



NetVanta 3430

Modular Access Router

Product Features

- Modular Access Router supporting up to two T1s
- Wire-speed performance for IP Telephony, corporate connectivity, and Internet access
- Standards-based routing/switching protocols, based on the widely deployed NetVanta Series
- Feature-rich ADTRAN Operating System (AOS)
- CompactFlash® slot for downloading configuration files and new firmware
- Stateful inspection firewall for network security
- Onboard hardware encryption accelerator
- Optional IPSec VPN for secure corporate connectivity across the Internet
- Recognizable Command Line Interface (CLI) eliminates retraining
- User-friendly Web-based Graphical User Interface (GUI)
- NAT-compatible SIP ALG for VoIP
- Industry-leading five-year North American warranty

The NetVanta® 3430 is a Modular Access Router that delivers the high-packet throughput required for IP Telephony, corporate connectivity, and Internet access. This performance-enhanced platform delivers wire-speed throughput, even with advanced services like QoS, NAT, Firewall, and VPN-enabled.

Modular Hardware

The NetVanta 3430 is a modular, 1U-high, rack-mountable metal chassis that offers two 10/100Base-T Ethernet interfaces for LAN segmentation, DMZ, or even broadband backup. The single-slot houses any of the NetVanta 3000 Series NIMs and DIMs, which include a 56/64k, T1/FT1, T1/FT1 with DSX-1, Dual T1, E1/FE1, E1/FE1 with G.703, ADSL, or a Serial interface. For dial backup, an Analog Modem, ISDN BRI, or Serial DIM are available, preventing downtime by dialing around a failed circuit to any PPP-compliant device.

Standards Protocols

Complementing the versatile hardware, the ADTRAN® Operating System (AOS) supports static and default routes, demand routing, and allows for fast, accurate network convergence using routing protocols such as BGP, OSPF, and RIP. In addition, the AOS terminates Frame Relay, Multilink Frame Relay, PPP, Multilink PPP, and HDLC WAN protocols. Multihoming is also available to provide redundant or backup WAN links to multiple ISPs, guaranteeing a wide-area connection.

Quality of Service (QoS)

QoS is also supported for delay-sensitive traffic like VoIP or video. To prioritize mission-critical traffic and control network congestion, the NetVanta 3430 uses Low Latency Queuing, Weighted Fair Queuing (WFQ), Class-based WFQ, and DiffServ marking to establish the priority of IP packets routed over the WAN.

VoIP Ready

In combination with the QoS features, a specialized SIP Application Layer Gateway (ALG) allows SIP traffic to traverse NAT-enabled firewalls. For enterprise networks, this interoperability allows IP PBXs, phones, and other SIP-based devices to set up, tear down, and pass voice and call control messages seamlessly through the integral NAT-enabled firewall.

Security

The AOS provides a powerful, high performance stateful inspection firewall that 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.

The NetVanta 3430 supports up to 500 simultaneous IPSec VPN tunnels and encryption algorithms like DES, 3DES, and AES. By supporting IPSec, the NetVanta 3430 is fully compatible with other IPSec VPN-equipped NetVanta products.

Administration

The AOS 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 relearning a new operating system or costly industry certifications. The CLI also allows for configuration scripts to be used, saved, and downloaded as 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.





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ADTRAN is an ISO 9001, ISO 14001 and a TL 9000 certified supplier.

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Product Specifications

Physical Interface

- **NIM:** 56/64k, T1/FT1, T1/FT1 with DSX-1, Dual T1, E1/FE1, E1/FE1 with G.703, ADSL, and Serial
- **DIM:** Analog Modem, ISDN BRI (U and S/T), and Serial
- **LAN:** Two auto-sensing 10/100Base-T ports (RJ-45)

Diagnostics LEDs

- Status
- Ethernet 1
- WAN
- Ethernet 2
- DBU

Memory

- **RAM:** 128 MB
- **FLASH:** 32 MB
- CompactFlash® Slot

Protocols

- eBGP/iBGP
- OSPF
- RIP (v1 and v2)
- PIM Sparse Mode
- Demand Routing
- Policy-based Routing
- GRE
- ATM (ADSL)
- Frame Relay
- Multilink Frame Relay
- Layer 3 Backup
- PPP
- Multilink PPP
- PPPoE
- PPPoA
- IGMP v2
- RFC 1483
- HDLC
- PPP Dial Backup
- PAP and CHAP
- Multihoming

Quality of Service

- Low Latency, Weighted Fair Queuing (WFQ), and Class-based WFQ
- DiffServ Packet Marking and Recognition
- Frame Relay Fragmentation

Administration

- Familiar Command Line Interface (CLI)
- Web-based GUI
- n-Command® support
- SNMP v3
- SYSLOG Logging
- Email Alerts (SMTP)
- Policy Statistics

DHCP

- Client, Server, and Relay

Security

Firewall

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

Network Address Translation

- Basic NAT (1:1), NAT (Many:1), and Port Translation
- NAT compatible SIP ALG

Secure Management

- Multi-level access control
- TACACS+
- RADIUS AAA
- SSH CLI and SSL GUI

Content Filtering

- Integration with Websense®

Optional Virtual Private Network (VPN)

- **IPSec Tunnel Mode:** 500 Tunnels
- **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

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:** IU, metal chassis
- **Dimensions:** 1.75" H, 11.75" W, 7.5" D
- **Weight:** 4 lbs.
- **Auto-ranging Power:** 100–250 Vac, 50–60Hz, 25 Watts

Agency Approvals

- CE Mark, UL & Canadian UL (CUL), IEC/EN
- RoHS

Ordering Information

Equipment	Part #
NetVanta 3430	1200820E1
NetVanta 3430 with VPN	4200820E2
VPN Software Upgrade	1950820E2



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