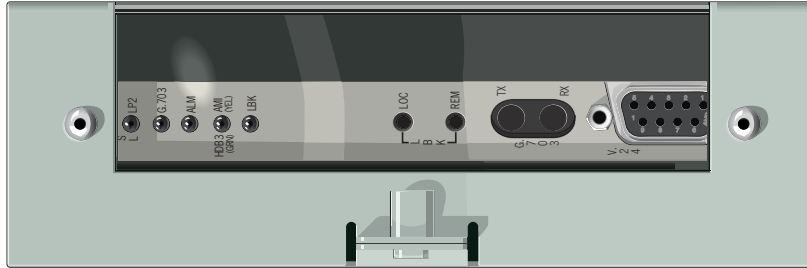


HDSL NTU



GENERAL

The HDSL NTU standalone housing and host circuit board provides a connection and transfer point between the HDSL E1 transmission line terminating at the installed NTU, and the 4-wire loop to the customer.

FEATURES

- Transparent front panel for LED viewing
- Wallmount
- Durable, hinged metal enclosure
- All screw fasteners
- Host circuit board terminal connections for network and power
- Quick-connect punch-down block network connections
- RJ-48 jack for 120 Ω customer connection
- BNCs for 75 Ω alternate customer connection

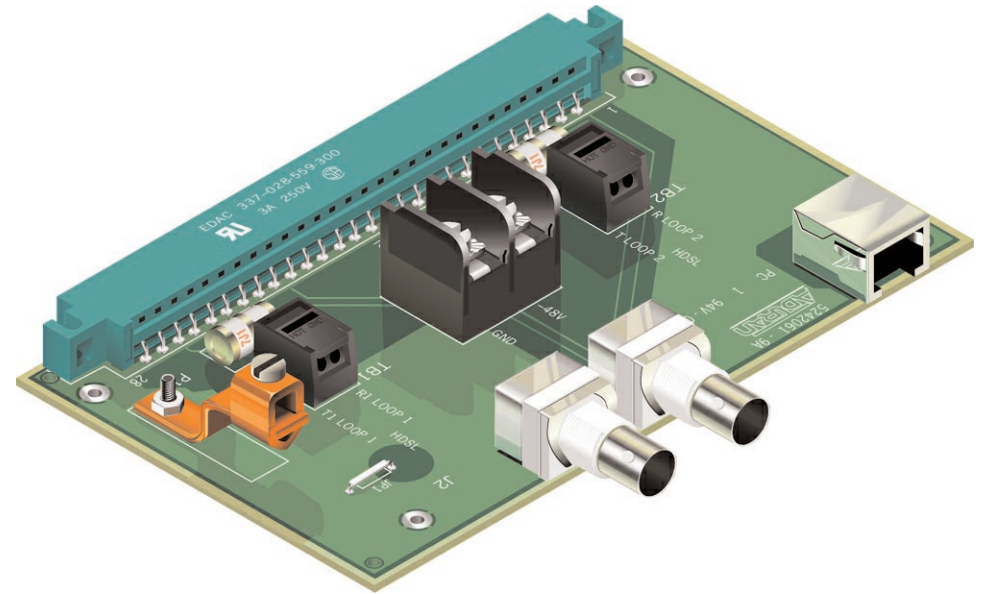
CONNECTIONS

J1	RJ-45, G.703 120 Ω TX/RX customer jack
J2	BNC, G.703 75 Ω TX customer jack
J3	BNC, G.703 75 Ω RX customer jack
P1	Frame Ground lug
P2	28-pin card edge connector
TB1	HDSL loop 1 (R1, T1) punch-down terminal block
TB2	HDSL loop 2 (R, T) punch-down terminal block
TB3	-48 Vdc spade lug terminal block, supply and return

INSTALLATION

Unpack the unit and inspect for damage. If damage is noted, file a claim with the carrier, then notify ADTRAN. See *Warranty* section. Review *Compliance* section before proceeding.

The standalone housing is designed to mount to a plywood backboard. The base has four mounting screw holes on raised extrusions, which provide clearance from the backboard. The housing interior holds a host circuit board designed to accept the HDSL NTU unit. Card guides direct the NTU for correct insertion and prevent perpendicular movement. The edge connector holds the NTU firmly in position.



Mount the housing at the desired location in accordance with Bellcore workmanship standards. Ensure location allows cover to fully open.

Power/Ground Connection

NOTE: This job aid assumes local DC is the primary power source. Span power, if available, will automatically pick up should primary power fail. The installed NTU software automatically selects the power source via relays.

1. Insert local DC power wires through the PODER portal on the rear panel. Route the wires to TB3. Power terminal TB3 is designed for spade lugs.
2. Connect -48 Vdc supply to TB3 -48V terminal.
3. Connect -48 Vdc return to TB3 GND terminal.
4. Insert local ground wire through the TIERRA portal on the rear panel.
5. Connect local ground to copper ground lug P1.

P1 is a screw compression type terminal requiring 10-14 AWG solid copper wire. P1 is electrically connected to TB3 GND.

NOTE: All grounds must terminate at a known approved ground location. Check metal to metal contact on all ground connections. Ensure ground circuit continuity.

Network Connection

NOTE: Do not strip wires when using punch-down terminals.

TB1 and TB2 are punch-down terminal blocks requiring 22-24 AWG wire.

1. Insert network LOOP 1 (R1 and T1) wires through the LINEA portal on the rear panel.
2. Route the wires to terminal TB1 but create a loopback in the wire as excess for future use.
3. Lift the hinged cover on TB1.
4. Insert the T1 and R1 wires through the appropriate pass-through ports on TB1 until the wire tips are seen at the back of the ports.
5. Press down on the hinged cover until flush with the terminal.

This action penetrates the insulation and seats the wires in the punch-down block.

NOTE: If the hinged covers are lifted for any reason, advance the wire a fraction to take a fresh bite when reseating. Cut off and remove excess wire from back of pass-through ports.

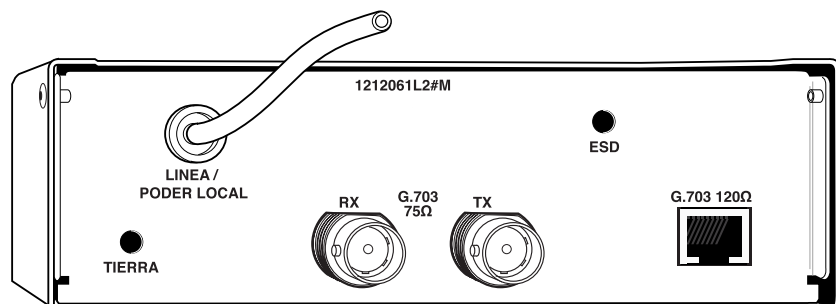
6. Repeat the same process for LOOP 2 (T and R) connecting to punch-down terminal block TB2.

Customer Connection

There are two customer equipment connections on the rear panel:

- RJ-45 (J1) labeled G.703 120 Ω. This jack connects transmit and receive to the customer loop.
- Two BNCs (J2, J3) labeled G.703 75 Ω, RX and TX. These are alternate customer connections.

The RX jack is input from the customer, the TX jack transmits to the customer. Make the customer connection to the appropriate connector.



TURNUP

Upon installation of the NTU into the host circuit board with power, the NTU LP1 and LP2 LEDs turn ON green. Refer to Job Aid 61246035L1-22 for LED descriptions and detailed information on the E1 HDSL NTU.

COMPLIANCE

The NTU standalone housing is intended for installation in a restricted access location, or where access is gained by service personnel only and with use of a special tool or key.

The host circuit board maximum input rating is 5 amps @ -48 Vdc.

Adhere to one of the following installation requirements:

- a) Connect to a reliably grounded -48 Vdc source that is electrically isolated from the AC source. A readily accessed disconnect device, suitably approved and rated, shall be incorporated in the fixed wiring. Branch circuit overcurrent protection shall be a fuse or circuit breaker rated minimum 48 V, maximum 15 A. Install in accordance with NEC NFPA 70.
- b) Connect to a Class Z Type (LPS) power supply rated at -48 Vdc, maximum 240 VA.

Compliance Codes

Code	Input	Output
Power Code (PC)	F	F
Telecommunications Code (TC)	X	X
Installation Code (IC)	E	-

Specifications and Part Numbers

Feature	Value
Dimensions	10.5 in. L x 6 in. W x 2 in. H
Weight w/ circuit boards	2 Lbs.
Operating temperature	-40°C to 85°C (-40°F to 185°F)
Storage temperature	-40°C to 85°C (-40°F to 185°F)
Relative humidity	Up to 95% non-condensing
Part Number	Unit Description
1246035L1	HDSL NTU
1242061L2#M	Standalone housing w/ host circuit board. (NTU specific)

MAINTENANCE

The HDSL NTU standalone housing and host circuit board do not require maintenance for normal operation. ADTRAN does not recommend field repairs. For repair services contact ADTRAN at the following numbers:

Mexico/Caribbean
 1 954 577-0357 voice
 1 954 577-0358 fax
 sales.mexico@adtran.com

WARRANTY

Warranty for Carrier Networks Division products manufactured by ADTRAN and supplied under Buyer's order for international use is five (5) years. For a complete copy of ADTRAN's *International Equipment Warranty*, (877) 457-5007, document #583.