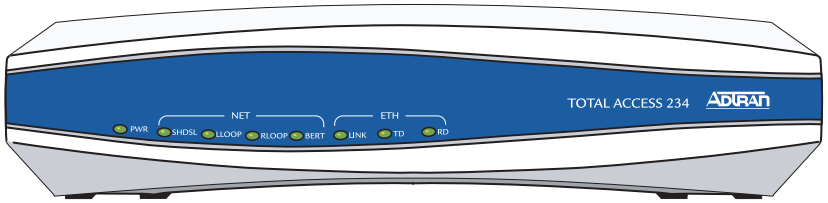
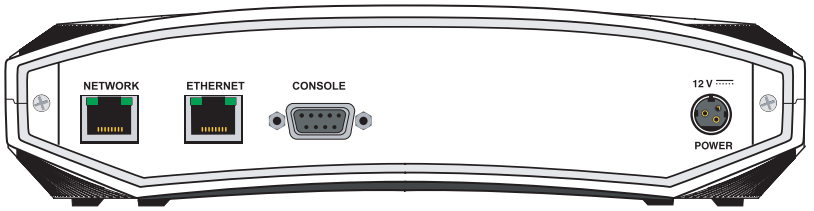
ADTRAN
Quick Start Guide

TOTAL ACCESS 234 SHDSL NTU

P/N 1200708L1





Connect the Console Interface

Before connecting to the Total Access 234 console interface, you will need the following items: VT100 terminal or PC (with VT100 terminal emulation software) and a straight through serial cable with a DB-9 (male) connector on one end and the appropriate interface for your terminal (or PC) on the other.

1. Connect the DB-9 (male) connector of your serial cable to the console port on the rear panel of the unit.
2. Connect the loose end of the serial cable to the VT100 terminal or PC (with terminal emulation software).
3. Open a VT100 terminal session to the Total Access 234 using the following settings: 9600 baud, 8 data bits, no parity bits, and 1 stop bit. Press <Enter> to activate the ADTRAN Command Line Interface (CLI).

Specifications

DC Input Power	12 VDC nominal (8.5 VDC min, 18 VDC max); ITU-T standards: G.991.2
Diagnostics & Test	Self-diagnosis; local loopback; remote loopback
EMC Emissions	EN55022:1998 Class B; FCC Part 15 Class B
EMC Immunity, Power Fault, and Lightning	EN55024:1998; EN61000-3-2; EN61000-3-3; Telstra 1563; K.21 (2004) Enhanced
Electrical Safety	EN60950; AS/NZS 60950; UL60950 3rd ed.; CSA C22.2 No. 60950 3rd ed.; IEC 60950 CB Scheme
Telecom	S043.2; G.991.2
Environmental	Operating Temp: 0ºC to 50ºC; Storage Temp: -20ºC to 70ºC
	***Note:** No stacking should be done at 50ºC. Up to three units can be stacked at room temperature.*
	Humidity: 95 percent noncondensing
Dimensions	9.3 inches W x 2.1 inches H x 6.1 inches D
Connectors	SHDSL Port: RJ-45; 135 ohms; TNV-3 rated
	10/100BaseT Ethernet: RJ-45
	Console Port: DB-9 female
	Power Input: Kycon KPJ-3S snap & lock or equivalent

Configure Gateway IP Addresses/Subnet Mask

Configure the Gateway IP addresses and subnet mask by following these steps. If you are not sure what IP address to assign, please contact your network administrator.

1. Enter **enable** to activate the Enable command security mode.
2. When prompted, enter the enable password (if configured).
3. Enter **config terminal** to activate the Global configuration mode.
4. Enter **bre lan-gw *10.26.12.12* wan-gw *100.26.12.12* mask *255.255.255.0**** to assign LAN and WAN Gateway IP addresses and subnet mask.
   ***Note:** Underlined text represents example entries only. Modify them to match your configuration.*
5. Enter **exit** to return to the Enable configuration mode.
6. Enter **copy running-config startup-config** to save the running configuration to the unit's non-volatile memory (NVRAM).

Features

- One integrated EIA-232 configuration port (DCE)
- One integrated 10/100BaseT Ethernet port
- 2-Wire/4-Wire SHDSL interface
- WAN Protocol: ATM
- Command Line Interface (CLI)
- Management - EOC/CLI using Virtual Terminal
- Front panel LEDs
- Wall mounting available with additional parts

WARNING *Table standoff cannot be used with this unit.*

Technical Support 1-888-4ADTRAN or +1-256-963-8716

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TOTAL ACCESS 234 LEDS

LED	Color	Indication
PWR	Off	No power present.
	Green (solid)	Power present.
SHDSL	Off	Unit is powered off.
	Green (solid)	Port is trained with no active alarm conditions.
	Yellow (solid)	Port is trained with minor active alarm condition.
	Red (solid)	Port is attempting to train or is trained with a major alarm condition.
LLOOP	Off	No local loop is active.
	Red (solid)	A local loop is active.
RLOOP	Off	No remote loop is active.
	Red (solid)	A remote loop is active.
BERT	--	Not applicable with this product.
LNK	Off	No Ethernet link present.
	Green (solid)	The 10BaseT Ethernet link is up.
	Yellow (solid)	The 100BaseT Ethernet link is up.
TD	Off	No transmit activity on Ethernet port.
	Green (blinking)	Transmit activity on Ethernet port.
RD	Off	No receive activity on Ethernet port.
	Green (blinking)	Receive activity on Ethernet port.

10/100BASET ETHERNET PORT PINOUT

Pin	Name	Description
1	TX1	Transmit Positive
2	TX2	Transmit Negative
3	RX1	Receive Positive
4,5	—	Unused
6	RX2	Receive Negative
7,8	—	Unused

CONSOLE PORT PINOUT

Pin	Name	Description
1	DCD	Data Carrier Detect (output)
2	RD	Receive Data (output)
3	TD	Transmit Data (input)
4	DTR	Data Terminal Ready (input)
5	SG	Signal Ground
6	DSR	Data Set Ready **Tied to pin 1** (output)
7, 9	—	Unused
8	CTS	Clear to Send **Tied to pin 1** (output)

WAN-SHDSL NETWORK PINOUT (RJ-45)

Pin	Name	Description
1	Tip 2	4-wire Loop 2 Pair Tip
2	Ring 2	4-wire Loop 2 Pair Ring
3	—	Not connected
4	Tip 1	2-wire Pair Tip, 4-wire Loop 1 Pair Ring
5	Ring 1	2-wire Pair Ring, 4-wire Loop 1 Pair Ring
6-8	—	Unused