



NetVanta 3120

Fixed-port Ethernet Router with Four-port Switch

Product Features

- IP access router for broadband access using DSL or cable
- Integral four-port managed Ethernet switch
- Voice Quality Monitoring (VQM) and Mean Opinion Score (MOS) prediction
- Optional analog modem for dial backup or remote management
- Standards-based routing/switching protocols, based on the widely-deployed NetVanta Series
- Feature-rich ADTRAN® Operating System (AOS)
- Stateful inspection firewall for network security
- IPSec Virtual Private Network (VPN) for secure corporate connectivity across the Internet
- Recognizable Command Line Interface (CLI) and intuitive Web-based Graphical User Interface (GUI)
- Network Access 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)
- Industry-leading five-year North American warranty

The NetVanta® 3120 is a fixed-port Ethernet router with an integral four-port Ethernet switch. It provides a single auto-sensing 10/100Base-T Ethernet network interface and four auto-sensing 10/100Base-T Ethernet LAN interfaces. The NetVanta 3120 can also be pre-configured with a built-in analog modem for dial backup or remote management. This product is ideal for enterprise-level Internet access for secure, high-speed corporate connectivity using broadband access such as DSL or cable.

Standards Protocols

This versatile hardware platform is further complemented by the AOS. The AOS allows for support of standards-based switching, VLAN tagging, static and default routes, and demand routing, for fast, accurate network convergence using routing protocols such as BGP, OSPF, and RIP.

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 3120 uses Low Latency Queuing, Weighted Fair Queuing (WFQ), Class-based WFQ, and DiffServ marking to establish the priority of IP packets routed over the Wide Area Network (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 3120 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. It examines 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.

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 3120 also supports up to ten simultaneous IPSec VPN tunnels and encryption algorithms like DES, 3DES, and AES. By supporting IPSec, the NetVanta 3120 is fully compatible with other IPSec VPN-equipped NetVanta products.

Administration

The AOS offers an intuitive Web-based GUI that provides step-by-step configuration wizards, management capability, and the ability to upload firmware updates. In addition, it has a standard CLI that mimics the widely adopted, industry *de facto* standard. The sequence of commands required to configure similar devices is almost identical, eliminating training costs typically associated with learning a new operating system or obtaining costly industry certifications. The CLI also allows for configuration scripts to be used, saved, and downloaded as a quick-and-easy recovery mechanism.



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TL19.1270



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61700601G2-8C November 2009
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NetVanta® 3120

Fixed-port Ethernet Router

Product Specifications

Physical Interface

- **WAN:** Auto-sensing 10/100Base-T Ethernet (RJ-45)
- **LAN:** Four-port, Auto-sensing Ethernet switch 10/100Base-T Full Duplex (RJ-45)
- **Optional Backup:** Analog 33.6 kbps modem (RJ-45)

Diagnostics LEDs

- Power (Stat)
- WAN (Ethernet)
- VPN
- LAN (Switch Ports)
- Dial Backup (optional)

Protocols

- eBGP/IBGP
- OSPF
- RIP (v1 and v2)
- Demand Routing
- Policy-based Routing
- RFC 1483
- HDLC
- PPP Dial Backup
- Multihoming
- VRRP
- PPP
- Multilink PPP
- PPPoE
- IGMP v2
- GRE
- Frame Relay
- Multilink Frame Relay
- PAP and CHAP
- Layer 3 Backup

Quality of Service (QoS)

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

Voice Quality Monitoring (VQM)

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

Administration

- Familiar Command Line Interface (CLI)
- Web-based GUI
- n-Command® support
- SNMP v3
- SYSLOG logging
- Email alerts (SMTP)
- Policy statistics

Switching

- Weighted Round Robin (WRR) and Strict Priority Queuing
- VLAN Support (802.1Q)
- Spanning Tree (802.1D)
- Rapid Spanning Tree (802.1w)
- 802.1p and DiffServ QoS



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+
- Port Authentication (802.1x)
- RADIUS AAA
- SSH CLI and SSL GUI

Content Filtering

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

Virtual Private Network (VPN)

- **IPSec Tunnel Mode:** 10 Tunnels
- **Encryption:** DES, 3DES, and AES
- **Authentication Mechanisms:** XAUTH, Digital certificates, Pre-Shared Keys, and Secure ID

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:** 2.25" H, 9.25" W, 6.625" D
- **Weight:** 1 lb.
- **Power:** 12 VDC, 800 mA, 6 W (AC to DC Power Adapter Included)

Agency Approvals

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

Ordering Information

Equipment	Part #
NetVanta 3120	1700601G2
NetVanta 3120 with DBU	1700600L2

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