NetVanta 3130

Fixed-port ADSL Access Router with Four-port Switch

Product Features

- Affordable routing solutions for business-class ADSL networks

- Integral four-port managed Ethernet switch

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

- Optional analog modem for dial backup or remote management

- Voice Quality Monitoring (VQM) and Mean Opinion Score (MOS) prediction

- Standards-based routing/ switching protocols, based on the widely-deployed NetVanta Series

- 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 Inititation Protocol (SIP) Application Layer Gateway (ALG) for Voice over IP (VoIP)

- Wi-Fi® Access Controller for centralized management of NetVanta Wireless Access Points (WAPs)

- Feature-rich ADTRAN® Operating System (AOS)

- Industry-leading five-year North American warranty

The NetVanta® 3130 is a fixed-port ADSL/ ADSL2/ADSL2+ IP access router with an integral four-port Ethernet switch. It provides a single ADSL network interface and four auto-sensing 10/100Base-T Ethernet interfaces. The NetVanta 3130 can also be pre-configured with a built-in analog modem for dial backup or remote management. This product is ideal for carrier-bundled service offerings and enterprise-level Internet access for secure, high-speed corporate connectivity. In addition to supporting ADSL (Annex A), and ADSL2, the NetVanta 3130 supports today's most advanced ADSL technology, ADSL2+, for applications taking advantage of its greater reach and higher bandwidth, up to 25 Mbps.

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 3130 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 3130 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 3130 also supports up to 10 simultaneous IPSec VPN tunnels and encryption algorithms like DES, 3DES, and AES. By supporting IPSec, the NetVanta 3130 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.

Smart Solutions for a Connected World.

ADTRAN®

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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
- **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:** 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 (DSL)
- 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), NAPT (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 Tunnel
- **Encryption:** DES, 3DES, and AES
- **Authentication Mechanisims:** 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 3130	1700611G2
NetVanta 3130 with DBU	1700610L2