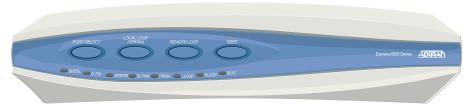


6542 SHDSL 2-Wire/4-Wire NTU, Span or DC Powered



6542 Front Panel

DESCRIPTION

The Span or DC Powered ADTRAN 6542 SHDSL 2-Wire/4-Wire NTU (P/N 1230009L1) 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 6542 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 6542 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 6542 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.



6542 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)			
SPN PWR	0	Off	Unit is not SHDSL span powered			
	•	Green	Unit is SHDSL span powered			
DC PWR	0	Off	Unit is not DC powered			
	Green	Green	Unit is DC powered			
PRGM	0	Off	Firmware is not being programmed			
		Green	Local unit firmware is being locally programmed			
		Yellow	Remote unit firmware is being locally programmed			
	•	Red	Local unit formware is being remotelt programmed			
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 Threshold Alarm
- 4. Major G.703 port alarms: LOS, LOF, LOMF, Rx AIS, or HBER



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PRICING AND AVAILABILITY 800.827.0807 TECH SUPPORT 800.726.8663 RETURN FOR REPAIR 256.963.8722 www.adtran.com 61230009L1-22B

MENU TREE

Unit Information	1. LTU 2. NTU	* 2-wire mode: 192 kbps to 2.304 Mbps (N x 64 kbps, v	where N=3 to 36)	1. Unit Mode	1. NT 2. LT
	2. NTO	4-wire mode: 384 kbps to 4.608 Mbps (N x 64 kbps, v		2. Cross-Connect Map	Internal Clock
	1. Unit Options		,	3. Clock Source	2. Nx64 ETC(113)/
2. Provisioning				4. Circuit ID	3. G.703 Rx Clock
2.11001310111119		1. Interface Mode	1. 2-Wire	5. Date and Time	4. SHDSL Rx Cloc
	2. SHDSL Options	2. Payload Rate (kbps) *	2. 4-Wire	Restore Factory Defaults	
			0. Disabled	7. Upgrade Firmware	1. Disabled
		SNR Margin Alarm Threshold (dB)	1-15. Alarm Threshold	8. Local Management	2. Enabled
			0. Disabled	9. Change Password	
		4. Loop Attenuation Alarm Threshold (dB)	1-127. Alarm Threshold		
		5. Outage Auto-Retrain	1. Disabled		
			2. Enabled		
			1. ES 15-Minute Alarm Threshold	0. Disabled	
		6. PM Thresholds	2. SES 15-Minute Alarm Threshold	1-900. Seconds	
			3. UAS 15-Minute Alarm Threshold	0. Disabled	
			4. CVC 15-Minute Alarm Threshold	1-65535. Seconds	
			5. LOSWS 15-Minute Alarm Threshold	0. Disabled	
			6. OS 15-Minute Alarm Threshold	1-900. Seconds	
		1. ISDN-PRA V3	1. Disabled		
	3. G.703 Options	2. G.704 CRC-4 Multiframing	2. Enabled		
		3. Timeslot Idle Pattern			
			00h to FFh		
		4. Spare Bits Insertion to Span	1. Disabled		
		5. Spare Bits Pattern to Span	2. Enabled		
		o. oparo bito i attornito opari	00h to FFh		
		6. Spare Bits Insertion	1. Disabled		
		7. Spare Bits Pattern	2. Enabled		
		7. Spare Bits Pattern	00h to FFh		
		8. RAI Generation	1. Disabled		
		9. E-bit Generation	2. Enabled		
		10. ES 15-Minute Alarm Threshold	0. Disabled		
		11. SES 15-Minute Alarm Threshold	1-900. Seconds		
		12. UAS 15 Minute Alarm Threshold	0. Disabled		
		13. CVC 15-Minute Alarm Threshold	1-65535. Seconds		
			,		
		1. Loopback Types	1. Dual Sided		
		1. 200pbdok Typoo	2. Transparent		
	4. Test Options		3. Nontransparent		
			1. In-band Loopback Protocol	1. PN127	
		2. Inband Loopback Options	1. III-band Edopback i Tolocol	2. V.54	
		2. mound coopback Options		1. Disabled	
			2. G.703 Services In-band Pattern Detection	2. Enabled	
		L	0. Disabled		
		3. Loopback Timeout (Min)	1-199. Time Out in Minutes		
			1. ALT		
		4. BERT Pattern	2. 2047		
			3. 2E15-1		
	1. SHDSL Port		4. QRSS		
3. Status	2. G.703 Port		1. Normal		
	3. G.703 Services	5. BERT Pattern Polarity	2. Inverted		
	4. Reset All Status		1. Disabled		
		6. Pushbuttons (All)	2. Enabled	1. SHDSL Local Loopback	1. Dual Sided
				2. SHDSL Remote Loopback	2. Customer Trans
		7. SHDSL Port Select Pushbuttons	1. Disabled	3. SHDSL BERT 4. G.703 Local Loopback	3. Customer Non-T 4. Network Transpa
			2. Enabled	F 0 700 DEDT	5. Network Transpa
4. Test				5. G.703 BER1 1. Local Loopback 6. G.703 Services 2. Remote Inband Loopback	
			1. SHDSL Port	2. Remote Inband Loopback 3. BERT	
5 Performance History			2. G.703 Port	O. BEIG	
5. Performance History					
Performance History 6. TSCAN	Restart Bad Splice Dete 2. 24 Hour Counts	ector	3. Reset All		