# *SLC* ®-2000 MSDT

## AUA411( ) Channel and Drop Test Unit — 5SPQADA

## Introduction

This data sheet describes both the AUA411 (COMCODE 106275696) and the AUA411B (COMCODE 107431597) channel and drop test units (CDTU). It is intended for the end-user of the units.

This data sheet is reissued to add information on the AUA411B CDTU.

## Physical and Functional Description

The AUA411( ) CDTU is used in the *SLC* ®-2000 Multi-Services Distant Terminal (MSDT). It provides the remote end terminations and detectors required to support end-to-end channel testing of 2-wire locally-switched services (POTS and multiparty) in *SLC* Carrier Systems featuring Fiber-In-The-Loop (FITL). The AUA411( ) CDTU also contains a drop test circuit to determine the health of the metallic drop beyond the MSDT. This supports loop testing with mechanized loop testing (MLT) and MLT-2.

The AUA411B maintains all the existing functions of the AUA411. It also allows the channel test terminations and detectors for the TR-08 mode to be used in the TR-303 mode of operations. Also, drop test functionality permits the testing of the ISDN NT1-U DC-signature.

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

When a channel test request is received from the host digital terminal (HDT), the backplane interface unit (BIU) instructs the channel unit (CU) associated with the channel under test to operate its test relay. This provides full splitting metallic access with the CU side connected to the channel test bus (CHTT, CHTR) and the line side (or drop) connected to the loop test bus (LPTT, LPTR). The BIU then informs the AUA411( ) CDTU that a test is occurring and the CDTU performs a drop test and reports the results back to the BIU.

The AUA411( ) CDTU applies channel test terminations in sequence based on results from the channel test detectors and instructions from the BIU.

When the HDT signals that the test session is complete, the BIU instructs the CU to return to normal operation and the AUA411( ) CDTU to return to its idle state.

The AUA411( ) CDTU performs tests to detect the following faults on the drop beyond the MSDT:

- Hazardous voltage
- Foreign voltage (FEMF)
- Metallic leakage
- Receiver off-hook (ROH)
- Lack of continuity to the station set (OPEN).

If none of these faults are found, the CDTU will report a test OK.

The inventory and alarm circuit contains factory-installed information peculiar to the AUA411( ) CDTU (for example, COMCODE number) that can be remotely accessed using an operation interface processor. This circuit also gathers alarm information from the CDTU and makes it available upstream.

## Faceplate Indicators

The AUA411( ) contains the following faceplate indicators:

- **FAIL** (Red LED): When lighted, indicates an internal failure with the AUA411( ) CDTU.
- **BUSY** (Green LED): When lighted, indicates that a test session is active.

There are no options or settings that need to be selected on this plug-in.

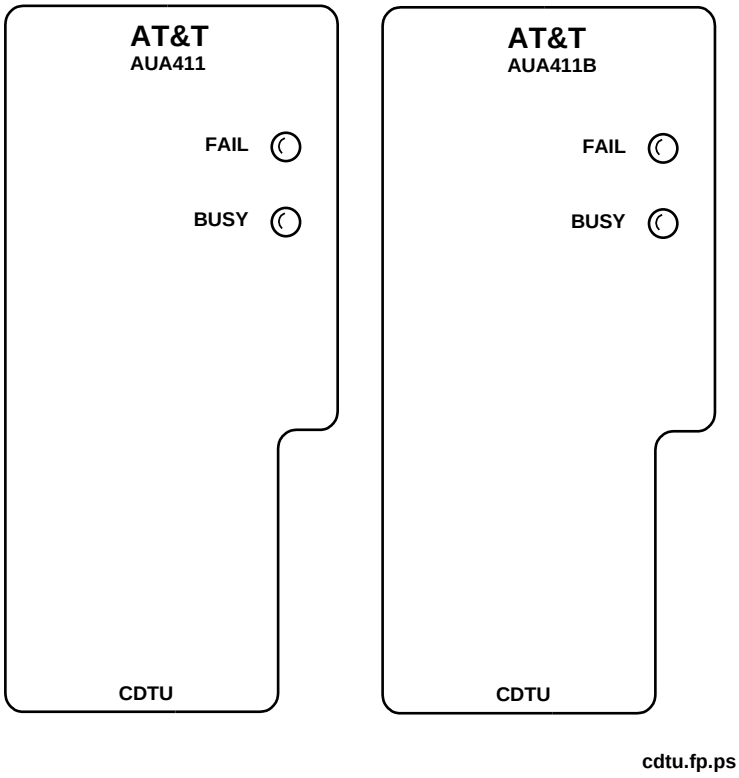


**Figure 1. AUA411( ) CDTU Faceplates**

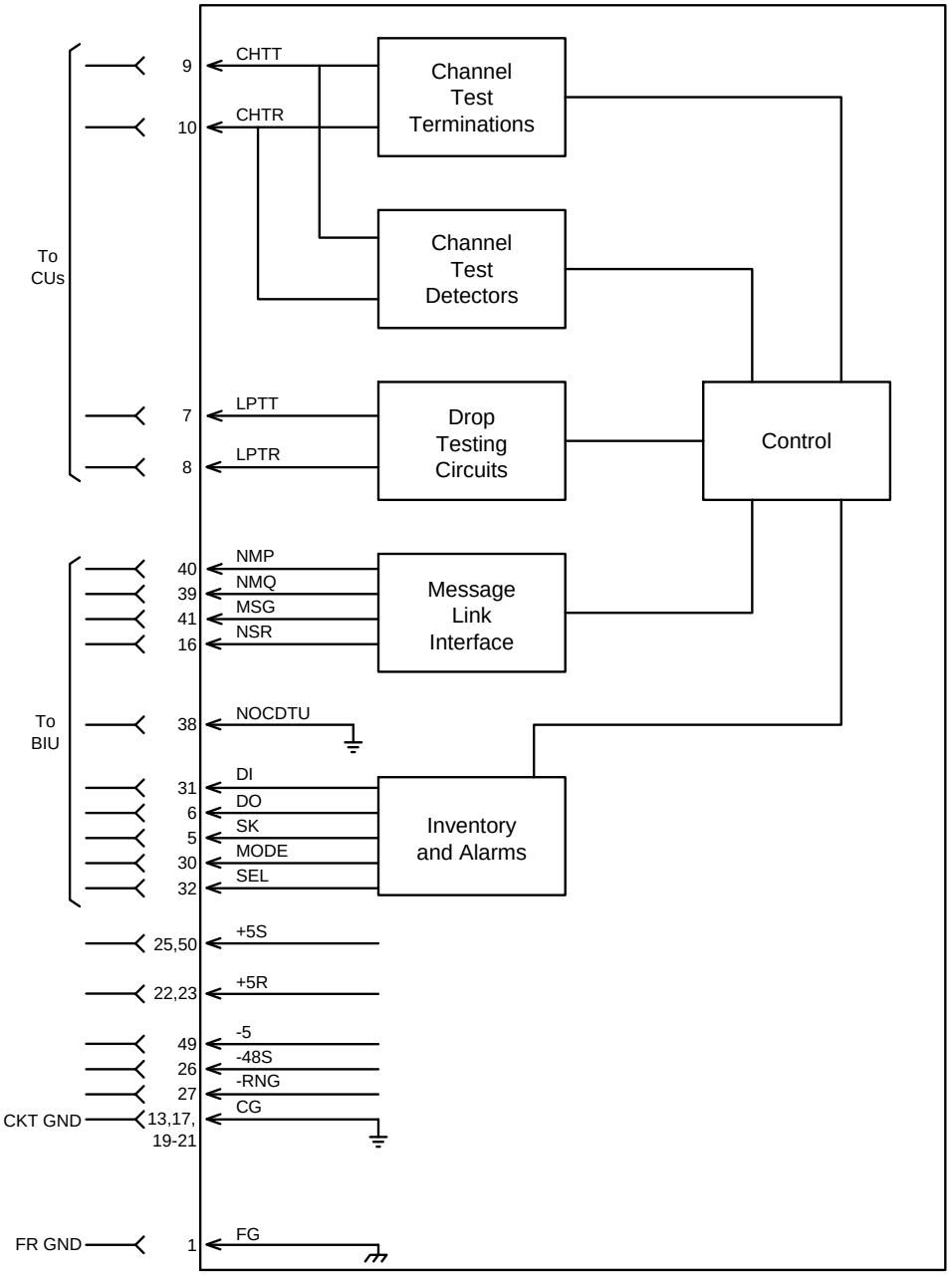


**Figure 2. AUA411( ) CDTU Block Diagram**

## Technical Assistance

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**.

## Ordering Information

Call the Customer Information Center at 1-800-432-6600 to get additional copies of this document (AT&T 363-005-275).

## Comments

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