

NETWORK AS A SERVICE MADE EASY

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NETVANTA 3140 FIXED PORT SECURE ACCESS ETHERNET ROUTER

Benefits

- 100 Mbps router with three Gigabit Ethernet interfaces
- Provides capability for Ethernet redundancy
- USB interface for integrated 3G/4G backup
- Optional eSBC functionality
- Voice Quality Monitoring (VQM) and Mean Opinion Score (MOS) prediction
- Utilizes standards-based routing protocols utilized by the widely deployed NetVanta Series
- IPv6 ready
- Compatible with industry leading softswitches and call agents
- Dynamic bandwidth allocation affords more efficient utilization
- Stateful inspection firewall for network security
- Quality of Service (QoS) for delay and jitter sensitive traffic like VoIP
- Supports 802.1q Virtual LAN (VLAN) Trunking
- Optional IPSec Virtual Private Network (VPN) for secure corporate connectivity across the Internet
- Onboard hardware encryption accelerator
- Command Line Interface (CLI) mimics industry de facto standard
- Network Address Translation (NAT) for IP address concealment
- Feature-rich ADTRAN® Operating System (AOS)
- Available in desktop or rack mountable versions
- Industry-leading, North American five-year warranty

Overview

The NetVanta® 3140 is a fixed-port, high-performance Ethernet router supporting converged access and high-quality voice services. It provides three routed, autosensing Gigabit Ethernet interfaces. This product is ideal for carrier-bundled service offerings, and enterprise class Internet access for secure, high-speed corporate connectivity. The NetVanta 3140 is available as either a desktop, or rack mountable platform.

Flexibility and Redundancy

The NetVanta 3140 is ideal for multiple applications where Ethernet redundancy is needed given the three Gigabit ports that can be either LAN or WAN facing. This can be achieved with two Ethernet delivered access services providing immediate failover to the active link anytime a link down event occurs. In addition, the NetVanta 3140 features USB interface that can be used for 3G/4G backup.

Many deployments still feature separate voice and data networks, and the NetVanta 3140 is a perfect fit for these as well with a single WAN link, the other two Gigabit interfaces can accomplish this.

Standards Protocols

The versatile hardware platform of the NetVanta 3140 is further complemented with the AOS. The AOS allows for the support of static and default routes, demand and policy based routing, and allows for fast, accurate network convergence using routing protocols such as BGP, OSPF, RIP, and PIM Sparse Mode for multicast routing. 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 3140 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 3140 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.

Enterprise Session Border Control (eSBC)

The NetVanta 3140 can provide optional eSBC functionality delivering a truly converged application platform at the customer premises. This feature is becoming mandatory in today's service deployment to normalize, secure and troubleshoot the SIP to SIP communication between a carrier network and the customers SIP compliant equipment.





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Security

The AOS provides a powerful, high-performance stateful inspection firewall. 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 3140 also adds the support for IPSec compliant VPN. The NetVanta 3140 supports encryption algorithms like DES, 3DES, and AES. With this upgrade, the NetVanta 3140 is fully compatible with other IPSec VPN equipped NetVanta products.

Management

The NetVanta 3140 Series can be remotely managed with the ability to discover devices, make mass configuration changes or firmware upgrades, backup/restore configuration, and generate inventory reports for asset management. ADTRAN also offers VoIP VQM and reporting, as well as an industry-leading, easy-to-use, Graphical User Interface (GUI). NetVanta 3140 is available in rack mountable, and desktop versions; and are backed by an industry-leading warranty.

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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