

HTU-C

ADIDAD

HTIL. D

OUR

OLPS

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SECO.SL

DES CLAM

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Please ensure you are properly grounded before setting any function switches.

Switch Option Settings (arrows indicate default settings)



The HTU-C M transfers the local configuration to the HTU-R when circuit synchronization is achieved. The HTU-R then sets its configuration to match the HTU-C M.

Rotary Switch

Used to select operation of the line build-out equalizer in series with the DSX-1 output

D -----

runction	Selects external line build-out 1	
EXT		
➤ 0	Line length from 0-133 feet of ABAM cable	
133	Line length from 133-266 feet of ABAM cable	
266	Line length from 266-399 feet of ABAM cable	

SW1

SW1.3

533 SW1.1 Loophack Timeout Enabled

With SW1-1 at FN, Inophark timeout is enabled (20 minutes), 2.3

With SW1-5 at B8ZS, binary 8 zero substitution is selected.

Line length from 533-655 feet of ABAM cable

With SW1-1 at DIS, loopback timeout is disabled. Disabled SW1-2 NILLI nonhark Programs the ADTRAN HDSL system to respond to traditional T1 - Enghlad network interface unit (NIU) loop-up and loop-down codes. Disphlad

Manual Frame Select Frame selection SE With SW1-3 at SF, superframe format is selected.

> FSF With SW1-3 at ESF, extended superframe format is selected. SW1-4 T1 Framing Selects the T1 framing mode

Unframed With SW1-4 at UERM, unframed operation is selected. SW1-3. setting is ignored.

- Framed With SW1-4 at FRM, framed operation is selected. SW1.5 Marual Code Select Selects alternate mark inversion or binary 8 zero substitution codes. AMI With SW1-5 at AMI, alternate mark inversion is selected.

HTILB

-B8ZS

Function Description

REM Remote Loopback If the HTU-C M is not in loopback pressing REM activates the loopback towards the customer. If the HTU-C M is in loopback, pressing REM deactivates the loopback.

LOC Local Loopback If the HTU-R is not in loopback, pressing REM activates the loopback towards the customer. If the HTU-R is in loopback. pressing REM deactivates the loopback.

' If external line build-out is selected, the signal transmitted by the HTU-C M is a 12V p-p signal. This must be considered when measuring the signal at the DSX EQ faceplate Bantam lack. The signal may appear hotter than it should be 2 Loopback timeout must be selected prior to initiating a loopback.

⁹ 60 and 120 minutes is selectable from the craft interface.







HDSL DEPLOYMENT GUIDELINES

The ADTRAN HDSL system is designed to provide DS1 based services over loops designed to comply with Carrier Service Area (CSA) guidelines. CSA deployment guidelines are given below.

- 1. All loops are non-loaded only.
- 2. For loops with 26-AWG cable, the maximum loop length including bridged tap lengths is 9kft.
- 3. For loops with 24-AWG cable, the maximum loop length including bridged tap lengths is 12kft
- 4. Any single bridged tap is limited to 2kft.
- 5. Total bridged tap length is limited to 2.5kft.
- 6. The total length of multi-gauge cable containing 26-AWG cable must not exceed:

L26 = Total length of 26-AWG cable excluding bridged taps (in kft)

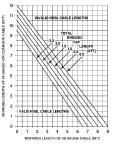
Letter - Total length of all bridged taps (in kft) This deployment criteria is summarized in the chart shown

Recommended maximum local loop loss information for PIC cable at 70°F, 135Ω, resistive termination is listed in the provided table.

An approximation for maximum amount of wideband nosie on a DSL local loop as measured by a 50kbps filter is < 31dBm

An approximation for maximum amount of impulse noise on a DSL local loop as measured by a 50kbps filter is < 50dBm.

These approximations are to be used as auidelines only and may vary slightly on different loops. Adhering to the guidelines should produce performance in excess of 10" BER.



When deployment requires the use of two HREs, the HTU-C M can be deployed with two Low Voltage T400 HREs (1244.041L2) and one Low Voltage HTU-R (1245.021) 1 or 1245.026) 1).

Loop Insertion Loss Frequency (Hz) Maximum Loss (dB)

3000	12.0
10,000	15.0
50,000	25.5
100.000	30.0
150.000	32.75

ADTRAN Technical Support (800) 726-8663 Standard support hours, Monday-Friday, 7am-7pm CST Emergency Support 7 days/week, 24 hours/day