6543 SHDSL 2-Wire/4-Wire LTU

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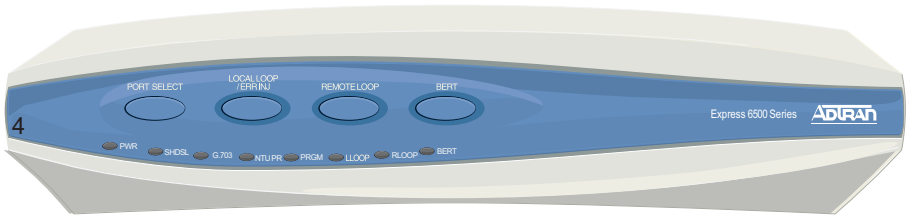

6543 Front Panel

6543 Rear Panel

DESCRIPTION

The ADTRAN 6543 SHDSL 2-Wire/4-Wire Line Terminating Unit (LTU) provides 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 6543 works with the SHDSL NTU in a point-to-point limited distance configuration.

COMPLIANCE

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

FEATURES

The 6543 is housed in a stand-alone plastic case having the features listed below:

- Eight LED indicators and four recessed pushbuttons on the front panel (refer to the tables below)
- SHDSL Line Aggregate Data Rate is 200 kbps to 2.056 Mbps (N × 64 kbps + 8 kbps, where N = 3 to 32). In 2-wire mode, 8 kbps of bandwidth is required for overhead framing.
- Payload Data Rate is 192 kbps to 2.048 Mbps (N × 64 kbps, where N = 3 to 32)
- Service Data Rate is 64 kbps to 2.048 Mbps (N × 64 kbps, where N = 1 to 32)
- 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 Line Terminating Unit (LTU) Installation and Maintenance Practice*, P/N 61230011L1-5)

Pushbutton Functionality

Pushbutton	Description
PORT SELECT	Press the SELECT button to sequentially select active ports in the following order: Nx64k port, G.703 port, SHDSL port, and then cycle back to "No Port."
LOCAL LOOP/ ERR INJ	With a port selected, and a BERT (Bit Error Rate Test) is not in progress, press this button to initiate or terminate a local loop on the selected port. If a BERT is in progress, press the button again to inject a single bit error.
REMOTE LOOP	With the SHDSL port selected, press the button to either place or remove a remote loop on the port. This is done by sending a EOC request message to the NTU. If the G.703 port (with only one service defined) is selected, press the button to place/remove a remote loop on the single data service of that port. This is done 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 button to start or stop a BERT on the selected port.

LED Indicator Functionality

Label	Status		Description
PWR	○	Off	Unit is not powered
	●	Green	Unit is powered
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]
NTU PR	○	Off	NTU is not present
	●	Green	NTU is present
PRGM	○	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 firmware is being remotely programmed
LLOOP	○	Off	No local loop is 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 are 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 are LOS, LOSW, or Segment Defect.

[3] Minor G.703 port alarms are 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 are LOS, LOF, LOMF, Rx AIS, or HBER.

CE

A complete Installation and Maintenance Practice (P/N 61230011L1-5) can be found at www.adtran.com. Enter the desired P/N in the search field.

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PRICING AND AVAILABILITY 800.827.0807
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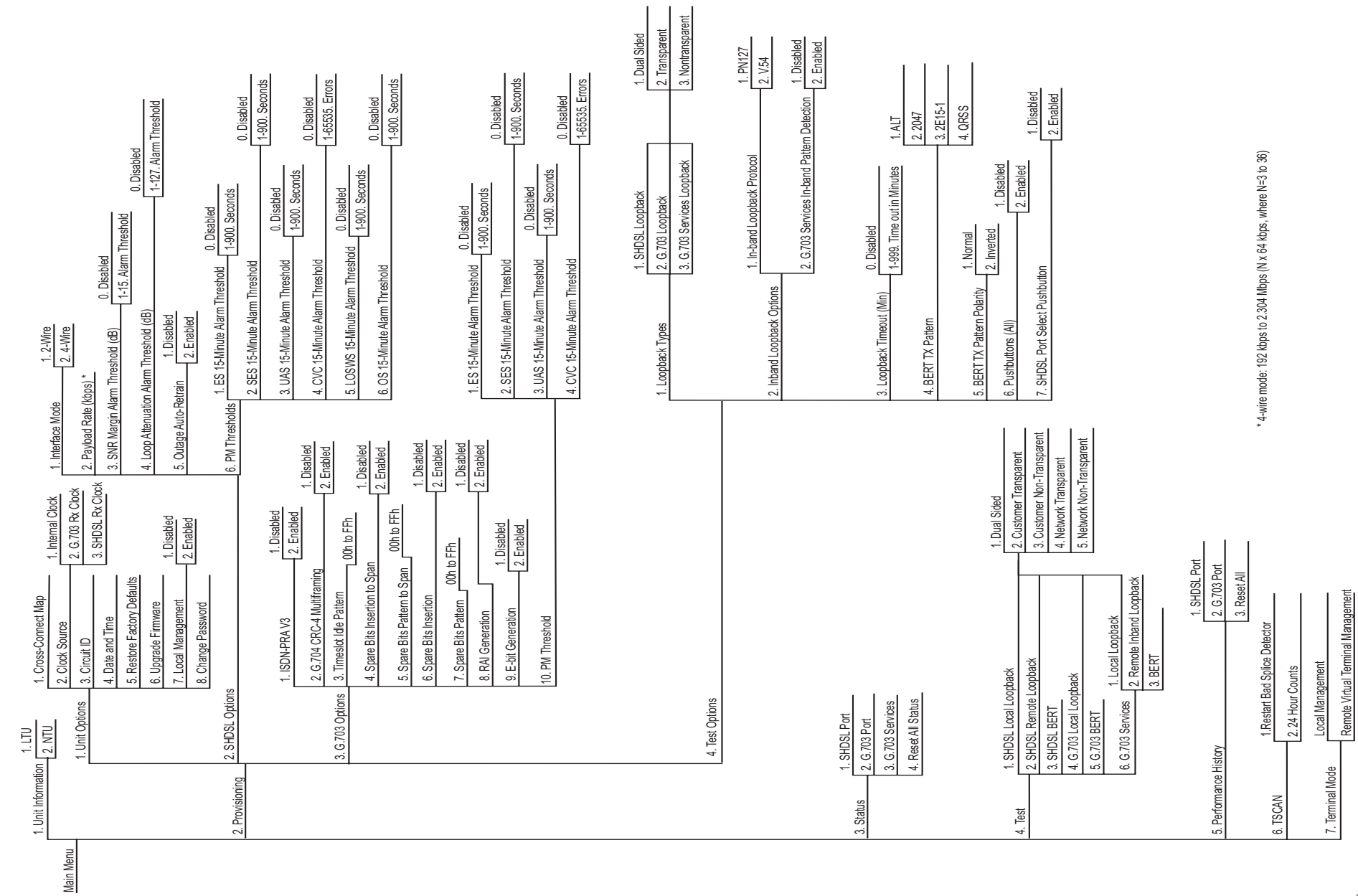

Warranty: ADTRAN will replace or repair this product within the warranty period if it does not meet its published specifications or fails while in service. Warranty information can be found at www.adtran.com/warranty.