SLC® Series 5 Carrier System

AUA176 Line Test Translator — 5STEF00

This data sheet describes the AUA176 line test translator (LTT) unit (COMCODE 106654742) and is intended for the end-user of the unit. The AUA176 LTT unit is a *SLC*® Series 5 Carrier System remote terminal (RT) plug-in that provides test access of *SLC* Series 5 Carrier System 2-wire channel units (CUs) by a *4TEL* * Computer-Controlled Diagnostic System *RMU* * telephone line test measurement apparatus, models 270 and 275. The LTT unit plugs into the unmarked slot, located between the protection line interface unit (LIU-P) slot and the line switch unit (LSU) slot, in the White bank of the Series 5 RT dual channel bank assembly.

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

The LTT unit connects to the channel test unit (CTU) or automated channel test unit (ACTU) TEST ACCESS connector by means of a ribbon cable assembly. This connection permits the *RMU* measurement apparatus to communicate with the bank control unit (BCU) over the craft interface unit (CIU) test port. An AUA18 digital test unit - left (DTU-L) and AUA19 digital test unit - right (DTU-R) must also be installed in the Series 5 dual channel bank assembly to achieve test access.

The LTT unit translates the messages from the *RMU* measurement apparatus into CIU message format for use by the BCU. On receipt of a test access message, the LTT unit sends an indication to the BCU to connect the CIU test port to the CU. Before allowing a test of the CU drop, the LTT unit checks the CU type to be sure the line is routine testable and monitors the digital bit stream of the channel to be

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tested in order to determine if the channel is busy or idle. If the channel is testable and idle, the LTT unit allows routine testing to take place.

The LTT unit provides the following basic features:

- Translates and responds to *RMU* measurement apparatus messages for the BCU
- Identifies and stores the BCU address
- Requests test access from the BCU on receipt of a test access message from the *RMU* measurement apparatus
- Monitors the signaling bits to determine if a CU is busy
- Checks the CU type to determine if the circuit is testable.

The LTT unit provides the following two additional features to be utilized with Teradyne's phase 2 *RMU* measurement apparatus:

- Voice monitoring of customer lines
- Testing of busy and special services lines.

FAIL (Red LED): When lighted, indicates an internal failure within the AUA176 LTT unit. If this LED is the only indicator lighted on the LTT unit, then the LTT unit should be replaced immediately. During power-up, it is normal for this LED to light momentarily.

BUSY (Green LED): When lighted, indicates that drop test access has been granted to the *RMU* measurement apparatus.

CTU (10-Pin connector): This faceplate-mounted connector interfaces the AUA176 LTT unit to the CTU/ACTU by means of a ribbon cable assembly.

LTF/RMU (RJ-45 connector): This faceplate-mounted connector interfaces to the *RMU* measurement apparatus or line test fanout (LTF) unit to provide communication to the *RMU* measurement apparatus.

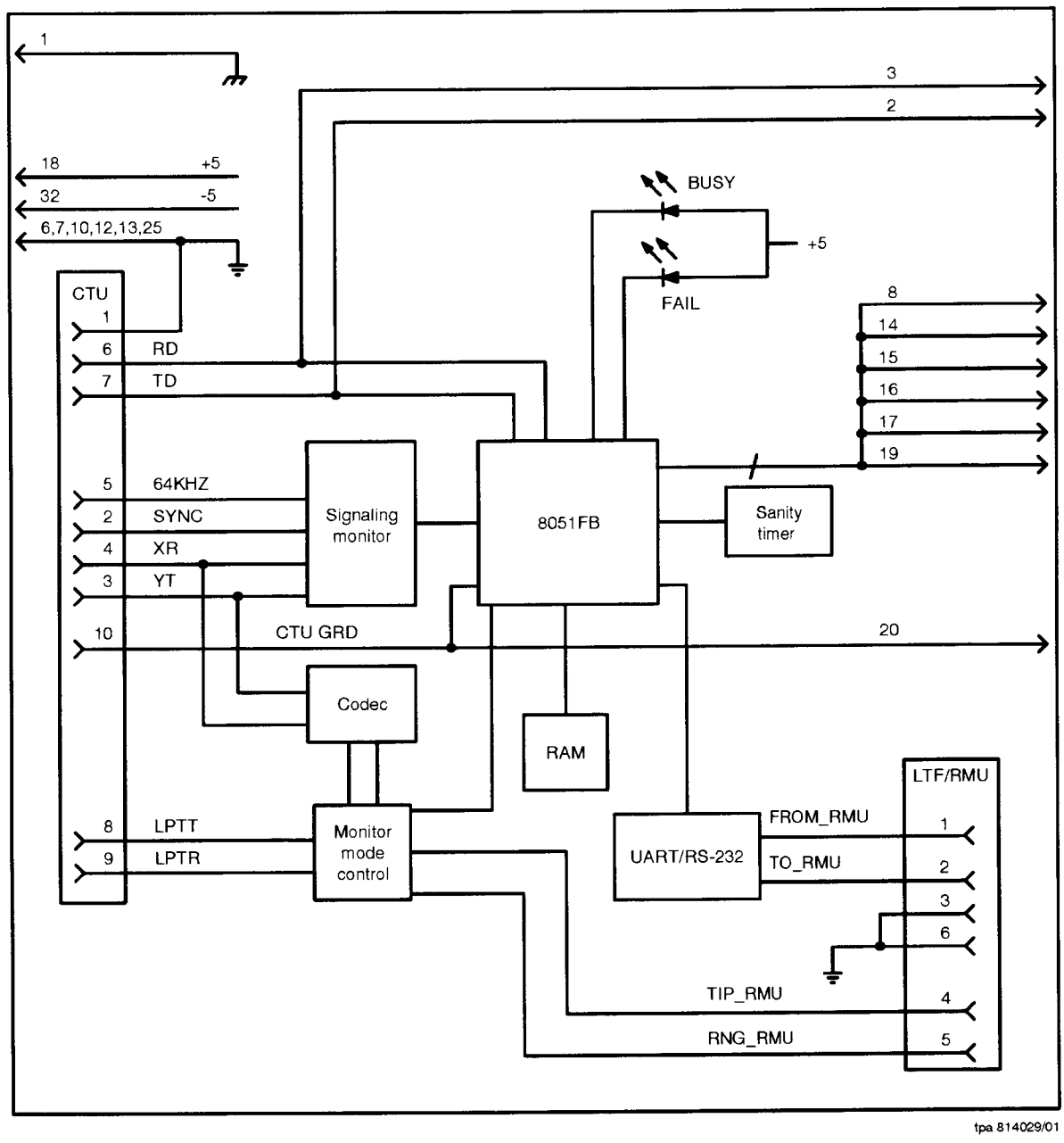

Figure 1. AUA176 LTT Unit Block Diagram

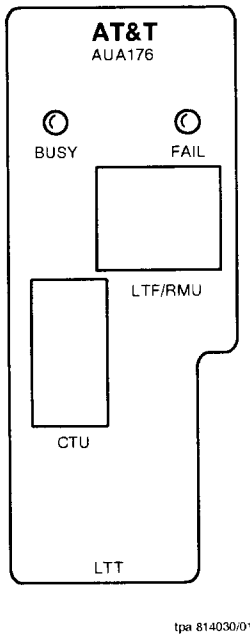

Figure 2. AUA176 LTT Unit Faceplate

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.**

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