

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

JOBAID 61230002L1-22C 0612



DESCRIPTION

The DC Powered ADTRAN 6540 SHDSL 2-Wire/4-Wire NTU (P/N 1230002L1) 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 as either 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 DC 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.



LED INDICATOR FUNCTIONALITY

SHDSL O Off Unit is powered off Green Port is trained; no active alarms Port is trained with a minor active alarm (1) Red Port is not active Port is rained with a major alarm (2) G703 O Off Port is not active Yellow Active Port with no active alarm Yellow Active Port with a minor alarm (3) Red Active Port with a major alarm (4) Nx64K O Off Port is not active Green Green Active Port with no active alarm Red Active Port with a major alarm (5) Red Active Port with no active alarm Green Active Port with an active alarm condition (5) RTS/C Off Port is not active or when active, V.35/V.36 "Request To Send" or X.21 "Control" line from the DTE is off "Control" line from the DTE is on RLSD/I 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. V.35/V.36 "Receive Line Signal Detector" or X.21 "Indication" control line from the NTU (DCE) is on LLOOP Off Lcoal Loop is not active Yellow Active Lo	Label Status		itus	Description				
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• Red Active BERT but the test pattern detector is not synchronized		•	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				

1. 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 G703 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





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

MENU TREE

1 Unit Information	_1. LTU			1. Unit Mode	1. NT
	2. NTU			2. Cross-Connect Map	2. L1
	1 Unit Ontions			3. Clock Source	1. Internal Clock
	1. Unit Options			4. Circuit ID	2. NX64 ETC(113)/X
2. Provisioning		4 links of a set Marila	1. 2-Wire	5. Date and Time	4 SHDSL Rx Clock
	2. SHDSL Options	Interface Mode A Payload Pata (khas) *	2. 4-Wire	6. Restore Factory Defaults	4. SHDSETTA CIOCK
		2. Payload Rale (kops)	0 Disabled	7. Upgrade Firmware	1 Disabled
		3. SNR Margin Alarm Threshold (dB)	1-15 Alarm Threshold	8. Local Management	2. Enabled
				9. Change Password	
		4. Loop Attenuation Alarm Threshold (dB)	U. Disabled	4 Junto of a construction of the state of th	1. Disabled
			1-127. Alarm Threshold		2. Enabled
		5. Outage Auto-Retrain	1. Disabled	2. Interface Type Manual Select	1. X.21
			2. Enabled		2. V.35
		4 EQ 45 Minute Aleres Threadedd	0 Disabled		3. V.36
		6. PM Thresholds	0. Disabled	3 Inactivity Alarm Delay (Secs)	0. Disabled
		2. SES 15-Minute Alarm Threshold	1-900. Seconds		1-100. Alarm Threshold
		4 CVC 15-Minute Alarm Threshold	0. Disabled	4 Tx Clock Source	1. From DCE, TC (Circ
			1-65535. Seconds	4. TX Clock Source	2. From DTE, ETC (Circle)
		5 LOSWS 15-Minute Alarm Threshold	0. Disabled	5 Tx Clock Polority	1. Normal
		6 OS 15-Minute Alarm Threshold	1-900 Seconds	5. TX Clock Polarity	2. Inverted
			1 Dischlad		3. Auto
	3. G.703 Options	1. ISDN-PRA VS	1. Disabled		1. Permanent On
		3 Timeslot Idle Pattern		6. X.21 C Mode	2. DTE Driven
			00h to FFh		1 Permanant On
		4 Spare Bits Insertion to Span	1. Disabled	7. X.21 Mode	2 Sync Mode
		4. Opare Bits Insertion to Opan	2. Enabled		
		5. Spare Bits Pattern to Span	00h to FFh	8. V.35/V.36 RTS (Circuit 105)	1. Permanent On
			1. Disabled		2. DTE Driven
		6. Spare Bits Insertion	2. Enabled		1. Permanent Off
		7. Spare Bits Pattern	00h to EEh	9. V.35/V.36 RTS (Circuit 106)	2. Permanent On
		8 BALGARANTIN	1 Disabled		3. RTS Driven
		8. RAI Generation	1. Disabled	10. V.35/V.36 RTS to CTS Delay (ms)	0 to 255 = Delay in ms
		9. E-bit Generation	0. Disabled		o to 200 - Delay III IIIo
		11 SES 15-Minute Alarm Threshold	1-900 Seconds	11. V.35/V.36 DSR (Circuit 107)	1. Permanent Off
		12. UAS 15 Minute Alarm Threshold			2. Permanent On
		13. CVC 15-Minute Alarm Threshold	U. Disabled	12 V 35/V 36 DTR (Circuit 108/2)	1. Permanent On
	4 Nx64K Options		1-65535. Seconds		2. DTE Driven
	in the fit optione			13 CVC 15-Minute Alarm Threshold	1. Permanent Off
		1 Loonback Types	1. Dual Sided		2. Permanent On
1			2. Transparent		3. Sync Mode
	5. Test Options		3. Nontransparent	1 BN107	
	0. 1000 001010		1. In-band Loopback Protocol	1. PN127	
		2 Inhand Loonback Ontions		1. Di	
			2. G.703 Services In-band Pattern Detection		
			3. Nx64k In-band Pattern Detection	1. Disabled	
			0. Disabled	2. Enabled	
		3. Loopback Timeout (Min)	1-199 Time Out in Minutes		
		4. BERT Pattern	1. ALI		
			2 2515 1		
			1. 0RSS		
		5. BERT Pattern Polarity	1. Normal	1. SHDSL Local Loopback	1. Dual Sided
			Z. Inverted	2. SHDSL Remote Loopback	2. Customer Transparer
		6. Pushbuttons (All)	1. Disabled	3. SHDSL BERT	3. Customer Non-Trans
3 Status	1. SHDSL Port	7. SHDSL Port Select Pushbuttons	2. Enabled	4. G./U3 LOCAL LOOPDACK	4. Network Iransparent
3. Status	2. G.703 Port	8. V.35/V.36 RL (Circuit 140)	1. Permanent Off	5. G. / US BERT 1. Local Loopback	5. Network Non-Transpa
	3. G.703 Services	9. V.35/V.36 LL (Circuit 141)	2. DTE Driven	2. Remote Inband Loopback	
	4. Nx64K Port		1. Permanent Off	3. BERT	
	5. Reset All Status	TU. V.35/V.36 TI (Circuit 142)	2. Test Driven	7. INX04K Local Loopback	
4. Test					
			1 SHDSL Port	J. NAUHA DERT	
Lb Porformance History			2 G 703 Port	* 0 when much 100 \	
5. Fellolillarice History			2. 0.1001 01	2-wire mode: 192 kbps to 2 304 Mbps (N x 64 kbps)	pps, where N=3 to 36)
a Toony	1. Restart Bad Splice Det	lector	3. Reset All		han ushan Nanuna ana '
6. TSCAN	1. Restart Bad Splice Det 2. 24 Hour Counts	tector	3. Reset All	4-wire mode: 384 kbps to 4.608 Mbps (N x 64 kl	bps, where N=even numbers,
6. TSCAN	1. Restart Bad Splice Det 2. 24 Hour Counts	tector	3. Reset All	4-wire mode: 384 kbps to 4.608 Mbps (N x 64 kb	bps, where N=even numbers, €

Warranty: ADTRAN will replace or repair this product within the warranty period if it does not meet its published specifications or fails while in service. Warranty information can be found online at <u>www.adtran.com/warranty</u>.