

6541 SHDSL 2-Wire/4-Wire NTU, DC Powered

0612



6541 Front Panel

DESCRIPTION

The DC powered ADTRAN 6541 SHDSL 2-Wire/4-Wire NTU (P/N 1230008L1) functions as an interface between the SHDSL network and the Data Terminal Equipment (DTE) for applications such as LAN-to-LAN bridging, Frame Relay circuit, and PABX termination. The 6541 is designed to be used as a remote unit to the ADTRAN Total Access® 3000 multiservice platform, or as a pair of units in a point-to-point limited distance campus configuration, with one 6541 configured to "LT" mode.

COMPLIANCE

EN 300 386-2; IEC 60950/EN 60950/AS NZS60950; S016; S043.2; ITU K.21 Enhanced; Telstra 1555.

FEATURES

The 6541 has the following features:

- ♦ Housed in a standalone plastic case
- Provides four front panel recessed pushbuttons and eight front panel LED indicators
- ◆ Provides SHDSL, G.703 and/or Nx64K ports, and a local management port
- Provides a rear panel local power DC connection
- ◆ Provides bad splice protection using the ADTRAN proprietary Runtime TScanTM 2.0 splice protection feature (for more information on this feature and how to locally manage TScan, refer to the SHDSL 2-Wire/4-Wire NTU Product Series Installation and Maintenance Practice, P/N 61230001L1-5)

PUSHBUTTON FUNCTIONALITY

Pushbutton	Description		
PORT SELECT	Press the PORT SELECT button to select the active port. Selection choices cycle through the following order: No Port, Nx64k, G.703, SHDSL.		
LOCAL LOOP/ ERR INJ	If a port is selected, and a Bit Error Rate Test (BERT) is not in progress, press the LOCAL LOOP/ERR INJ button to initiate or terminate a local loop on the selected port. If a BERT is in progress, press the button to inject a single bit error.		
REMOTE LOOP	If the SHDSL port is selected, press the REMOTE LOOP button to place or remove a remote loop on the port by sending a EOC request message to the LTU (or NTU in campus mode). If the $Nx64K$ port or $G.703$ port (with only one service defined) is selected, press this button to place or remove a remote loop on the selected port's single data service by sending respective inband loop up or loop down patterns to the far end (in the associated data service timeslots).		
BERT	If a port is selected and there are no local loops, press the BERT button to start or stop a BERT on the selected port.		



6541 Rear Panel

LED INDICATOR FUNCTIONALITY

Label	Status		Description	
SHDSL	0	Off	Unit is powered off	
		Green Yellow	Port is trained; no active alarms	
		Red	Port is trained with a minor active alarm (1)	
	_		Port is attempting to or is trained with a major alarm (2)	
G.703	0	Off	Port is not active	
		Green	Active Port with no active alarm	
		Yellow	Active Port with a minor alarm (3)	
		Red	Active Port with a major alarm (4)	
Nx64K	0	Off	Port is not active	
		Green	Active Port with no active alarm	
		Red	Active Port with an active alarm condition (5)	
RTS/C	0	Off	Nx64K port is not active or when active, V.35/V.36 "Request To Send" or X.21 "Control" line from the DTE is off	
		Green	V.35/V.36 "Request To Send" or X.21 "Control" line from the DTE is on	
	_			
RLSD/I	0	Off	Nx64K port is inactive or when active, V.35/V.36 "Receive Line Signal Detector" and X.21 "Indication" control line from the NTU is off.	
	•	Green	V.35/V.36 "Receive Line Signal Detector" or X.21 "Indication" control line from the NTU (DCE) is on	
LLOOP	0	Off	Local Loop is not active	
		Yellow	Active Local Loopback on the selected port	
		Red	Active Local Loop on one or more ports or services (when no port is selected)	
RLOOP	0	Off	Remote Loop is not active	
		Yellow	Active Remote Loopback on the selected port (when determined via established EOC)	
		Red	Active Remote Loop on one or more ports or services (when no port is selected)	
BERT	0	Off	BERT is not active	
		Green	Active BERT and the test pattern detector is synchronized with no received bit errors	
		Yellow	Active BERT and one or more test pattern bit errors have been received	
		Red	Active BERT but the test pattern detector is not synchronized	

- Minor SHDSL port alarms: CRC errors, Loop Attenuation Threshold Alarm, SNR Margin Threshold Alarm, Segment Anomaly, and any ES, SES, UAS, CVC, and LOSWS 15-Minute Threshold Alarm
- 2. Major SHDSL port alarms: LOS, LOSW, or Segment Defect
- Minor G.703 port alarms: Rx RAI, Frame Slip, CRC-4 errors, LBER, and any ES, SES, UAS, and CVC 15-Minute Threshold Alarm
- 4. Major G.703 port alarms: LOS, LOF, LOMF, Rx AIS, or HBER
- 5. Nx64K port alarms: Clock Slip, Loss of External Clock, FIFO Underflow/Overflow, and Inactivity Alarm





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PRICING AND AVAILABILITY 800.827.0807 TECH SUPPORT 800.726.8663 RETURN FOR REPAIR 256.963.8722 www.adtran.com 61230008L1-22B

MENU TREE

