



SLC[®] Series 5 Carrier System

AUA25B (RT) M *SPOTS*[®] Channel Unit - 5SCURP8AXX

Data Sheet

This data sheet describes the AUA25B channel unit (CU) (COMCODE 105710289) and is intended for the end-user of the unit. The AUA25B CU is designed for 2-wire POTS and *SPOTS* channel unit applications with short loops. It is compatible with all SLC[®] Series 5 Carrier System feature packages. 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 remote terminal (RT). The central office terminal (COT) end of the channel can be terminated with an AUA32 or AUA39 *SPOTS* channel unit. In addition, the AUA25B 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 data sheet is reissued to add information about the AUA25B — the functional equivalent of the AUA25. Relative to the AUA25, the AUA25B channel unit radiates less electromagnetic interference.

Figure 1 is a functional block diagram, and Figure 2 shows the faceplate of the AUA25B.

The AUA25B provides a voice-frequency interface with a structural impedance of 600 ohms in series with 2.15 μ F. The transmit and receive insertion losses are both 2 dB. Table 1 lists the approximate distribution cable range for Centrex (5 dB design) and PBX-CO (4 dB design) applications. During on-hook conditions, the channel unit is not powered down. On-hook transmission (OHT) with an additional loss of approximately 5 dB in each direction, is possible when the far end is terminated with an AUA38 channel unit.

The AUA25B channel unit provides a ground-start interface to a customer PBX. The loop current is approximately 30 milliamperes for loops described in Table 1. The AUA25B may be used in MODE 96 applications since its signaling states are compatible with SLC 96 Carrier COT *SPOTS* (WP36) channel units. If only loop-

start service is required, the AUA25B may also be used with a SLC 96 Carrier COT POTS (WP10) channel unit.

Table 1. AUA25B Distribution Cable Range

Application	Gauge	Range (kft.)
Centrex (5 dB design)	19	12
	22	12
	24	8
	26	5.5
PBX-CO (4 dB design)	19	12
	22	8
	24	5.5
	26	3.5

The AUA25B channel unit is compatible with Pair Gain Test Controller (PGTC) and eXtended Test Controller (XTC) 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.

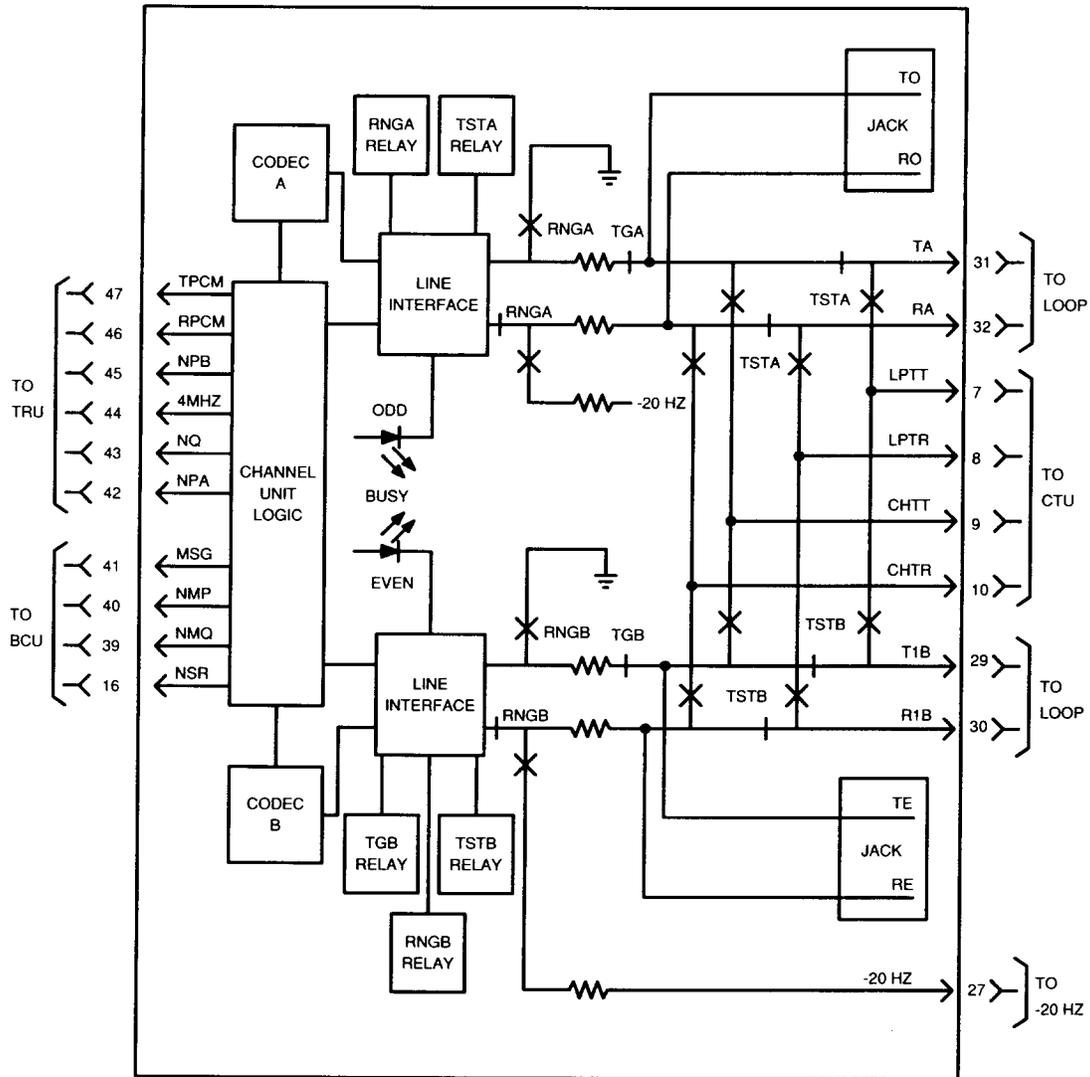


Figure 1. AUA25B Block Diagram

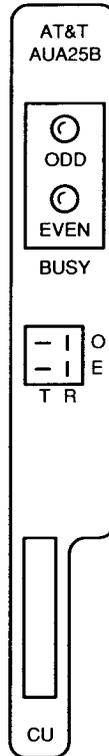


Figure 2. AUA25B Faceplate

In-hours or emergency out-of-hours technical assistance for the *SLC*[®] Series 5 Carrier System can be obtained by calling the Regional Technical Assistance Center at **1-800-225-RTAC**.

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