



NetVanta 3120

Fixed-port Ethernet Router

Product Features

- IP access router for broadband access using DSL or cable
- Integral four-port managed Ethernet switch
- Built-in 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 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® 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, four auto-sensing 10/100Base-T Ethernet LAN interfaces, and an analog modem interface for dial-backup or remote management. This product is ideal for enterprise 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 ADTRAN® Operating System (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.

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.

VPN

The NetVanta 3120 also supports up to five 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.

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 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.

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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Fixed-port Ethernet Router

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)
- **Backup:** Analog 33.6 kbps modem (RJ-45)

Diagnostics LEDs

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

Memory

- **RAM:** 64 MB
- **FLASH:** 16 MB

Protocols

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

Quality of Service

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

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

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
- RADIUS AAA
- TACACS+
- SSH CLI and SSL GUI

Virtual Private Network (VPN)

- **IPSec Tunnel Mode:** 5 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

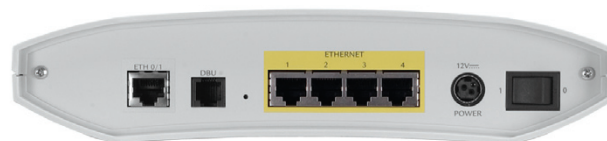
- **Chassis:** Self-standing, plastic enclosure
- **Dimensions:** 2.25" H, 9.25" W, 6.625" D
- **Weight:** 1 lb.
- **Power:** 12 VDC, 800 mA, 6 W (AC to DC Power Adapter Included)

Agency Approvals

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

Ordering Information

Equipment	Part #
NetVanta 3120	1700600L2



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