



NetVanta 5305

Multi-Slot Access Router Supporting up to Two T3's Worth of Bandwidth

Product Features

- Six-slot, dual-Ethernet IP Access Router for Frame or PPP networks
- Dual auto-sensing 10/100Base-T interface for LAN segmentation
- Stateful inspection fire-wall for network security
- Command Line Interface (CLI) mimics *de facto* industry standard
- QoS for delay sensitive traffic like VoIP
- VLAN Trunking (802.1Q) for routing between VLANs
- Network Address Translation (NAT) conceals private IP addresses
- Optional VPN for secure corporate connectivity across the Internet
- Feature-rich ADTRAN Operating System (OS)
- Built-in DSU/CSU for circuit protection
- Industry-leading five-year North American warranty

The NetVanta® 5305 is an access router designed for cost-effective Internet access, corporate Frame Relay, point-to-point connectivity, and Virtual Private Networking (VPN) for large-bandwidth applications supporting T3 networks. Residing in a 3U high, 19" rackmountable metal enclosure, the NetVanta 5305 is a single platform that offers six interface slots and dual 10/100Base-T Ethernet LAN ports for true LAN segmentation or DMZ applications. A single slot within the NetVanta 5305 will house an Unchannelized T3, Octal T1, or HSSI Wide Module.

The versatile hardware platform of the NetVanta 5305 is 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 BGP, OSPF, and RIP. In addition, the ADTRAN OS terminates Frame Relay, PPP, PPPoE, and Multilink PPP WAN protocols.

The ADTRAN OS offers a standard Command Line Interface (CLI) that mimics the widely adopted, industry *de facto* standard. Using an already familiar CLI virtually eliminates training costs associated with 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 for delay sensitive traffic like VoIP or video. The NetVanta 5305 uses Low Latency Queuing, DiffServ marking and packet recognition, and allows for Frame Relay Fragmentation to avoid latency.

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 can act as a DHCP server by assigning IP addresses, or as a client by receiving an IP address. In addition, 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 5305 adds the support for IPSec compliant Virtual Private Networking (VPN). The NetVanta 5305 supports up to 2,000 simultaneous VPN tunnels, while supporting encryption algorithms like DES, 3DES, and AES. With this upgrade, the NetVanta 5305 is fully compatible with ADTRAN's IPSec VPN equipped NetVanta products: Ethernet switches, access routers, and VPN/Firewall appliances.

ADTRAN, the leader in WAN connectivity, offers reliable equipment that increases network performance, lowers cost, and positions networks for the future. The NetVanta 5305 is no exception. With this kind of corporate backing and product versatility, the NetVanta 5305 offers a low-cost, feature-rich access routing 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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ADTRAN is an ISO 9000:2000 certified supplier.



ADTRAN is a TL 9000 3.0 certified supplier.

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Physical Interface

- **Six Wide Slots:** Unchannelized T3, Octal T1 and HSSI
- **Dual LAN Ports:** Auto-sensing 10/100Base-T Ethernet Ports (RJ-45)
- Console Port

Firewall

- Stateful Inspection Firewall
- Cyber Assault Protection
- Denial of Service (DoS) Protection
- NAT compatible SIP ALG

Diagnostics

Front Panel Status LEDs

- **Power:** 1 and 2
- **Slots:** Status, Activity, Test
- **LANs:** link, transmit, receive

Processor and Memory

- 1 GHz, Motorola 7447
- **RAM:** 256 MB
- **FLASH:** 32 MB

Management

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

WAN Protocol

- Frame Relay, PPP, PPPoE, and Multilink PPP

Routing Protocol

- BGP, OSPF, RIP, and Static

Routed Protocol

- IP and 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

IP Multicast

- 1GMP v2

PPP

- PAP and CHAP

Network Address Translation

- Basic NAT (1:1) and NATP (Many:1)
- Application Level Gateways (ALGs)

DHCP

- Client, Server, and Relay

Quality of Service (QoS)

- Low Latency and Weighted Fair Queuing
- DiffServ marking and packet recognition
- Frame Relay Fragmentation

Virtual Private Network (VPN)

IPSec Mode

- Tunnel

Hash Algorithms

- MD5-HMAC
- SHA1-HMAC

Encryption

- DES, 3DES, and AES

Diffie Hellman

Group Support

- **Group 1:** MODP 768
- **Group 2:** MODP 1024

Authentication Mechanisms

- XAUTH
- Digital certificates
- Pre-shared keys

Key Management

- IKE (ISAKMP/Oakley)

IKE Modes

- Main and Aggressive

Dead Peer Detection

NAT Traversal V2

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

- **Chassis:** 3U, rackmountable metal enclosure
- **Dimensions:** 5.25" H, 17.5" W, 10.25" D
- **Weight:** 21 lbs.
- **Power:** 100-250 VAC, 50/60 Hz

Agency Approvals

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

Product Includes

- User Manual, Quick Start Guide, AC Power Cord

Ordering Information

Equipment	Part #
NetVanta 5305 Chassis	4200990L1
T3 Wide Module	1200832L1
Octal T1 Wide Module	1200836L1
HSSI Wide Module	1200934L1
NetVanta 5305 Redundant AC Power Supply	1200840L1
VPN Upgrade	4200368L3
Systems	
NetVanta 5305 Chassis with T3 Wide Module	4200992L1
NetVanta 5305 Chassis with T3 Wide Module and VPN	4200992L2

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