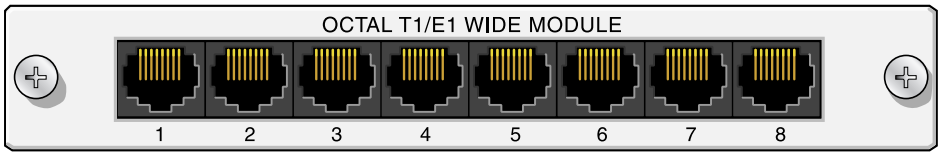
ADTRAN
Quick Start Guide

NETVANTA OCTAL T1 WIDE MODULE P/N 1200843L1



SPECIFICATIONS

Interface Type:	RJ-48C
Line Rate:	1.544 Mbits/s +/- 75 bps
Capacity:	Eight T1 circuits
Line Codes:	AMI or B8ZS
Framing:	D4 (SF) or ESF
Line Build-Out:	0,- 7.5, -15, -22.5 dB
Input Signal:	0 to -36 dB (DS-1) Support for Nx64 on all T1 interfaces (1-8)
Test:	Line loopback, payload loopback, remote loopback, test pattern generation and detection: QRSS, 20^{20}-1, 2^{15}-1, 511, all ones, all zeros
Environmental:	Operating Temperature: 0°C to 50°C Storage Temperature: -20°C to 70°C Relative Humidity: up to 95% Noncondensing
Clock Source:	Network, Internal
Compliance:	FCC Part 15/Class A, UL 60950/CSA C22.2 No. 60950, FCC Part 68/ACTA, Industry Canada

INSTALLATION INSTRUCTIONS

1. Remove the cover plate from the appropriate option slot in the NetVanta 4305/5305 Base Unit.
2. Slide the NetVanta Octal T1 Wide Module into the option slot until the module is firmly positioned against the front of the chassis.
3. Secure the thumbscrews at both edges of the module. Tighten with a screwdriver.
4. Connect the cables to the associated device(s).
5. Complete the installation of the system as specified in the Hardware Installation Guide (P/N 61200890L1-34 or P/N 61200990L1-34).

T1 NETWORK (RJ-48C) CONNECTION PINOUT

Pin	Name	Description
1	R1	Receive data from the network
2	T1	Receive data from the network
3	—	UNUSED
4	R	Transmit data toward the network
5	T	Transmit data toward the network
6-8	—	UNUSED

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COMMANDS

alias <text>

Text name assigned to the interface by an SNMP Network Management Station (NMS).

<*text*>	Up to 64 alphanumeric characters

coding {**AMI | B8ZS**}

Configures the line coding for the T1 interface.

AMI	Alternate Mark Inversion
B8ZS*	Bipolar Eight Zero Substitution

fdl {**ansi** | **att** | **none**}

Specifies the FDL standard on the T1

ansi	Sets the standard to ANSI T1.403.
att	Sets the standard to ATT TR54016.
none	No FDL standard specified.

framing {**D4** | **ESF**}

Configures the framing format of the T1 interface.

D4	Super Frame T1 framing
ESF*	Extended Super Frame T1 framing

clock source {**line** | **internal**}

Configures the source of the clock for the system.

line*	Recovers clock from the T1 circuit.
internal	Use the internal clock source.

description <text>

Comment line to provide an identifier for this interface (for example, circuit ID, contact information, etc.).

<*text*>	Up to 80 alphanumeric characters

lbo {**0*| -7.5 | -15 | -22.5**}

Configures the line build out (in dB) for the T1 interface. Use the **no** form of this command to return to the default value.

loopback network {**line | payload**}

Initiates a local T1 interface loopback. Data received on the T1 is transmitted back out on the T1 circuit.

line	Physical loop at the T1 interface connector
payload	Physical loop at the T1 interface including the framer

loopback remote line {**fdl | inband**}

Sends loopback code to the remote unit to initiate a line loopback. Use the **no** form of this command to send a loopdown code to the remote unit to deactivate the loopback.

fdl	Uses the facility data link (fdl) to initiate a full T1 loopback of the signal received by the remote unit from the network.
inband	Uses the inband channel to initiate a full T1 physical loopback (metallic) of the signal received from the network.

loopback remote payload

Sends loopback code to the remote unit to initiate a payload loopback at the far end. A payload loopback is a 1.536 Mbps loopback of the payload data received from the network maintaining bit-sequence integrity for the information bits by synchronizing (regenerating) the timing. Use the **no** form of this command to send a loopdown code to the remote unit to deactivate the loopback.

tdm-group <*number (1-1024)*> **timeslot** <*DS0 range (1-24)*>

Creates a group of contiguous DS0s on this interface to be used during the **cross-connect** process.

<number>	Number to identify this group
<*DS0 Range*>	Number of DS0s in this group in the form *(starting DS0 - ending DS0)*

no loopback

Disables all loopbacks.

no loopback remote

Sends loop down code to far end.

no shutdown

Activates the interface and allows it to pass data.

remote-alarm {**rai**}

Enables transmit of yellow alarm when receive is in LOS or Red.

remote-loopback

Allows the T1 interface to be looped from the *far end* (remote device, Telco, etc.).

show {**bert**}

Displays the error counters for the pattern selected.

shutdown

Turns off the interface. The **no** version of this command turns the interface on and allows it to pass data.

snmp trap link-status

Enables the interface to send SNMP traps when the **link status** changes and controls the SNMP variable, ifLinkUpDownTrap Enable. The default is enabled.

test pattern {**p511| qrss | ones | zeros | p215 | p220**}

Initiates a PRBS (pseudo-random binary sequence) from the unit.

p511	Repeating 2^9-1 test pattern
qrss	Quasi-random test pattern
ones	all ones pattern
zeros	all zeros pattern
p215	Repeating2^15-1 test pattern
p220	Repeating 2^20-1 test pattern

test-pattern clear

Clears the test pattern error count.

test-pattern insert

Inserts an error into currently active test pattern.

*** Indicates the default value.**