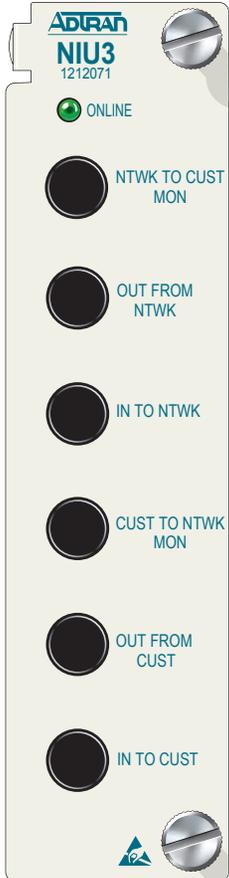


DS3 DS3 NIU MTC

P/N 1212071L1
CLEI: NCC1SN0D



GENERAL

This job aid provides instructions for using the ADTRAN DS3 NIU Monitor and Test Card (DS3 NIU MTC) to provide a quick, reliable means for craft personnel to monitor and test both the network side and customer side data loops. The DS3 MTC is compatible with any DS3 NIU3 chassis:

- ◆ DS3 NIU Single Slot Housing
- ◆ DS3 NIU 3-Slot Shelf
- ◆ DS3 NIU 12-Slot Shelf

Digital Network Loopback Test

The DS3 MTC inserts into any empty slot in the DS3 NIU chassis designated for test. There are six front panel midsize connectors labeled as shown:

- ◆ NTWK TO CUST MON
- ◆ OUT FROM NTWK
- ◆ IN TO NTWK
- ◆ CUST TO NTWK MON
- ◆ OUT FROM CUST
- ◆ IN TO CUST

The OUT FROM X test jacks receive network or customer data entering the DS3 MTC and pass that data to the test device. The IN TO X test jacks inject network or customer test signals from the test device into the DS3 MTC for transmission into the respective loop. The MON jacks monitor the network-to-customer or customer-to-network loop.

A green ONLINE status LED verifies that the card has ± 24 VDC or -48 VDC applied, and the cut-through relays are energized. If the LED is off, the card does not have power, and the cut-through relays are de-energized. Cut-through relays are mounted separately on the housing, not on the DS3 MTC.

The DS3 MTC is not intrusive during monitoring functions but is intrusive and will disrupt data flow during testing functions.

INSTALLATION

After unpacking the unit, inspect it for damage. If damage is noted, file a claim with the carrier, and then notify ADTRAN. See *Warranty* section.

Insert the card in the empty slot designated for test. Ensure the edge connector seats firmly into the backplane. Secure the card in place with the thumb-screws.

ENVIRONMENTAL SPECIFICATIONS

- ◆ Operating temperature: -40°C to $+70^{\circ}\text{C}$
- ◆ Storage temperature: -40°C to $+85^{\circ}\text{C}$
- ◆ Relative humidity: 95% noncondensing maximum

COMPLIANCE

- ◆ NEBS Level 3
- ◆ Meets FCC Part 15, Class A Requirements
- ◆ Meets UL 60950 Requirements

The following table shows the compliance codes for the DS3 Monitor and Test Card. The DS3 Monitor and Test Card is NRTL listed to the applicable UL standards.

Compliance Code	Input	Output
Power Code (PC)	F	–
Telecommunication Code (TC)	–	–
Installation Code (IC)	A	–

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

NOTE: *Changes or modifications not expressly approved by ADTRAN could void authority to operate this equipment.*

DS3 MONITOR AND TEST CARD OPERATION

The DS3 NIU MTC can pass both network and customer signals up to 450 feet. See illustration below. During normal operation, IN TO NTWK is internally connected to OUT FROM CUST, and IN TO CUST is internally connected to OUT FROM NTWK. During test functions the intrusive jack inserted into the DS3 MTC breaks the internal connection with its corresponding jack and automatically terminates it at 75 ohms. In the tests described below the test jacks inserted into the DS3 NIU MTC access the NIU3 backplane jacks for the network or customer loops.

TO ACCESS:	INSERT THE TEST JACK IN CONNECTOR LABELED:
Network to Customer path for nonintrusive monitoring	NTWK TO CUST MON
NIU3 NTWK IN loop	DS3 MTC OUT FROM NTWK
NIU3 NTWK OUT loop	DS3 MTC IN TO NTWK
Customer to Network path for nonintrusive monitoring	CUST TO NTWK MON
NIU3 CUST IN loop	DS3 MTC OUT FROM CUST
NIU3 CUST OUT loop	DS3 MTC IN TO CUST

DS3 Monitor and Test Card Configurations

