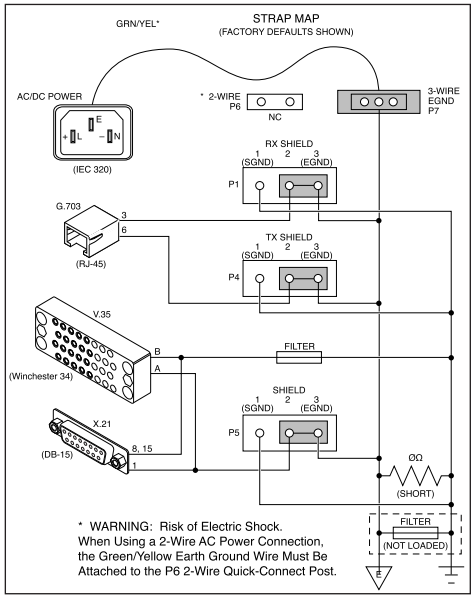
EXPRESS 6530 SHDSL NxNTU

JOBAID
61225001L1-22F
0205

EXPRESS 6530 SHDSL NxNTU

CAUTION!
SUBJECT TO ELECTROSTATIC DAMAGE OR DECREASE IN RELIABILITY. HANDLING PRECAUTIONS REQUIRED.

6 1 2 2 5 0 0 1 L 1 - 2 2 F



FRONT PANEL LED INDICATORS

SHDSL	○ Off	Main Power off
	● Green	Trained with good signal quality
	● Amber	Trained with marginal signal quality
	● Red	Training or attempting to train with poor signal quality and/or a major port alarm is active
G.703	○ Off	Service not configured
	● Green	Service configured and interface is operating normally
	● Amber	Service is configured and has minor alarms: RAI; Slip; CRC-4 errors; LBER (10E-6 BER)
	● Red	Service configured and interface is not operating normally; LOS; AIS; LOA; HBER (10E-3 BER)
Nx64k	○ Off	Service not configured
	● Green	Service configured and interface is operating normally
	● Red	Service configured and interface is not operating normally due to alarms present, DTR Off, or cabling problem
RTS/C	○ Off	Nx64k service not configured or RTS/C control line is OFF
	● Green	RTS/C control line (from DTE) is ON
RLSD/I	○ Off	Nx64k service not configured for RLSD/I control line is OFF
	● Green	RLSD/I control line (from DCE) is ON
LLOOP	○ Off	No loop present
	● Amber	A local loop is active on the selected port (activated from any source)
	● Red	A local loop is active on one or more ports or G.703 services; no port selected (activated from any source)
RLOOP	○ Off	No loop present
	● Amber	A remote loop is active on the selected port (activated from any source)
	● Red	A remote loop is active on one or more ports or G.703 services ; no port selected (activated from any source)
BERT	○ Off	No BERT
	● Green	BERT OK; pattern synchronized
	● Amber	BERT bit errors
	● Red	BERT pattern not synchronized

FRONT PANEL PUSHBUTTONS

Label	Description
PORT SELECT	On each successive press, the port select will cycle through Nx64k, G.703, SHDSL, and No Selection. When a port is chosen, the corresponding LED will blink. Only the ports that are enabled can be selected.
LOCAL LOOP/ERR INJ	If a port is selected, and a BERT is not in progress then pressing the button will initiate/terminate a local loopback test on the selected port. If a BERT is in progress, then pressing the button injects a single bit error.
REMOTE LOOP	If a port is selected and a BERT or local loop is not in progress then pressing the "Remote Loop" button places or removes a remote loop on the selected port.
BERT	If a port is selected and there are no local loops, then pressing the button will start or stop a BERT on the selected port.

Note: The Port Select button will not operate if any locally initiated tests are in progress.

BACKPLANE PORT PIN ASSIGNMENTS

SHDSL Port

Interchange Name	Description	Pinout
N/C	No connection	1, 2, 3
tip	SHDSL tip	4
ring	SHDSL ring	5
N/C	No connection	6, 7, 8

Local Management Port

Interchange		
Name	Description	Pinout
DCD	Data Carrier Detect – Internally connected to DTR and DSR	1
RXD	Receive Data	2
TXD	Transmit Data	3
DTR	Data Terminal Ready – Internally connected to DCD and DSR	4
GND	Signal Ground	5
DSR	Data Set Ready – Internally connected to DCD and DTR	6
RTS	Ready To Send – Internally connected to CTS	7
CTS	Clear To Send – Internally connected to RTS	8
NC	No connection	9

G.703 Port (120 Ω Balanced)

Pin	Function
1	Receive pair (ring)
2	Receive pair (tip)
3	Receive shield
4	Transmit pair (ring)
5	Transmit pair (tip)
6	Transmit shield
7	NC
8	NC

V.35 Port

Circuit		To/From	Pinout
No.	Circuit Name	DCE	(A/B)
102	Signal Ground		B
103	Transmit Data	To	P/S
104	Receive Data	From	R/T
105	Request To Send	To	C
106	Clear To Send	From	D
107	Data Set Ready	From	E
108/2	Data Terminal Ready	To	H
109	Received Line Signal Detect	From	F
113	Transmit Signal Element Timing	To	U/W
114	Transmit Signal Element Timing	From	Y/AA
115	Receive Signal Element Timing	From	V/X
140	Remote Loopback	To	N
141	Local Loopback	To	L
142	Test Indicator	From	NN

V.36 Port (Via Adapter)

Circuit		To/From	Pinout
No.	Circuit Name	DCE	(A/B)
102, 102a, 102b	Signal Ground		19, 37, 20
103	Transmit Data	To	4/22
104	Receive Data	From	6/24
105	Request To Send	To	7/25
106	Clear To Send	From	9/27
107	Data Set Ready	From	11/29
108/2	Data Terminal Ready	To	12/30
109	Received Line Signal Detect	From	13/31
113	Transmit Signal Element Timing	To	17/35
114	Transmit Signal Element Timing	From	5/23
115	Receive Signal Element Timing	From	8/26
140	Loopback/Maintenance	To	14
141	Local Loopback	To	10
142	Test Indicator	From	18

X.21 Port

Signal		To/From	Pinout
Name	Description	DCE	(A/B)
G	Signal Ground		8
Ga	DTE Common Return		15
T	Transmit	To	2/9
R	Receive	From	4/11
C	Control	To	3/10
I	Indication	From	5/12
RTS	Signal Element Timing	From	6/13
CTS	DTE Signal Element Timing	To	7/14
–	Shield Ground Option	–	1

G.703 (75 Ω Adapter)

RJ-45	SW1	SW2	BNC	
Pin	Pin	Pin	Pin	Function
1	2		RX shield	Receive pair (ring)
2			RX center	Receive pair (tip)
3	1	1		Chassis Gnd
4		2	TX shield	Transmit pair (ring)
5			TC center	Transmit pair (tip)
6	1	1		Chassis Gnd
7				NC
8				NC

■ For a complete Installation and Maintenance Practice (P/N 61225001L1-5): (877) 457-5007, faxback Document 719. Please have your fax number available. ■

EXPRESS 6530 SHDSL NxNTU MENU TREE

PRICING AND AVAILABILITY 800.827.0807
TECHNICAL SUPPORT 800.726.8663
RETURN FOR REPAIR 256.963.8722
www.adtran.com
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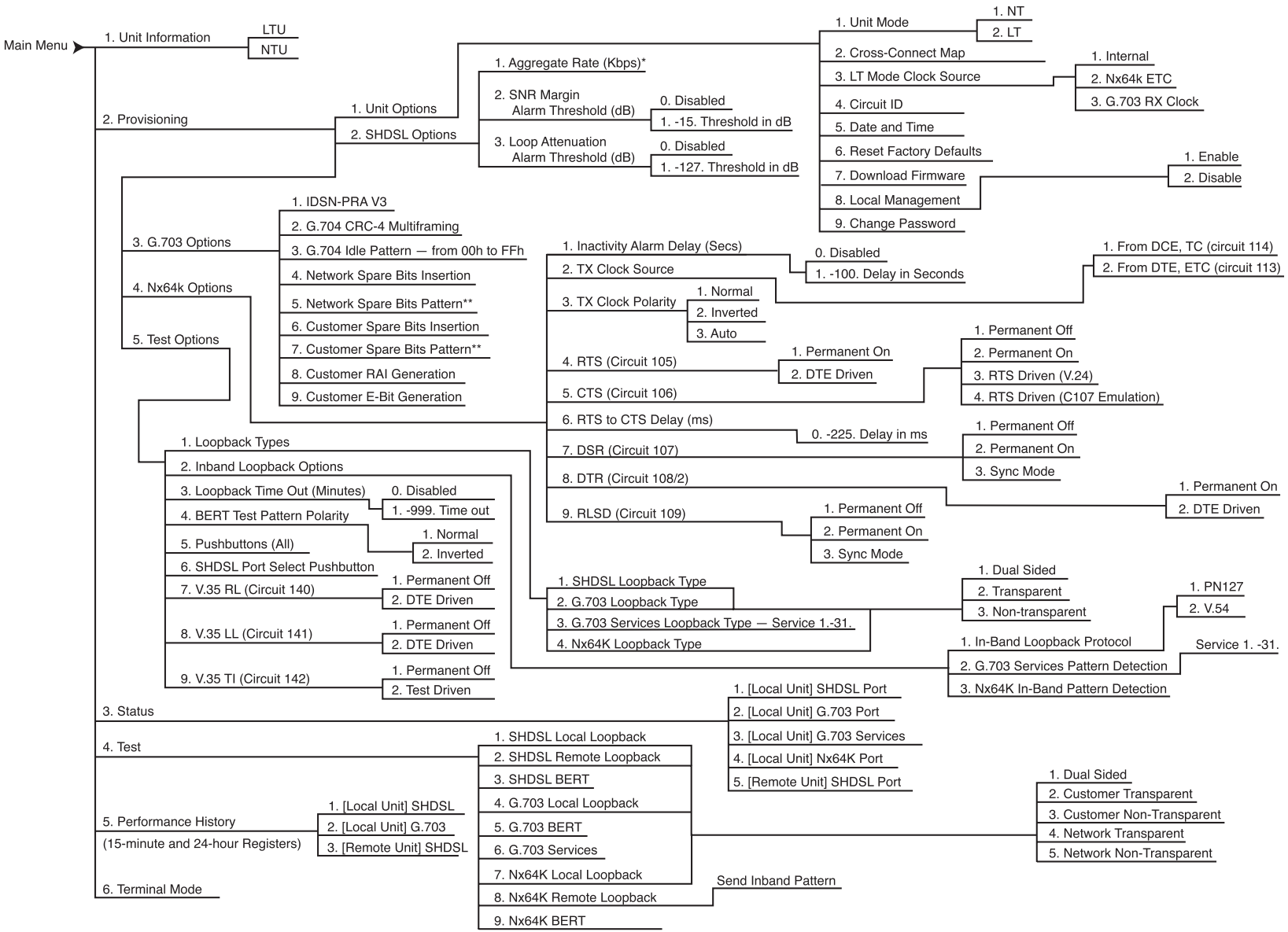
The system menus can be accessed via the V.28 control port. The terminal must be VT100 compatible and set for 2.4 to 57.6 kbps, 8 data bits, no parity, 1 stop bit, no flow control.



NOTE: * Enter a new value for N from 3 to 36, where the aggregate rate (Kbps) = (Nx64) + 8
** From 00h to 31h for static condition of NFAS spare bits (0, 0, 0, Sa4, Sa5, Sa6, Sa7, Sa8)

WARRANTY

Warranty for Carrier Networks products manufactured by ADTRAN and supplied under Buyer's order for international use is five (5) years. For a complete faxback copy of ADTRAN's *International Equipment Warranty:* (877) 457-5007, Document #583.