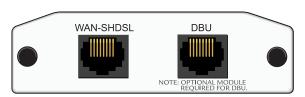


NETVANTA SHDSL NETWORK INTERFACE MODULE

P/N 1200867L1



SPECIFICATIONS

SHDSL Interface Line rate: 200 to 2312 kbps in 64k

increments

ITU-T standards: G.991.2 SHDSL

Operating modes: line termination (CO)

and network termination (CPE)

Connector: RJ-45

Clock Source CO operating mode: internal

CPE operating mode: network

Diagnostics Test pattern generation and detection: 2¹⁵

Network loopbacks (local and remote)

Alarm generation and detection

Programmable alarm threshold settings for loop attenuation and signal-to-noise

ratio margin

Line Code TC-PAM

INSTALLATION INSTRUCTIONS

- Remove power from the base unit.
- Slide the Network Interface Module (NIM) into the option slot until the NIM is firmly seated against the front of the chassis.
- 3. Secure the pins at both edges of the NIM.
- 4. Connect the cables to the associated device(s).
- 5. Complete installation of the base unit.
- 6. Restore power to the base unit.

WAN-SHDSL NETWORK (RJ-45) PINOUT

Pin	Name	Description
1-3	_	Unused
4	Т	SHDSL Tip
5	R	SHDSL Ring
6-8	_	Unused

DBU (RJ-48C) PINOUT

Pin	Name	Description
 1-2	_	Unused
3	R1	Network-Ring 1
4	R	Network-Ring
5	T	Network-Tip
6	T1	Network-Tip 1
7-8	_	Unused



An optional Dial Backup Interface Module (DIM) is required for dial backup applications.



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SHDSL NIM COMMANDS

alarm-threshold {loop-attenuation | snr-margin}

Sets thresholds for specific alarm conditions.

loop-attenuation Enter a value from 1-127 dB. If signal energy loss on

the loop exceeds the configured value, NetVanta

issues an alarm.

snr-margin Signal-to-noise ratio margin. Enter a value from

1-15 dB. If the difference in amplitude between the baseband signal and the noise exceeds the configured value, NetVanta issues an alarm.

alias <text>

Comment line to provide the text name assigned by the SNMP network management

system.

boot alternate-image

Executes new code after a firmware upgrade.

description <text>

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

equipment-type {co |cpe}

Determines the operating mode for the SHDSL interface. The default for this command is **cpe**.

command is cpe.

со

Use this option only in a campus environment when operating two SHDSL NIMs back-to-back. In this setup, configure the Master NIM to **co** and the Slave

NIM to cpe.

cpe Use this option when interfacing directly with your

service provider or when acting as the Slave NIM in

a campus environment.

inband-detection

Enables inband loopback pattern detection on the SHDSL interface.

inband-protocol (pn127 | v54)

Designates the inband loopback pattern to send/detect on the SHDSL interface.

pn127 Selects PN127 as the inband loopback pattern to

send/detect.

v54 Selects V.54 as the inband loopback pattern to send/

detect.

SHDSL NIM COMMANDS (CONTINUED)

linerate <selections are 200 to 2312 kbps in 64k increments>

Defines the line rate for the SHDSL interface (the value includes 8 kbps of framing overhead). This command is functional only in **co** operating mode (see the description for the **equipment-type** command). The default for this command is 2056 kbps. The first two selections listed (72 and 136 kbps) are not supported by this unit.

loopback {network |remote}

Initiates a loopback on the SHDSL interface.

network Initiates a loopback test, looping the data toward the

network.

remote Sends a network loopback request to the remote

unit to initiate a loopback. This command is functional only in **co** operating mode (see the description for the **equipment-type** command).

outage-retrain

Causes the SHDSL interface to force the SHDSL retrain sequence (which takes the line down temporarily) if the interface detects more than ten consecutive errored seconds. A retrain is forced in hopes that the newly retrained line will perform better.

snmp {trap | trap link-status}

Controls SNMP trap functionality for the SHDSL interface.

trap Enables traps for the SHDSL interface.

trap link-status Controls the SNMP variable.

ifLinkUpDownTrapEnable (RFC 2863), which enables/disables the interface to send SNMP traps

when there is an interface status change.

test-pattern {2^15 | clear, | insert | show}

Activates built-in pattern generation, which can be used to verify a data path when used in conjunction with an active loopback.

2^15 Initiates test pattern generation from the unit.

clear Clears the test pattern results.

insert Inserts a single error into the currently active test

pattern.

show Displays the test pattern results.