SLC® Series 5 Carrier System

ED-7C719-30, Group 1 Line Test Fanout Unit — 5SMYAAD

This data sheet describes the ED-7C719-30, Group 1 line test fanout (LTF) unit (COMCODE 601355225) and is intended for the end-user of the unit. The LTF unit provides a point-to-multipoint connection from a single *4TEL* * Computer-Controlled Diagnostic System *RMU* * telephone line test measurement apparatus, models 270 and 275, to one to eight AUA176 line test translator (LTT) units, located in *SLC*® Series 5 Carrier System dual channel bank assemblies for loop testing purposes.

Figure 1 is a functional block diagram of the unit, and Figure 2 shows the unit with connector locations.

The following are key features offered by the LTF unit:

- Point-to-multipoint connection between an *RMU* measurement apparatus and a maximum of eight LTT units (one LTT unit will serve one Series 5 dual channel bank assembly)
- Switching between the DC bypass pair and the craft interface unit (CIU) test bus
- Physical layer maintenance.

The LTF unit provides a physical layer fanout for the connection of one to eight LTT units to one *RMU* measurement apparatus. The LTF unit receives messages from the *RMU* measurement apparatus and broadcasts them to all LTT units

* Registered trademark of Teradyne, Inc.

connected to it. In the opposite direction, the LTF unit combines messages received from the Series 5 systems, by means of the LTT units, and sends them to the *RMU* measurement apparatus.

The LTF unit provides switching between the metallic DC bypass pair and the CIU test bus port. These are two physically different connections controlled by a relay on the LTF unit. Since the *RMU* measurement apparatus has only one test pair, the LTF unit provides the capability to connect that test pair to either the metallic DC bypass pair or, by means of the LTT unit, to the CIU test bus port. In its normal state, the LTF unit connects the *RMU* measurement apparatus test pair to the metallic DC bypass pair for demand testing. On indication from the *RMU* measurement apparatus, the LTF unit switches the *RMU* measurement apparatus to the CIU test bus port for routine testing.

The LTF unit provides a physical layer maintenance feature that allows the *RMU* measurement apparatus to determine if the LTF unit is connected to the *RMU* measurement apparatus and the LTT unit ports on the LTF unit that are connected to LTT units.

The LTF unit mounts onto a bracket that is attached to the side of the *RMU* measurement apparatus. The LTF/*RMU* measurement apparatus arrangement is then mounted to a 23-inch mounting rack in a cabinet, hut, or controlled environment vault (CEV). When mounted in an 80D cabinet, the LTF unit mounts on side 1 in the bottom position (position 1). The LTF unit fits within a space with the following minimum dimensions: 4 inches wide, 1.75 inches high, and 12 inches deep.

J1: This connector interfaces to and provides communication with the *RMU* measurement apparatus.

LTT1 - LTT8 (RJ-45 connectors): These connectors provide the connection, by means of modular telephone cables, to a maximum of eight LTT units located in Series 5 dual channel bank assemblies.

J10: This connector provides power and DC bypass pair access from the Series 5 dual channel bank assembly and provides a test pair to the *RMU* measurement apparatus.

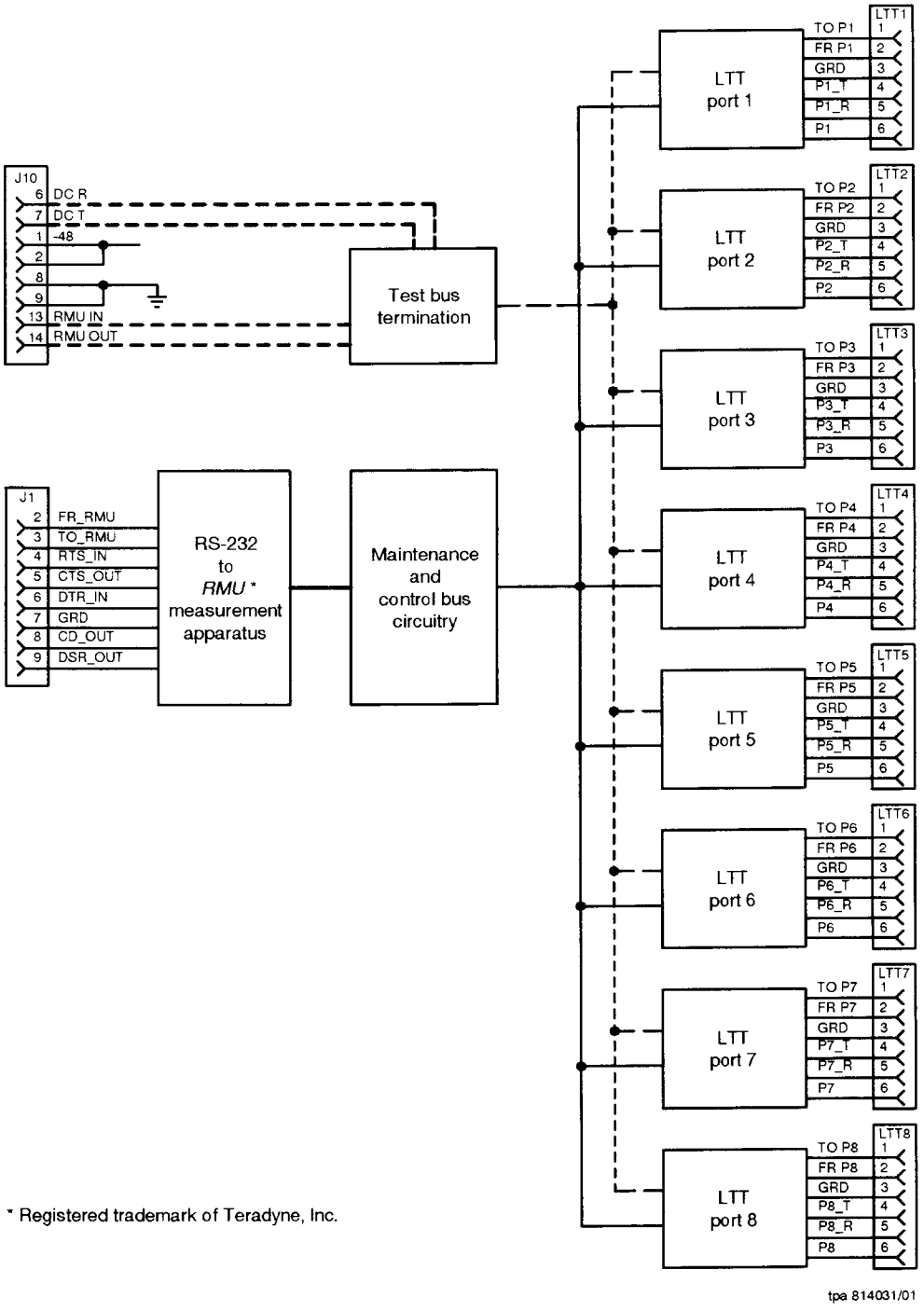

Figure 1. ED-7C719-30 LTF Unit Block Diagram

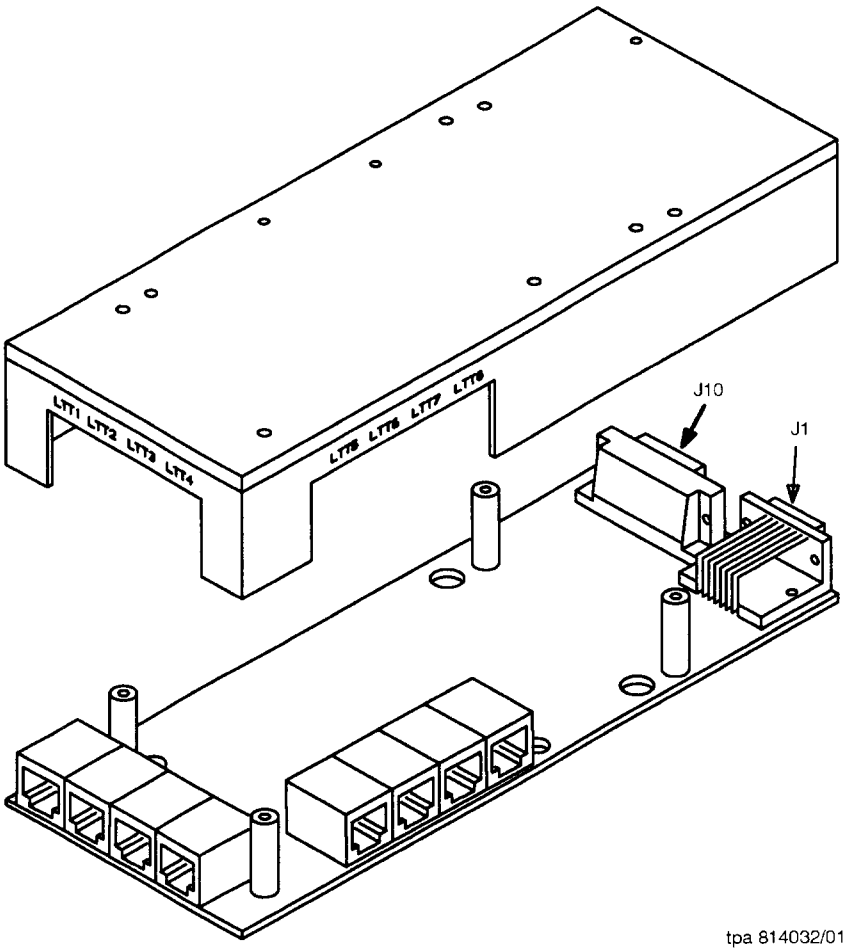

Figure 2. ED-7C719-30 LTF Unit Connector Locations

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.**

Additional copies of this document (AT&T 363-005-310) are available from the Customer Information Center — call 1-800-432-6600.

Comments about this document can be directed to:

AT&T
Document Development Organization
Attention: Publishing Services Department
2400 Reynolda Road
Winston-Salem, NC 27106