



# NetVanta 3430

## Modular Access Router

### Product Features

- Modular access router
- *RapidRoute* technology for greater performance
- Voice Quality Monitoring (VQM) and Mean Opinion Score (MOS) prediction
- Inherent URL filtering
- Standards-based routing/switching protocols
- Feature-rich ADTRAN Operating System (AOS)
- CompactFlash slot for auto-provisioning
- Stateful inspection firewall for network security
- Optional IPsec Virtual Private Network (VPN) for secure corporate connectivity across the Internet
- Onboard hardware encryption accelerator
- Recognizable Command Line Interface (CLI) and intuitive Web-based Graphical User Interface (GUI)
- Network Address Translation (NAT)-compatible Session Initiation Protocol (SIP) Application Layer Gateway (ALG) for Voice over IP (VoIP)
- Wi-Fi Access Controller for centralized management of NetVanta Wireless Access Points (WAPs)

The NetVanta 3430 is a modular access router that uses *RapidRoute* technology to deliver 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 enabled like Quality of Service (QoS), NAT, firewall, and VPN.

#### Modular Hardware

The NetVanta 3430 is a modular, 1U-high, rackmountable metal chassis that offers two 10/100Base-T Ethernet interfaces for WAN access LAN segmentation, DMZ, or even broadband backup. The single slot houses any of the NetVanta Series Network Interface Modules (NIMs).

Complementing the versatile hardware, the AOS allows for the support of standards-based switching, Virtual LAN (VLAN) tagging, static and default routes, and demand routing. This enables fast, accurate network convergence using industry-standard routing protocols such as BGP, OSPF, and RIP. In addition, the AOS terminates MPLS, Frame Relay, Multilink Frame Relay, PPP, Multilink PPP, Carrier Ethernet and HDLC Wide Area Network (WAN) protocols. Multihoming is also available to provide redundant or backup WAN links to multiple ISPs, guaranteeing a wide-area connection.

#### Hierarchical 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 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.

The NetVanta 3430 also deploys VQM to capture MOS, jitter, delay, and packet loss statistics necessary to troubleshoot VoIP calls over the WAN. This powerful, yet graphically intuitive, diagnostic tool allows for quick isolation of network issues to ensure superior call quality.

#### 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.

In addition, the AOS is capable of providing an inherent URL-filtering package without the use of an external server. URL-filtering is another level of security that allows system administrators to restrict Internet access by permitting or denying specific URLs. This URL filtering feature also includes the ability to produce top website reports of the most frequently requested websites, allowing system administrators to modify the URL filter lists.

The NetVanta 3430 offers enhanced performance IPsec VPN throughput capabilities to allow for fast network convergence of voice and data traffic through an encrypted network. By supporting IPsec, the NetVanta 3430 is fully compatible with other IPsec VPN-equipped NetVanta products.

#### Administration

The AOS offers both a CLI that mimics the widely deployed industry *de facto* standard and an intuitive Web-based GUI with step-by-step configuration wizards.



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# NetVanta 3430

## Modular Access Router

### Product Specifications

#### Physical Interface

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

#### Diagnostics LEDs

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

#### Memory

- 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
- Multi-VRF CE
- PPP
- Multilink PPP
- PPPoE
- PPPoA
- IGMP v2
- RFC 1483
- HDLC
- PPP Dial Backup
- PAP and CHAP
- Multihoming
- VRRP

#### Quality of Service

- Low Latency, WFQ and Class-based WFQ
- DiffServ Packet Marking and Recognition
- Frame Relay Fragmentation
- Traffic Monitoring (NetFlow 9)

#### Voice Quality Monitoring (Optional)

- Mean Opinion Score (MOS) prediction
- Jitter, Delay and Packet Loss
- Past and Active Calls

#### Administration

- CLI
- Email Alerts (SMTP)
- Policy Statistics
- TCL Scripting
- Flash Provisioning
- Web-based GUI
- n-Command Support
- SNMP v3
- SYSLOG Logging

#### DHCP

- Client, Server, and Relay

#### Security

##### Firewall

- Stateful Inspection Firewall
- DoS Protection
- Access Control Lists
- ALGs

#### Network Address Translation

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

#### Secure Management

- Multi-level access control
- TACACS+
- RADIUS AAA
- SSH CLI and SSL GUI
- Port Authentication (802.1x)

#### Content Filtering

- Inherent URL filter
- Top website reports
- Integration with Websense

#### Optional VPN

- **IPSec Tunnel Mode:** 100 Tunnels
- **Encryption:** DES, 3DES, and AES
- **Authentication Mechanisms:** XAUTH, Digital certificates, Pre-Shared Keys, and Secure ID

#### Environment

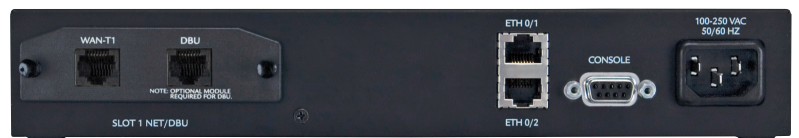
- **Operating temperature:** 0° to 50 °C
- **Storage temperature:** -20° to 70 °C
- **Relative humidity:** Up to 95%, non-condensing

#### Physical

- **Chassis:** IU, metal chassis
- **Dimensions:** 4.4 cm H, 26.7 cm W, 14.7 cm D
- **Weight:** 4 kg.
- **Auto-ranging Power:** 100–250 VAC, 50–60Hz, 25 watts

## Ordering Information

Equipment	Part #
NetVanta 3430	1202820G1#IN
NetVanta 3430 with VPN and VQM	4200820E2 #IN
VPN and VQM Software Upgrade	1950820E2



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