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## *SLC*<sup>®</sup> Series 5 Carrier System

### AUA22B (RT) Transmit/Receive Unit - 5SCSM09AXX

#### Data Sheet

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This data sheet describes the AUA22B transmit/receive unit (TRU) mode 96 (COMCODE 105710263) and is intended for the end-user of the unit. The AUA22B TRU is used in the remote terminal (RT) to provide the interface between two digroups of channel units (for example, 24 AUA58 dual-channel POTS units) and the digital facility interface [for example, two AUA64D DS1 line interface units (LIUs) and one AUA73 line switch unit (LSU)]. The AUA22B generates the D1D channel polling sequence, and is intended only for mode 96 RTs.

This data sheet is reissued to add information on the AUA22B — the functional equivalent of the AUA22. Relative to the AUA22, the AUA22B unit radiates less electromagnetic interference.

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

The AUA22B receives three 4-kHz clocks — one from each of the two LIUs with which it works and one from the LSU. The TRU automatically selects one of these clocks as a reference, and frequency locks its voltage controlled oscillator (VCXO) to that reference. The VCXO generates a 4.096-MHz clock. The AUA22B uses the VCXO output to synchronize its internal operation to the 24 channel units and the digital facility interface units that work with it. The AUA22B maintains all the plug-ins serving a 48-channel shelf of the *SLC*<sup>®</sup> Series 5 Carrier System in DS1-frame synchronism.

In the transmit direction, the AUA22B sends the D1D-sequence channel polling signals to the channel units, gets the transmit-PCM bit streams from the channel units in each digroup, and time division multiplexes the channels into a 4.096-Mb/s internal PCM format, one for each digroup. The AUA22B dual feeds the formatted signal to the main digital facility interface (for example, the AUA64D) and to the LSU (for example, the AUA73). The AUA22B also accepts a 4-kb/s data link from the bank controller unit (BCU) and inserts the information into the A

digroup. While the AUA22B is used on both the AB and CD shelves, the *SLC 96* Carrier System only transmits the data link in the A digroup — the data link input to the CD-shelf TRU is not used.

In the receive direction, the AUA22B gets 4.096-Mb/s receive-PCM inputs from both the main digital facility interface and the LSU. The AUA22B selects between these inputs based on instructions received from the BCU. The AUA22B distributes the two receive-PCM formatted signals and the channel polling control signals to the two digroups (24 channel units) under its control. The AUA22B also extracts the 4-kb/s data link from the received signal and sends it to the BCU.

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

**ON PROT** (Two Yellow LEDs): When lighted, indicates that the digroup to which the associated arrow is pointing is currently being served by the protection line.

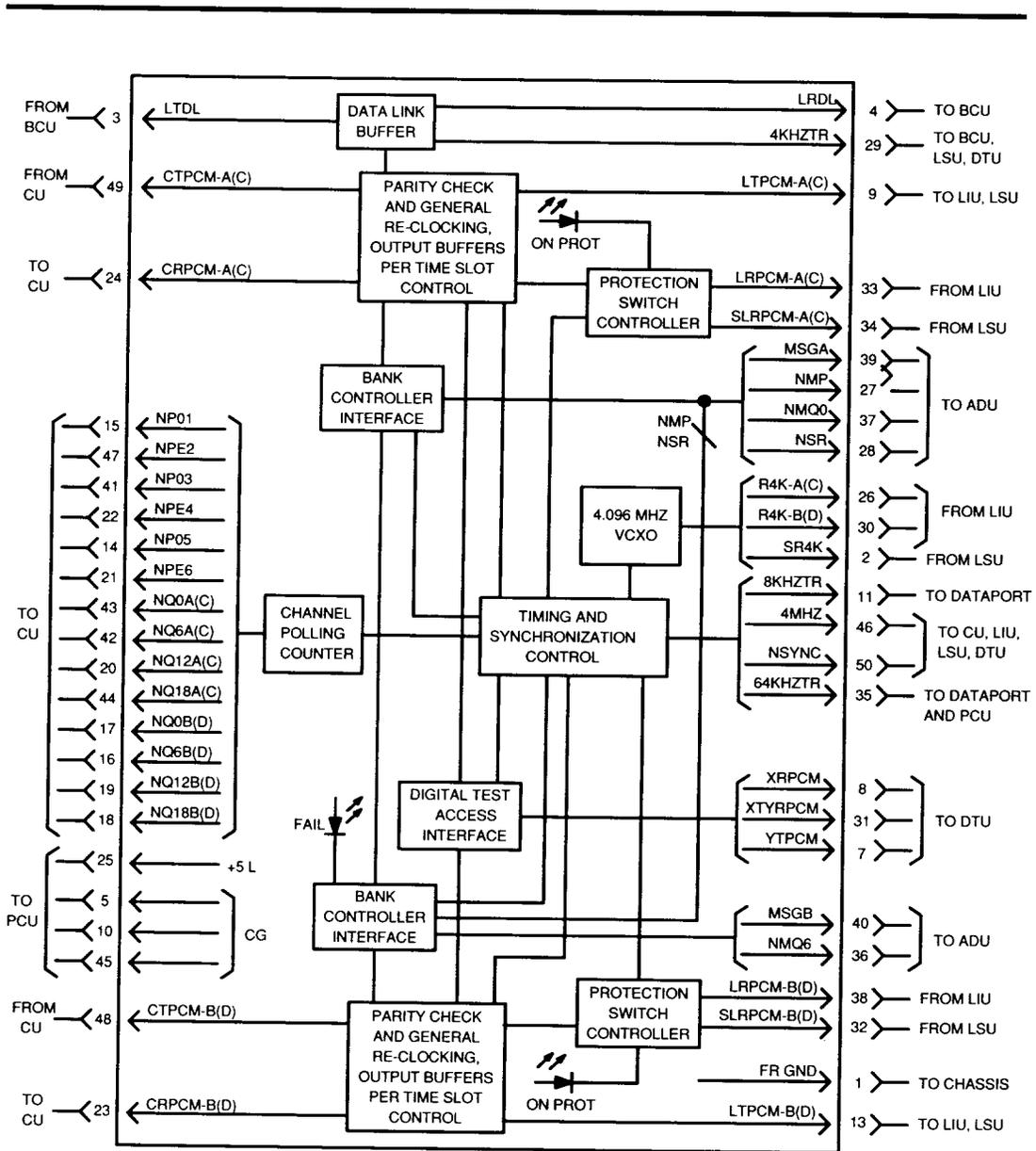
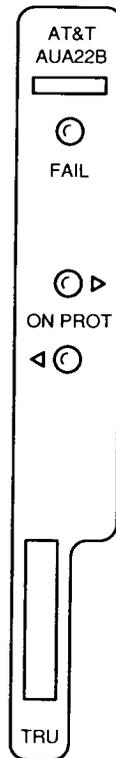


Figure 1. AUA22B Block Diagram



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**Figure 2. AUA22B Faceplate**

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

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