NetVanta 3200/3205

Modular Access Router

Product Features

- Modular Network Interface Module (NIM) offering flexibility
- Modular Dial Backup Interface Module (DIM) guaranteeing bandwidth
- Stateful inspection firewall for network security
- Quality of Service (QoS) for delay sensitive traffic like VoIP
- Command Line Interface (CLI) mimics industry *de facto* standard
- Optional DSX-1 interface supplies TDM voice transport
- Comprehensive PPP dial backup scheme prevents network downtime
- VLAN Trunking (802.1Q) for routing between VLANs
- Network Address Translation (NAT) for IP Address Concealing
- Optional VPN for secure corporate connectivity across the Internet
- Standards-based IPSec VPN tunneling with DES/3DES/AES encryption
- Feature-rich ADTRAN Operating System (OS)
- Built-in DSU/CSU for circuit protection
- Industry-leading five-year North American warranty

The NetVanta™ 3000 Series of modular access routers are designed for cost-effective Internet access, corporate Frame Relay, point-to-point connectivity, and Virtual Private Networking (VPN). The NetVanta 3000 Series currently consists of the NetVanta 3200, 3205, and 3305 with a variety of interchangeable Network Interface Modules (NIMs) and Dial Backup Modules (DIMs).

The NetVanta 3200 and the NetVanta 3205 support the same features and perform the same functions, but the NetVanta 3200 is a single-slot, standalone unit in a plastic housing, while the NetVanta 3205 is a 1U high, rack-mountable metal enclosure. A single slot within any of the NetVanta 3000 Series will house a variety of NIMs and DIMs, which include a 56/64K, T1/FT1, T1/FT1 with DSX-1, or a Serial interface. For dial backup, an Analog Modem or an ISDN BRI DIM is available for preventing downtime by dialing around a failed circuit to any PPP compliant device.

The versatile hardware platforms of the NetVanta 3200 and 3205 are further complemented with the ADTRAN™ Operating System (OS). The ADTRAN OS allows for the support of static and default routes, and allows for fast, accurate network convergence using routing protocols such as OSPF and RIP. In addition, the ADTRAN OS terminates Frame Relay and PPP WAN protocols.

The ADTRAN OS offers a standard Command Line Interface (CLI) that mimics the widely adopted, industry *de facto* standard. The sequence of commands to configure similar devices is almost identical, virtually eliminating training costs associated with re-learning a new operating system or costly industry certifications. The CLI also allows for configuration scripts to be used, saved, and downloaded for a quick and easy recovery mechanism.

For added security, the ADTRAN OS provides a powerful, high performance stateful inspection firewall. It will examine all incoming and outgoing packets against the security policies established by the IT Manager. In addition, the firewall can identify and protect against common Denial of Service (DoS) attacks like TCP syn flooding, IP spoofing, ICMP redirect, ping-of-death, and IP reassembly problems.

Quality of Service (QoS) is also supported using DiffServ aware Weighted Fair Queuing allowing the NetVanta 3200 and 3205 to guarantee quality service for delay sensitive traffic like VoIP or video.

The ADTRAN OS includes built-in alert and logging mechanisms for notifying network administrators about suspicious activities going on in the network. For managing IP addresses, the ADTRAN OS also offers Network Address Translation (NAT/NAPT) for IP address concealment and conservation.

With the ADTRAN OS Enhanced Feature Pack Upgrade, the NetVanta 3000 Series adds the support for IPSec compliant Virtual Private Networking (VPN). The NetVanta 3200 and 3205 supports up to five simultaneous VPN tunnels, while supporting encryption algorithms like DES, 3DES, and AES. With this upgrade, the NetVanta 3000 Series is fully compatible with ADTRAN's NetVanta 2000 Series of VPN/Firewall appliance and the NetVanta VPN Software Client.

ADTRAN, the leader in WAN connectivity, offers proven and dependable equipment that will increase your network performance, lower costs and allow migration 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 five-year North American warranty and world-class 24-hour technical support from ADTRAN.

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For the regional office nearest you, visit:
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NetVanta 3200/3205

Modular Access Router

Physical Interface
- **NIM:** 56/64K, T1/FT1, T1/FT1 with DSX-1, and Serial
- **DIM:** Analog Modem and ISDN BRI
- **LAN:** Auto-sensing 10/100BaseT Full Duplex (RJ-45)
- Console Port

Firewall
- Stateful Inspection Firewall
- Cyber Assault Protection
- Denial of Service (DoS) Protection

Network Address Translation
- Basic NAT (1:1) and NAPT (Many:1)
- Application Level Gateways (ALGs)

DHCP
- Client, Server, and Relay

Diagnostics
Front Panel Status LEDs
- Power
- **WAN:** link, transmit, receive
- **LAN:** link, transmit, receive
- **Dial backup:** transmit and receive

Processor and Memory
- 80 MHz, Motorola MPC 866
- **RAM:** 32 MB
- **FLASH:** 8 MB

Management
- Familiar Command Line Interface (CLI)
- SYSLOG logging
- Email alerts (SMTP)
- Access control policies
- SSH management
- RADIUS authentication
- Policy statistics

Routing Protocol
- OSPF, RIP, and Static

Routed Protocol
- IP
- Bridging (other protocols)

Frame Relay
- Point-to-point
- RFC 1490 Encapsulation (Multiprotocol Over Frame Relay)
- LMI types: LMI, ANSI (Annex D), CCITT (Annex A) and Static

PPP
- LCP, IPCP, BCP

Disaster Recovery
- PPP

WAN Protocol
- Frame Relay and PPP

Quality of Service (QoS)
- Weighted Fair Queuing (WFQ)
- DiffServ aware

Optional Virtual Private Network (VPN)
IPSec Mode
- Tunnel

Encryption
- DES, 3DES, and AES

Diffie Hellman Group Support
- **Group 1:** MODP 768
- **Group 2:** MODP 1024

Hash Algorithms
- MD5-HMAC
- SHA1-HMAC

Authentication Mechanisms
- XAUTH
- Digital certificates
- Preshared keys

Key Management
- IKE (ISAKMP/Oakley)

IKE Modes
- Main
- Aggressive

Environment
- **Operating Temperature:** 0° to 50 °C (32° to 122 °F)
- **Storage Temperature:** -20° to 70 °C (-4° to 158 °F)
- **Relative Humidity:** Up to 95%, non-condensing

Physical
NetVanta 3200
- **Chassis:** Self-standing desktop unit with plastic enclosure
- **Dimensions:** 1.625" H, 9" W, 6.375" D
- **Weight:** 2 lbs.
- **Power:** 100-250 VAC, 50/60 Hz

NetVanta 3205
- **Chassis:** 1U, rackmountable metal enclosure
- **Dimensions:** 1.25" H, 17.25" W, 7.75" D
- **Weight:** 7 lbs.
- **AC Power:** 100-250 VAC, 50/60 Hz (1200870L1)
- **DC Power:** -48 +21 VDC, 50W max (1200980L1)

Agency Approvals
- FCC Part 68
- Industry Canada CS03
- UL & Canadian UL (CUL), IEC/EN, CSA
- CE Mark

Ordering Information

Equipment	Part #
Systems	
NetVanta 3200 Chassis	1202860L1
NetVanta 3200 with 56/64 NIM	4200861L1
NetVanta 3200 with T1/FT1 NIM	4200862L1
NetVanta 3200 with T1/FT1+DSX-1 NIM	4200863L1
NetVanta 3200 with Serial NIM	4200866L1
NetVanta 3205 Chassis AC	1200870L1
NetVanta 3205 Chassis DC	1200980L1
NetVanta 3205 with 56/64K NIM	4200871L1
NetVanta 3205 with T1/FT1 NIM	4200872L1
NetVanta 3205 with T1/FT1+DSX-1 NIM	4200873L1
NetVanta 3205 with Serial NIM	4200876L1
Systems with Enhanced Feature Pack	
Enhanced Software Upgrade	1950860L2
NetVanta 3200 Chassis	4200860L2
NetVanta 3200 with 56/64K NIM	4200861L2
NetVanta 3200 with T1/FT1 NIM	4200862L2
NetVanta 3200 with T1/FT1+DSX-1 NIM	4200863L2
NetVanta 3205 Chassis AC	4200870L2
NetVanta 3205 with 56/64K NIM	4200871L2
NetVanta 3205 with T1/FT1 NIM	4200872L2
NetVanta 3205 with T1/FT1+DSX-1 NIM	4200873L2
Modules	
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