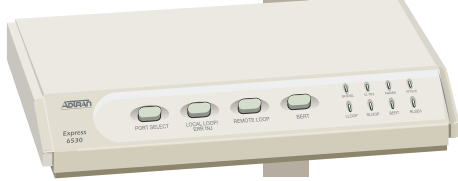


## EXPRESS 6530 SHDSL NxNTU



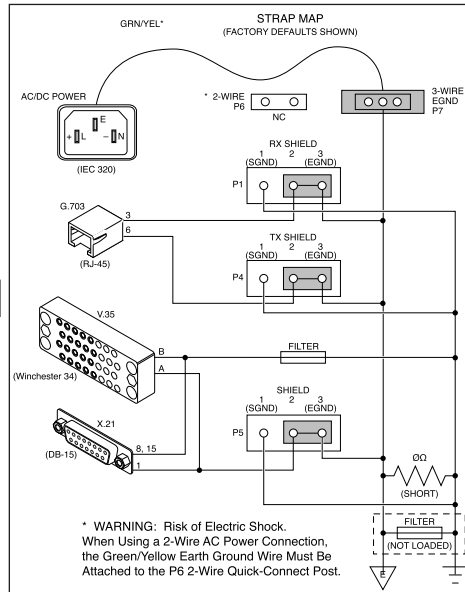
### FRONT PANEL LED INDICATORS

- 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

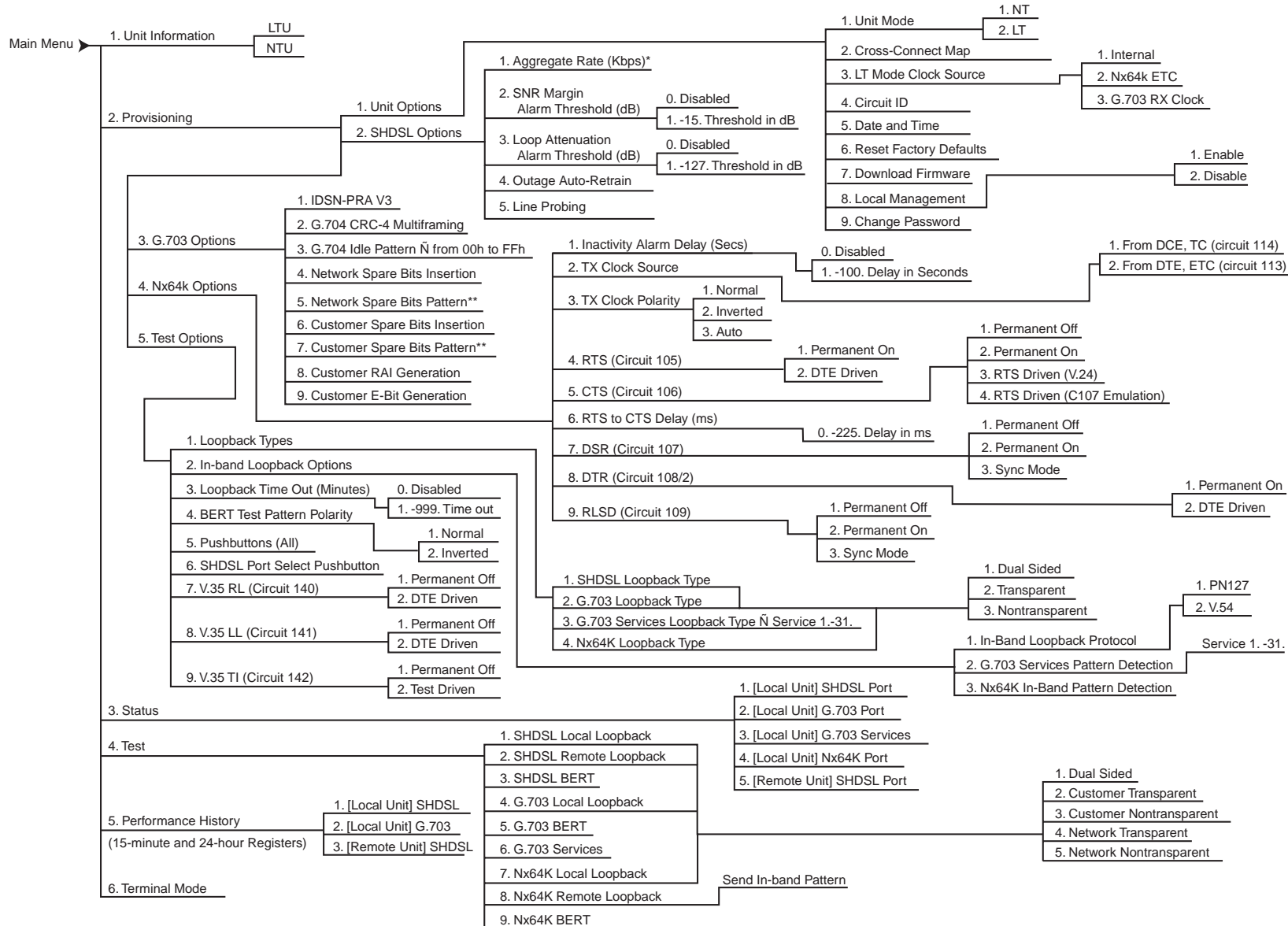
Local Management Port			G.703 Port (120 Ω Balanced)	
Name	Description	Pinout	Pin	Function
DCD	Data Carrier Detect – Internally connected to DTR and DSR	1	1	Receive pair (ring)
RXD	Receive Data	2	2	Receive pair (tip)
TXD	Transmit Data	3	3	Receive shield
DTR	Data Terminal Ready – Internally connected to DCD and DSR	4	4	Transmit pair (ring)
GND	Signal Ground	5	6	Transmit pair (tip)
DSR	Data Set Ready – Internally connected to DCD and DTR	6	7	Transmit shield
RTS	Ready To Send – Internally connected to CTS	7	8	NC
CTS	Clear To Send – Internally connected to RTS	8	8	NC
NC	No connection	9		

V.35 Port				V.36 Port (Via Adapter)			
Circuit No.	Circuit Name	To/From	Pinout DCE (A/B)	Circuit No.	Circuit Name	To/From	Pinout DCE (A/B)
102	Signal Ground		B	102, 102a, 102b	Signal Ground		19, 37, 20
103	Transmit Data	To	P/S	103	Transmit Data	To	4/22
104	Receive Data	From	R/T	104	Receive Data	From	6/24
105	Request To Send	To	C	105	Request To Send	To	7/25
106	Clear To Send	From	D	106	Clear To Send	From	9/27
107	Data Set Ready	From	E	107	Data Set Ready	From	11/29
108/2	Data Terminal Ready	To	H	108/2	Data Terminal Ready	To	12/30
109	Received Line Signal Detect	From	F	109	Received Line Signal Detect	From	13/31
113	Transmit Signal Element Timing	To	U/W	113	Transmit Signal Element Timing	To	17/35
114	Transmit Signal Element Timing	From	Y/AA	114	Transmit Signal Element Timing	From	5/23
115	Receive Signal Element Timing	From	V/X	115	Receive Signal Element Timing	From	8/26
140	Remote Loopback	To	N	140	Loopback/Maintenance	To	14
141	Local Loopback	To	L	141	Local Loopback	To	10
142	Test Indicator	From	NN	142	Test Indicator	From	18

X.21 Port				G.703 (75 Ω Adapter)				
Signal Name	Description	To/From	Pinout DCE (A/B)	RJ-45 Pin	SW1 Pin	SW2 Pin	BNC Pin	Function
G	Signal Ground		8	1	2			RX shield
Ga	DTE Common Return		15	2				RX center
T	Transmit	To	2/9	3	1	1		Chassis Gnd
R	Receive	From	4/11	4		2		TX shield
C	Control	To	3/10	5				TC center
I	Indication	From	5/12	6	1	1		Chassis Gnd
RTS	Signal Element Timing	From	6/13	7				NC
CTS	DTE Signal Element Timing	To	7/14	8				NC
-	Shield Ground Option	-	1					

■ For a complete Installation and Maintenance Practice (P/N 61225101L1-5): (877) 457-5007, faxback Document 809. Please have your fax number ready. ■

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 1Fh for static condition of NFAS spare bits (0, 0, 0, Sa4, Sa5, Sa6, Sa7, Sa8)

