

6540 SHDSL 2-Wire/4-Wire NTU, AC Powered

0612



6540 Front Panel

DESCRIPTION

The AC powered ADTRAN 6540 SHDSL 2-Wire/4-Wire NTU (P/N 1230001L1) 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 6540 is designed to be used either 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 6540 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 6540 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 connection for local AC power
- ◆ Provides bad splice protection using the ADTRAN proprietary Runtime TScan[™] 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.



6540 Rear Panel

LED INDICATOR FUNCTIONALITY

Label	Status		Description		
SHDSL	0	Off	Unit is powered off		
		Green	Port is trained; no active alarms		
		Yellow	Port is trained with a minor active alarm (1)		
		Red	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
- 3. Minor G.703 port alarms: Rx RAI, Frame Slip, CRC-4 errors, LBER, and any ES, SES, UAS, and CVC 15-Minute Threehold 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 61230001L1-22B

MENU TREE

TU nit Options HDSL Options	1. Interface Mode 2. Payload Rate (kbps) * 3. SNR Margin Alarm Threshold (dB) 4. Loop Attenuation Alarm Threshold (dB) 5. Outage Auto-Retrain 6. PM Thresholds 1. ES 15-Minute Alarm Threshold 2. SES 15-Minute Alarm Threshold 3. UAS 15-Minute Alarm Threshold 4. CVC 15-Minute Alarm Threshold 5. LOSWS 15-Minute Alarm Threshold 6. OS 15-Minute Alarm Threshold 1. ISDN-PRA V3 2. G. 704 CRC-4 Multiframing 3. Timeslot Idle Pattern 4. Spare Bits Insertion to Span 5. Spare Bits Pattern to Span 6. Spare Bits Insertion 7. Spare Bits Pattern	1. 2-Wire 2. 4-Wire 0. Disabled 1-15. Alarm Threshold 0. Disabled 1-127. Alarm Threshold 1. Disabled 2. Enabled 0. Disabled 1-900. Seconds 0. Disabled 1-65535. Seconds 0. Disabled 1-900. Seconds 1. Disabled 2. Enabled 0. Disabled 2. Enabled 0. Disabled 1-900. Seconds 1. Disabled 2. Enabled 0.0h to FFh 1. Disabled 2. Enabled	2. Cross-Connect Map 3. Clock Source 4. Circuit ID 5. Date and Time 6. Restore Factory Defaults 7. Upgrade Firmware 8. Local Management 9. Change Password 1. Interface Type Auto Detection 2. Interface Type Manual Select 3. Inactivity Alarm Delay (Secs) 4. Tx Clock Source 5. Tx Clock Polarity 6. X.21 C Mode 7. X.21 I Mode 8. V.35/V.36 RTS (Circuit 105)	3. G.703 Rx Cloci 4. SHDSL Rx Cloc 1. Disabled 2. Enabled 2. Enabled 1. Disabled 1. X.21 2. V.35 3. V.36 0. Disabled 1-100. Alarm Thre 1. From DCE, TC 2. From DTE, ET 1. Normal 2. Inverted 3. Auto 1. Permanent On 2. DTE Driven 1. Permanent On 2. Sync Mode
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.703 Options	ISDN-PRA V3 C. G.,704 CRC-4 Multiframing Timeslot Idle Pattern Spare Bits Insertion to Span Spare Bits Pattern to Span Spare Bits Insertion	1. Disabled 2. Enabled 00h to FFh 1. Disabled 2. Enabled 00h to FFh 1. Disabled 2. Enabled 2. Enabled 2. Enabled 2. Enabled	7. X.21 I Mode	1. Permanent On 2. DTE Driven 1. Permanent On 2. Sync Mode 1. Permanent On
.703 Options	G. 704 CRC-4 Multiframing Timeslot Ide Pattern Spare Bits Insertion to Span Spare Bits Pattern to Span Spare Bits Insertion	2. Enabled 00h to FFh 1. Disabled 2. Enabled 00h to FFh 1. Disabled 2. Enabled 2. Enabled 2. Enabled	7. X.21 I Mode	1. Permanent On 2. DTE Driven 1. Permanent On 2. Sync Mode 1. Permanent On
	Timeslot Idle Pattern Spare Bits Insertion to Span Spare Bits Pattern to Span Spare Bits Insertion	00h to FFh 1. Disabled 2. Enabled 00h to FFh 1. Disabled 2. Enabled 2. Enabled	7. X.21 I Mode	2. DTE Driven 1. Permanent On 2. Sync Mode 1. Permanent On
	Spare Bits Insertion to Span Spare Bits Pattern to Span Spare Bits Insertion	1. Disabled 2. Enabled 00h to FFh 1. Disabled 2. Enabled		1. Permanent On 2. Sync Mode 1. Permanent On
	Spare Bits Pattern to Span Spare Bits Insertion	2. Enabled 00h to FFh 1. Disabled 2. Enabled		2. Sync Mode 1. Permanent On
	Spare Bits Pattern to Span Spare Bits Insertion	2. Enabled 00h to FFh 1. Disabled 2. Enabled		1. Permanent On
	6. Spare Bits Insertion	00h to FFh 1. Disabled 2. Enabled	8. V.35/V.36 RTS (Circuit 105)	
	_ ·	1. Disabled 2. Enabled	6. V.33/V.30 KT3 (Circuit 103)	2 DTF Driven
	_ ·	2. Enabled		2. 0 12 0111011
	_ ·		Í	
	7. Opare Bits I attern		9. V.35/V.36 RTS (Circuit 106)	1. Permanent Off
		00h to FFh		2. Permanent On 3. RTS Driven
	8. RAI Generation	1. Disabled	10. V.35/V.36 RTS to CTS Delay (ms)	
	9. E-bit Generation	2. Enabled	10. V.33/V.30 IXTO to CTS Delay (IIIs)	0 to 255 = Delay in
	10. ES 15-Minute Alarm Threshold	0. Disabled		1. Permanent Off
	11. SES 15-Minute Alarm Threshold	1-900. Seconds	11. V.35/V.36 DSR (Circuit 107)	2. Permanent On
	12. UAS 15 Minute Alarm Threshold	0. Disabled		Permanent On
	13. CVC 15-Minute Alarm Threshold	1-65535. Seconds	12. V.35/V.36 DTR (Circuit 108/2)	2. DTE Driven
x64K Options		1 cccc. ccccnac		Permanent Off
		1.0.10:1.1	13. CVC 15-Minute Alarm Threshold	2. Permanent On
	1. Loopback Types	1. Dual Sided		3. Sync Mode
		2. Transparent 3. Nontransparent		3. Syric Wode
est Options			_1. PN127	
	7	In-band Loopback Protocol	2. V.54	
	2. Inband Loopback Options			
	2. Ilibaria Loopback Options	2. G.703 Services In-band Pattern Detection	1. Disabled	
			Z. Ellabled	
		3 Nx64k In-hand Pattern Detection	1. Disabled	
			2. Enabled	
	3. Loopback Timeout (Min)			
		•		
	4. BERT Pattern	1. ALT		
	5 BERT Pattern Polarity	1. Normal	1. SHDSL Local Loopback	1. Dual Sided
	S. SELT. I ditom I oldiny	2. Inverted	2. SHDSL Remote Loopback	2. Customer Trans
	6. Pushbuttons (All)	1. Disabled	3. SHDSL BERT	3. Customer Non-
HDSI Port	7. SHDSL Port Select Pushbuttons	2. Enabled	4. G.703 Local Loopback	4. Network Transp
		1 Permanent Off	5. G.703 BERT 1 Local Loopback	Network Non-Tr
			6. G.703 Services 2. Remote Inband Loopback	
	5. V.00/V.00 EE (Official 141)		3. BERT	
eset All Status	10. V.35/V.36 TI (Circuit 142)		7. Nx64k Local Loopback	
	,	Z. Test Driven	Nx64k Remote Inband Loopback	
			9. Nx64k BERT	
		1. SHDSL Port		
		2. G.703 Port	* 2-wire mode: 192 khns to 2 304 Mhns (N v 64 kl	bps, where N=3 to 36)
	·	3. Reset All		
			. The mode, of those to mode whips (if x of the	,o.o o.o namb
estart Bad Splice Detector 4 Hour Counts				
i.7 x6 es	start Bad Splice Detector	4. BERT Pattern 5. BERT Pattern Polarity 6. Pushbuttons (All) 7. SHDSL Port Select Pushbuttons 703 Port 703 Services 64K Port 84K Port 84K Port 84K Port 854K Port 864K Port 86	4. BERT Pattern 1.ALT 2. 2047 3. 2E15-1 4. QRSS 5. BERT Pattern Polarity 5. BERT Pattern Polarity 1. Normal 2. Inverted 6. Pushbuttons (All) 7. SHDSL Port Select Pushbuttons 1. Permanent Off 2. Test Driven 1. SHDSL Port 2. G.703 Port 3. Reset All Hour Counts	S. NX94K In-Dated Pattern Detection 2. Enabled 3. Loopback Timeout (Min) 0. Disabled 1-199. Time Out in Minutes 4. BERT Pattern 1. ALT 2. 2047 3. ZE15-1 4. QRSS 5. BERT Pattern Polarity 1. Normal 2. Inverted 2. SHDSL Remote Loopback 2. SHDSL Remote Loopback 3. SHDSL BERT 4. GR95 4. Gr93 Local Loopback 4. Gr93 Local Loopback 4. Gr93 Local Loopback 5. Gr93 BERT 4. Gr93 Local Loopback 4. Gr93 Local Loopback 4. Gr93 Local Loopback 5. Gr93 BERT 4. Gr93 Local Loopback 5. Gr93 BERT 1. Local Loopback 6. Gr93 Services 9. V.35/V.36 RL (Circuit 140) 1. Permanent Off 5. Gr93 BERT 1. Local Loopback 6. Gr93 Services 2. Remote Inband Loopback 6. Gr93 Services 2. Remote Inband Loopback 7. Nx64k Local Loopback 8. Nx64k Remote Inband Loopback 9. Nx64k BERT 1. SHDSL Port 1. SHDSL Port 2. Gr93 Port 4. Gr93 Port

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