



STATUS LED

STATUS	Color/Action	Description
GREEN	Solid	Everything functioning normally
BLINKING	Green	ES, SES, or BPV detected
YELLOW	Solid	Loopbacks active
BLINKING	Yellow	In-band loopbacks armed
RED	Solid	Alarm on the HDSL2 loop, DSX or DS1 interface
BLINKING	Red	Signal Quality of 0 or No Sync on the HDSL2 loop

FOUR-CHARACTER DISPLAY (FCD) OPERATION



Left = MODE
Center = OFF
Right = SELECT

FCD Modes

Mode	Message	Function
Status	STAT	Displays loop margin, alarms, and general status conditions
Display Off	Blank	Blank after five minutes of no activity
View	VIEW	View current options settings
Loopback	LPBK	Select and execute HDSL2 circuit loopbacks

Status/Alarm Display ("STAT")

Message	Description
MARG xx	HDSL2 loop margin, 0-20
DSL ERR	CRC error detected on HDSL2 Loop
LOC ERR	Frame bit error (SF Mode), Bipolar Violation (BPV), or CRC error (ESF Mode) detected locally at DSX-1 of the H2TU-C
REM ERR	Frame bit error (SF Mode), Bipolar Violation (BPV), or CRC error (ESF Mode) detected remotely at DS1 of the H2TU-R
DSL LOS	No synchronization of H2TU-C and H2TU-R on loop
LOC LOS	DSX signal is absent from the network interface or is of a format which does not match the provisioning of the HDSL2 circuit
REM LOS	DS1 signal is absent from the network interface or is of a format which does not match the provisioning of the HDSL2 circuit
ARM	NIU Loopback is armed

COMPLIANCE CODES

This product is intended for installation in restricted access locations only and in equipment with a Type "B" or "E" installation code.

Input current at maximum load is 0.7 A at -48 Vdc. Maximum output at over current condition is 165 mA at -190 Vdc.

CODE	IN	OUT
Installation Code (IC)	A	-
Telecommunication Code (TC)	-	X
Power Code (PC)	F	C

WARRANTY

Warranty for Carrier Networks products manufactured by ADTRAN and supplied under Buyer's order for use in the U.S. is ten (10) years. For a complete copy of ADTRAN's U.S. Carrier Networks Equipment Warranty: (877) 457-5007, Document #414.

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Option Settings Display ("VIEW")

Message	Description	Settings	Default
LBO	Line Build Out	EXT, 0, 133, 266, 399, 533	*
CODE	Line Code	AMI, B8ZS	B8ZS
FRMG	DSX-1 Framing	AUTO, UNF	UNF
NLBK	NIU Loopback	EN, DIS	EN
LBTO	Loopback Timeout	NONE, 1 Hr, 2 Hr, 8 Hr, 24 Hr	1 Hr
CLOS	Customer Loss Response	AIS, LPBK	AIS
PRM	Performance Reporting Messages	NPRM, SPRM, NONE, AUTO	AUTO
TXLV	DS1 Transmit Level	0 dB, -7.5 dB, -15 dB	0 dB
SPWR	Span Power	EN, DIS	EN
ALMP	Alarm Pattern to Customer	AIS, LOS	AIS

* 220 = EXT, 3192/DDM+ = 0

Loopback Options Display ("LPBK")

Select	Loopback State	Loopback Description
HTUC	NET	Network loopback at H2TU-C
	CST	Customer loopback at H2TU-C
	NONE	No active loopback
HTUR	BLB	Bidirectional loopback at H2TU-R
	NET	Network loopback at H2TU-R
	CST	Customer loopback at H2TU-R
	NONE	No active loopback

DSX-1 BANTAM JACKS

EQ

- Provides an intrusive access point to the data stream.
 - TX - Access the data stream being received from the network.
 - RX - Access the data stream being transmitted to the network.

MON

- Provides a non-intrusive access point to the data stream.
 - TX - Monitors the data stream being received from the network
 - RX - Monitors the data stream being transmitted to the network.

NOTE: The DDM+ H2TU-C does not have the DSX-1 Bantam Jacks option.

RS-232 DB-9 CONNECTOR

- Used to access performance monitoring data, perform loopbacks and provision units via VT100 emulation applications such as Hyper Terminal - Private Edition, ProComm Plus, and Telnet.
- There are two types of terminal emulation modes, Manual and Real-Time. Use "CTRL-T" to toggle between the two modes.

Manual Emulation Mode: Press the space bar 3 times to manually update the screen. Print screen and log file commands are available in this mode.

Real-Time Emulation Mode: The default mode. Print screen and log file commands are not available in this mode. Cursor placement and screen highlighting are enabled.

- Provision terminal port as follows:

Data Rate — 1.2 to 19.2 kbps

Asynchronous Data Format — eight data bits, no parity (none), one stop bit

- When using a PC with terminal software, be sure to disable any power saving programs.

PROVISIONING NOTES

- This unit can be provisioned via the RS-232 port or remotely via ITS codes. This unit cannot be provisioned from the faceplate four-character display. Select "2" from the ADTRAN HDSL2 Main Menu Screen to view the Provisioning Screen.



CAUTION!
SUBJECT TO ELECTROSTATIC DAMAGE
OR DECREASE IN RELIABILITY.
HANDLING PRECAUTIONS REQUIRED.

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