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

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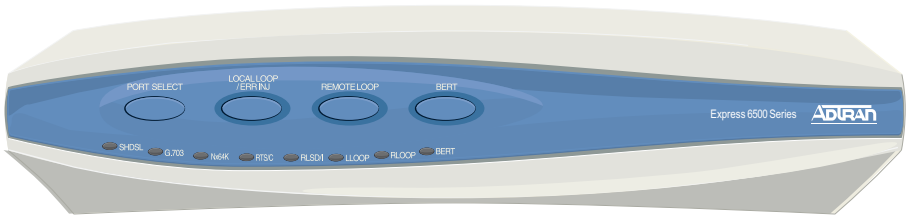
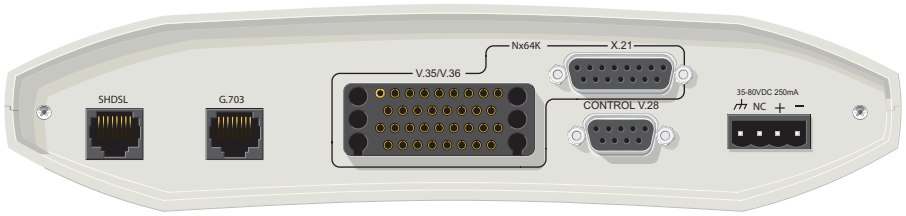


6540 Front Panel



6540 Rear Panel

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

Label	Status		Description
SHDSL	○	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	○	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	○	Off	Port is not active
	●	Green	Active Port with no active alarm
	●	Red	Active Port with an active alarm condition (5)
RTS/C	○	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	○	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	○	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	○	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	○	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

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
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
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
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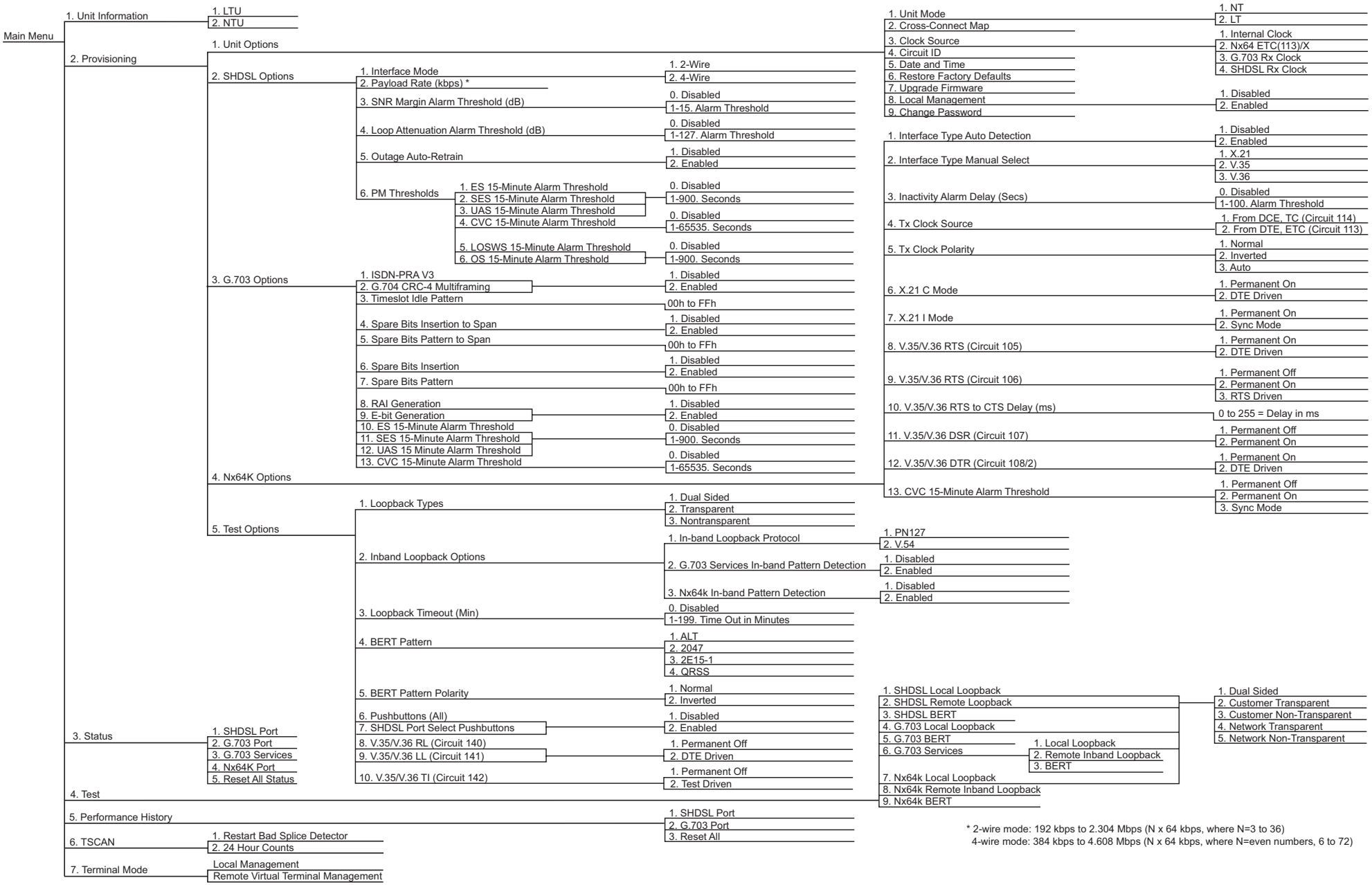
MENU TREE



* 2-wire mode: 192 kbps to 2.304 Mbps (N x 64 kbps, where N=3 to 36)
4-wire mode: 384 kbps to 4.608 Mbps (N x 64 kbps, where N=even numbers, 6 to 72)

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 www.adtran.com/warranty.