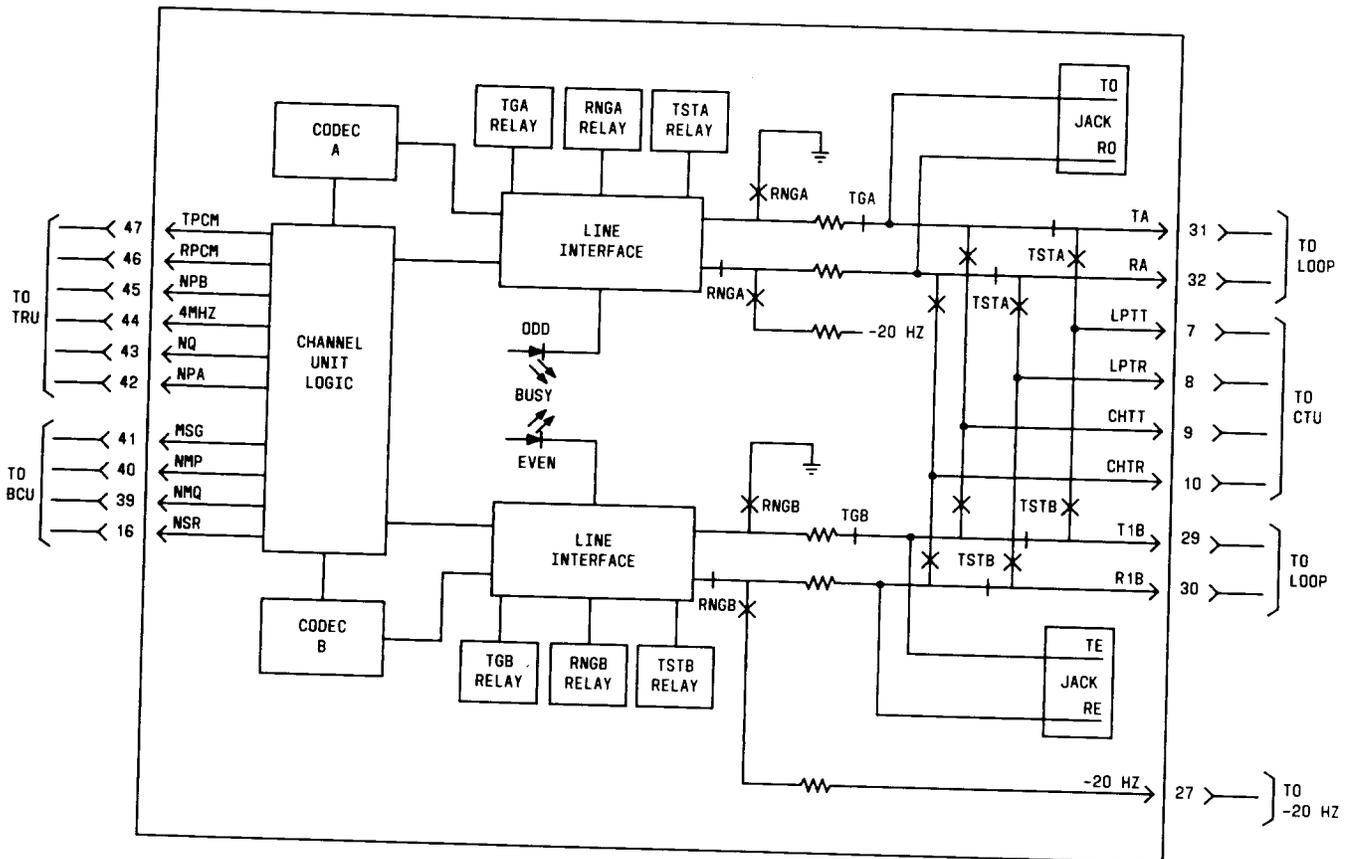


Fig. 1—AUA59 Block Diagram

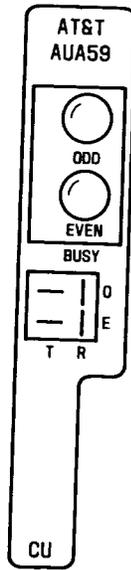


Fig. 2—AUA59 Faceplate