



NetVanta 3000 Series Option Modules

Network Interface Modules and Dial Backup Modules for the NetVanta 3000 Series

Product Features

- Modular Network Interface Modules (NIMs) offering flexibility
- Modular Dial Backup Interface Modules (DIMs) guaranteeing bandwidth
- Built-in DSU/CSU for circuit protection
- Supports the feature-rich ADTRAN Operating System (OS)
- Industry-leading 5 year warranty
- ADTRAN Safe-T-Net compatible

The NetVanta™ 3000 Series of access routers from ADTRAN™, offer small-to-medium size businesses the most cost-effective way to connect branch offices together using Frame Relay. These platforms are modular in design and are a full-featured, low-cost alternative to other brand name routers.

The NetVanta 3000 Series currently offers the NetVanta 3200 and the NetVanta 3205, with interchangeable modules. The two products support the same features and perform the same functions, but the NetVanta 3200 is a stand-alone unit in a plastic housing, while the NetVanta 3205 is a 1U high, rackmountable metal enclosure.

Modular Platforms: The NetVanta 3000 Series offers a single slot that will house both the Network Interface Module (NIM) and the Dial Backup Interface Module (DIM) together. The NIM is a *plug-in* module that offers a built-in DSU/CSU for 56/64K, T1/FT1, T1/FT1 with DSX-1, or a Serial interface. The DIM is a *plug-on* module to the NIM, which prevents downtime by dialing around a failed primary circuit, guaranteeing bandwidth for mission critical applications. An Analog Modem or an ISDN BRI DIM is available and fully compatible with ADTRAN Safe-T-Net™ based systems.

56/64K NIM: The 56/64K NIM offers a WAN interface for a single 56K or 64K Digital Data Service (DDS) network.

T1/FT1 NIM: Terminates a full T1 or a fractional T1 Frame Relay network.

T1/FT1 with DSX-1 NIM: This NIM not only supports Frame Relay on either a full T1 or fractional T1 interface, but it also supports an additional DSX-1 interface. This DSX-1 interface is to drop-off digital voice traffic to a PBX.

Serial NIM: The Serial NIM can be set by the user to support a V.35 or X.21 (V.11) interface for synchronous operations up to 10 Mbps.

Analog Modem DIM: The Analog Modem DIM is used for dial backup, supporting data rates up to 33.6 Kbps.

ISDN BRI DIM: The ISDN BRI DIM also provides dial backup access to the public switched telephone network (PSTN) via ISDN BRI interface at rates of 64 Kbps or 128 Kbps.

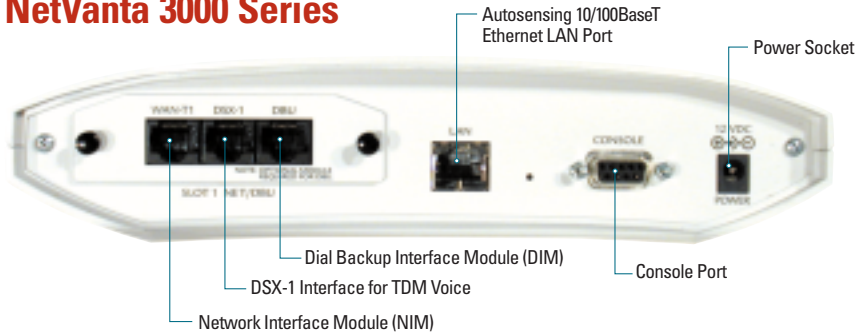
For easy upgrades, all these modules are field upgradable and can be configured remotely eliminating the need for remote technical expertise.

ADTRAN™, the leader in WAN connectivity, offers proven and dependable equipment that will increase your network performance, lower costs and migrate to next generation technologies. The NetVanta 3000 Series is no exception. With this kind of corporate backing and product versatility, the NetVanta 3000 Series offers a low-cost, feature-rich access router platform with the freedom for future expansion and network growth. In addition, these products are backed by an industry-leading 5-year warranty and ADTRAN's world-class 24-hour technical support.



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Product Specifications

Network Interface Modules (NIM): Plug-in

DDS 56/64K Network Interface Module

- Connector: RJ-48C
- Data Rates: 56K, 64K and Auto
- 4-wire, full duplex
- -45dB receiver sensitivity all rates
- Timing derived from network or internal



T1/FT1 Network Interface Module

- Connector: RJ-48C
- T1 Line Rate: 1.544 Mbps
- FT1 Line Rate: DS0 Channelized (multiple of 64K)
- Line Code: AMI or B8ZS
- Framing: D4 (SF) or ESF
- Input Signal: 0 to -36 dB (DS-1)
- Line-Build-Out: 0, 7.5, 15, 22.5 dB, Auto
- Timing derived from network or internal



T1/FT1 + DSX-1 Network Interface Module

T1/FT1 Interface (Same T1/FT1 Specifications above)

DSX-1 Interface

- DSX-1 Connector: RJ-48C
- Line Interface: DSX-1 per ANSI T1.102
- Line Rate: 1.544 Mbps
- Capacity: 1-24 DS0s
- DS0 Assignment: Programmable
- Robbed Bit Signaling
- Line Codes: AMI, B8ZS
- Line Length: -7.5 dB to 655 ft in 110 ft steps
- Timing derived from network or internal



Serial Interface Module

- Connector: 26-Pin Smart Serial
- V.35 or X.21 (V.11) Interface
- CTS, DCD, DSR, LL Options are Normal or Forced
- Up to 10 Mbps



Dial Backup Interface Modules (DIM): Plug-in

Analog Dial Backup Interface Module

- Connector: RJ-45
- 300 bps to 33.6 Kbps

ISDN BRI Dial Backup Interface Module

- Connector: RJ-45 U-Interface
- Network support for 64 Kbps (1B channel) or 128 Kbps (2B channels)
- D channel switch compatibility with AT&T 5ESS, Northern Telecom DMS-100, and National ISDN-1

Agency Approvals

- FCC Part 15, Class A
- FCC Part 68
- Industry Canada CS03
- UL and CUL

Environmental

- Operating Temperature: 0° to 50° C
- Storage Temperature: -40° to 85° C
- Relative Humidity: Up to 95% non-condensing

Physical

- NIM Dimensions: 4.25" x 2.75"
- DIM Dimensions: 3.75" x 2.5"

Ordering Information

Equipment	Part #
NetVanta 56/64K NIM	1200861L1
NetVanta T1/FT1 NIM	1200862L1
NetVanta T1/FT1 + DSX-1 NIM	1200863L1
NetVanta Serial NIM	1200866L1
NetVanta Analog Modem DIM	1200864L1
NetVanta ISDN BRI DIM	1200865L1

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