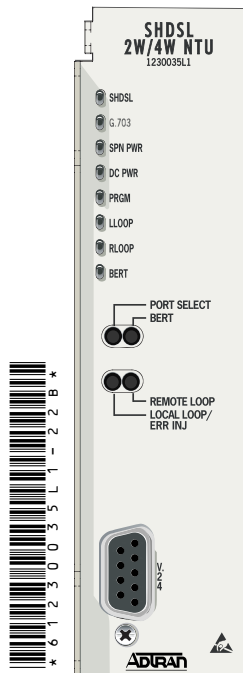


**SHDSL
T400 SHDSL
2-Wire/4-Wire
NTU**
P/N: 1230035L1



DESCRIPTION

The ADTRAN T400 SHDSL 2-Wire/4-Wire NTU (P/N 1230035L1) functions as an interface between the SHDSL network and the Data Terminal Equipment for applications such as LAN-to-LAN bridging, Frame Relay circuit, and PABX termination. The NTU functions as a remote unit to the ADTRAN Total Access® 3000 multiservice platform.

FEATURES

The T400 SHDSL 2-Wire/4-Wire NTU has the features listed below:

- ◆ Eight LED indicators and four recessed pushbuttons on the front panel, described in the tables below
- ◆ Local management port
- ◆ 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 SELECT button to sequentially select active ports in the following order: 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, then press this 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	With the SHDSL port selected, press this button to place or to remove a remote loop on the port. This is done by sending a EOC request message to the LTU (or NTU in campus mode). If the G.703 port (with only one service defined) is selected, press the button to place or remove a remote loop on the single data service of the selected 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 this button to start or to stop a BERT on the selected port.

COMPLIANCE

The T400 SHDSL 2-Wire/4-Wire NTU complies with the following international standards:

- ◆ EN 300 386-2
- ◆ IEC 60950/EN 60950/AS NZS60950
- ◆ S016
- ◆ S043.2
- ◆ TBR12
- ◆ TBR13
- ◆ ITU G991
- ◆ ETSI 300-019

LED INDICATORS

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⁾
SPN PWR	○ Off	Unit is not SHDSL span powered
	● Green	Unit is SHDSL span powered
DC PWR	○ Off	Unit is not locally DC powered
	● Green	Unit is locally DC powered
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.

V.24 DB-9 CONNECTOR

This connector is used to access performance monitoring data, perform loopbacks, and provision units via VT100 emulation applications, such as Hyperterminal - Private Edition.

Provision Terminal Port for VT100

When using a PC with terminal software, be sure to disable any power saving programs.

- ◆ Data Rate = 2.4 to 115.2 kbps
- ◆ Asynchronous Data Format = eight data bits, no parity (none), one stop bit



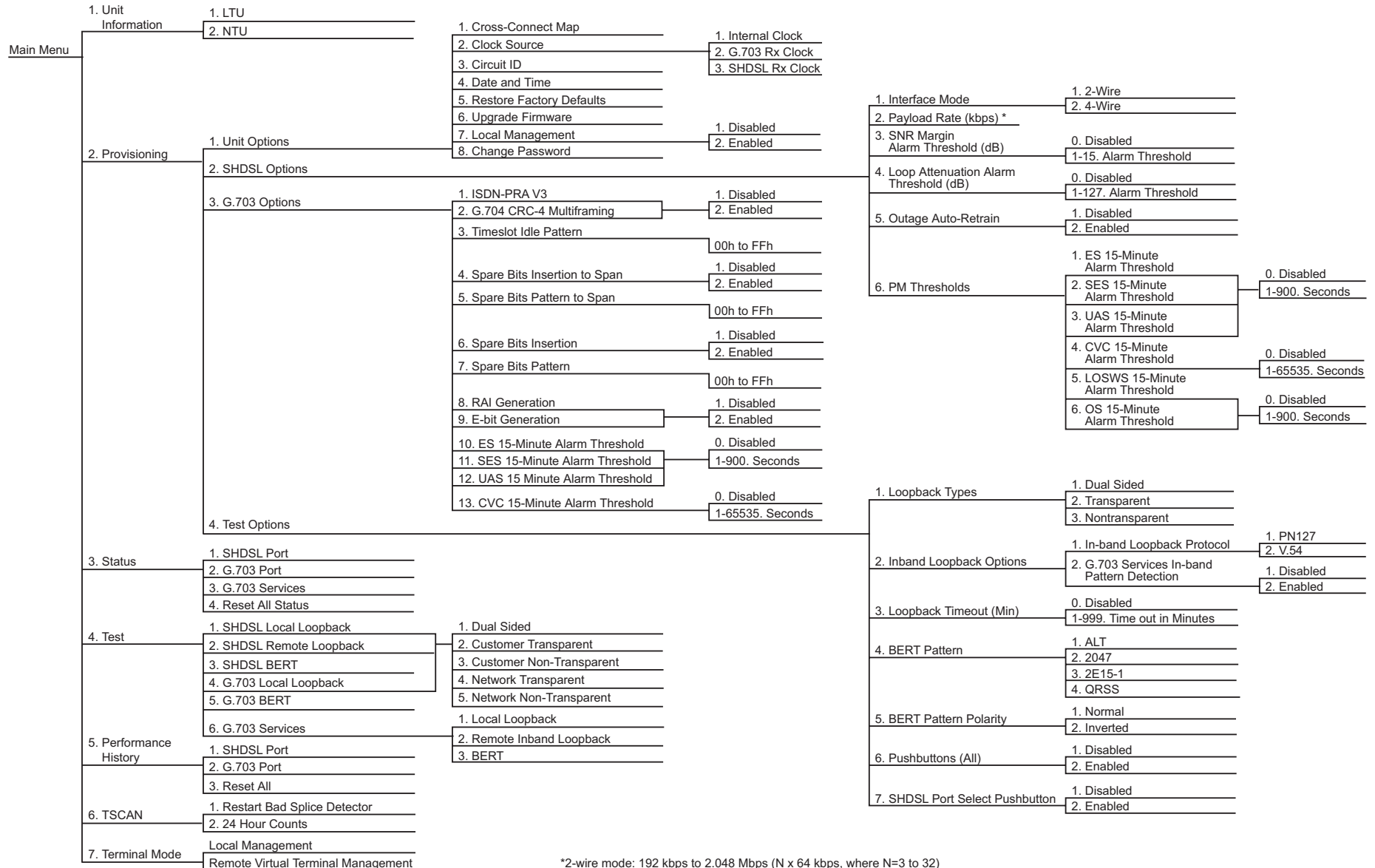


T400 SHDSL 2-Wire/4-Wire NTU, Span or DC Powered

PRICING AND AVAILABILITY 800.827.0807
 TECH SUPPORT 800.726.8663
 RETURN FOR REPAIR 256.963.8722
 www.adtran.com
 61230035L1-22B

MENU TREE

The menus and options accessed through the DB-9 craft port are shown on the rear panel.



*2-wire mode: 192 kbps to 2.048 Mbps (N x 64 kbps, where N=3 to 32)
 4-wire mode: 384 kbps to 2.048 Mbps (N x 64 kbps, where N=even numbers, 6 to 32)

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.