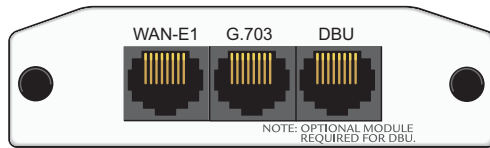


NETVANTA E1 W/ G.703 DROP NETWORK INTERFACE MODULE (NIM) P/N 1200878L1



SPECIFICATIONS

E1/FE1 Interface
 Line Rate: 2.048 Mbps +/- 50 PPM
 Line Code: AMI or HDB3
 Framing: FAS with optional CRC-4
 FE1 Line Rate: Timeslot, channelized (in multiples of 64 kbps)
 Receiver Sensitivity: -30 dB
 Connector: RJ-48C

G.703 Interface
 Line Interface: Per ITU-T G.703
 Receiver Sensitivity:-30 dB
 Line Rate: 2.048 Mbps, +/- 50 PPM
 Capacity: 1 to 31 timeslots
 If timeslot 16 signaling is used on the drop port, a maximum of 15 timeslots can be mapped to router (1-15 or 17-31).
 Line Code: AMI or HDB3
 Framing: FAS with Optional CRC-4
 Connector: RJ-48C

Clock Source Network, internal, and through

Diagnostics
 Test pattern generation and detection (QRSS, 511)
 Network loopbacks
 Alarm generation and detection
 Network performance data (15 minutes and 24 hours)

INSTALLATION INSTRUCTIONS

1. Remove power from the unit.
2. 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 the installation of the base unit.
6. Restore power to the unit.

WAN-E1 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

G.703 (RJ-48C) CONNECTION PINOUT

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

DBU (RJ-48C) CONNECTION PINOUT

Pin	Name	Description
1-2	—	Unused
3	R1	Network-Ring1
4	R	Network-Ring
5	T	Network-Tip
6	T1	Network-Tip1
7-8	—	Unused



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

E1/FE1 + G.703 NIM COMMANDS

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

Configures the source timing used for the interface.

line*	Recovers clock from the E1 circuit.
internal	Provides clocking using the internal oscillator.
through	Recovers clock from the circuit connected to the G.703 interface.

coding {*ami* | *hdb3*}

Configures the line coding for the E1 or G.703 physical interface. This setting must match the line coding supplied on the circuit by the service provider.

ami	Alternate mark inversion
hdb3*	High-density bipolar 3

description <*text*>

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

framing {*crc4*}

Configures the framing format of the E1 interface.

crc4	CRC4 framing enabled
-------------	----------------------

loopback network {*line* | *payload*}

Initiates a loopback on the interface toward the network. Deactivate using the **no loopback network** command.

line	Initiates a metallic loopback of the physical E1 network interface.
payload	Initiates a loopback of the E1 framer (CSU portion) of the E1 network interface.

shutdown

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

snmp trap {*line-status* | *link-status*}

Enables the unit interface to send SNMP traps when there is an interface status change.

tdm-group <*group#*> timeslots <*1-24*> speed [56 | 64]

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

< <i>group#</i> >	Number label to identify this TDM group
< <i>DS0 range</i> >	DS0s in this group in the form: < <i>starting DS0 - ending DS0</i> >

test pattern {*ones* | *zeros*}

Initiates sending the specified test pattern.

ones	Generate continuous ones
zeros	Generate continuous zeros

test-pattern clear

Clears the test pattern error count.

test-pattern insert

Inserts an error into currently active test pattern.

** Indicates default values.*