NetVanta® 340

Business Class ADSL/ADSL2/ADSL2+ Router

Product Features

- Affordable routing solutions for business-class ADSL networks

- Innovative ADSL2+ technology provides further reach and higher bandwidth (up to 25 Mbps)

- Standards-based routing solutions based on the widely deployed NetVanta Series

- Feature-rich ADTRAN Operating System (OS)

- Stateful inspection firewall for network security

- Optional VPN for secure corporate connectivity across the Internet

- Industry-leading five-year North American warranty

- Recognizable Command Line Interface (CLI) eliminates re-training

- User-friendly web Graphical User Interface (GUI)

- NAT-compatible SIP ALG for VoIP

- Interoperable with other NetVanta product offerings and carrier-based ADSL service offerings

The NetVanta® 300 Series offers cost-effective IP routing solutions for business class ADSL/ADSL2 and ADSL2+ networks. Based on the widely deployed ADTRAN Operating System (OS), this series of ADSL routers offers a robust feature set with standards-based routing functionality. The NetVanta 340 ADSL2+ IP Access Router is the first member in this series. It provides a single ADSL network interface and one Ethernet interface. This product is ideal for carrier bundled service offerings and enterprise Internet access or secure, high-speed corporate connectivity. In addition to supporting ADSL (Annex A), and ADSL2, the NetVanta 340 supports the most advanced ADSL technology, ADSL2+, for applications requiring greater reach and higher bandwidth, up to 25Mbps. A variety of WAN protocols are supported including PPP over ATM and PPPoE over ATM.

The versatile hardware platform of the NetVanta 340 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.

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. In addition, an intuitive web-based GUI provides step-by-step configuration wizards, management capability, and the ability to upload firmware updates.

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 340 uses Low Latency Queuing, DiffServ marking and packet recognition and also provides a NAT-compatible SIP ALG (Application Layer Gateway) to allow IP voice traffic to seamlessly traverse NAT-enabled firewalls.

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 300 Series adds the support for IPSec compliant Virtual Private Networking (VPN). The NetVanta 340 supports up to five simultaneous VPN tunnels, while supporting encryption algorithms like DES, 3DES, and AES. With this upgrade, the NetVanta 300 Series 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 proven and dependable equipment that will increase your network performance, lower costs and allow migration to next generation technologies. The NetVanta 300 Series is no exception. In addition, these products are backed by an industry-leading five-year North American warranty and world-class 24-hour technical support from ADTRAN.

ADTRAN®

NetVanta® 340

Business Class ADSL/ADSL2/ADSL2+ Router

Physical Interface
- **WAN:** ADSL/ADSL2/ADSL2+ Interface
  - ADSL ITU G.992.1 (Annex A)
  - ADSL ITU G.992.2 (Annex A) G.Lite
  - Extended Reach ADSL (RADSL)
  - ADSL2 ITU G.992.3 (Annex A)
  - ADSL2+ ITU G.992.5 (Annex A)
- **LAN:** Auto-sensing 10/100Base-T Full Duplex (RJ-45)

DHCP
- Client, Server, and Relay

Diagnostics LEDs
- Power
- **WAN:** link, transmit, receive
- **LAN:** link, transmit, receive

Memory
- **RAM:** 32 MB
- **FLASH:** 16 MB

Protocols
- BGP
- OSPF
- RIP (v1 and v2)
- GRE
- IGMP v2
- PPP over ATM (RFC 2364)
- PPPoE over ATM (RFC 2516)
- Classical IP over ATM (RFC 2225)
- AAL5
- PAP and CHAP

Security
Firewall
- Stateful Inspection Firewall
- Denial of Service (DoS) Protection
- Access Control Lists
- Application Level Gateways (ALGs)

Network Address Translation
- Basic NAT (1:1) and NAPT (Many:1)
- NAT compatible SIP ALG

Optional Virtual Private Network (VPN)
- **IPSec Mode:** Tunnel
- **Encryption:** DES, 3DES, and AES
- **Diffie Hellman Group Support:** Group 1: MODP 768 and Group 2: MODP 1024
- **Hash Algorithms:** MD5-HMAC and SHA1-HMAC
- **Authentication Mechanisms:** XAUTH, Digital certificates, Preshared keys, and Secure ID
- **Key Management:** IKE (ISAKMP/Oakley)
- **IKE Modes:** Main and Aggressive
- Dead Peer Detection
- NAT Traversal V2

Secure Management
- Multi-level access control
- RADIUS AAA
- SSH CLI and SSL GUI

Administration
- Familiar Command Line Interface (CLI)
- Web-based GUI
- n-Command™ support
- SNMP v2
- SYSLOG Logging
- Email Alerts (SMTP)
- Policy Statistics

Quality of Service
- Low Latency and Weighted Fair Queuing (WFQ)
- DiffServ Packet Marking and Recognition
- Frame Relay Fragmentation

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:** Self-standing, plastic enclosure
- **Dimensions:** 1.625" H, 7.5" W, 5.25" D
- **Weight:** 1 lb.
- **Power:** 120 VAC, 60 Hz, 65 mAmps, 6 watts

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

Ordering Information

Equipment	Part #
Systems	
NetVanta 340 Chassis	1200422L1
Systems with VPN	
NetVanta 340 Chassis with VPN	4200422L2
VPN Software Upgrade	
NetVanta VPN Software Upgrade	1950422L2

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