



NetVanta 1224R PoE/1224STR PoE

All-in-One Network Access with Power of Ethernet: Modular WAN interface, Firewall, Ethernet Switch, IP Router, and Optional VPN

Solution Benefits

- Converged LAN/WAN architecture
- Lower total cost of ownership
- Efficient bandwidth usage
- Space-savings, equipment consolidation
- Simplified network administration

Product Features

- Full-featured, managed Layer 2 switch-routers
- 24-port Ethernet, Fast Ethernet, Power over Ethernet, and Gigabit Ethernet functionality
- Unique all-in-one switching/routing/firewall/VPN platforms
- Interoperable in established, multi-vendor networks
- 8.8 Gbps switching capacity, non-blocking
- Gigabit SFP/1000Base-T uplink/stacking capability available
- Stacking up to 16 switches with single IP address management
- Link Aggregation, GVRP, and LLDP
- MAC-based port security
- SIP ALG for NAT traversal in VoIP applications
- Easily recognizable Command Line Interface (CLI)
- Intuitive web-based Graphical User Interface (GUI)
- Free firmware updates
- Unlimited, responsive, toll-free technical support
- Industry-leading five-year North American warranty

The NetVanta® 1000 Series from ADTRAN® is a standards-based, non-blocking Layer 2 switch-ing solution suitable for converged LAN/WAN access, interconnecting LAN devices, for network segmentation, or for powering LAN network devices. The NetVanta 1224R PoE (Power over Ethernet) and 1224STR PoE are unique, all-in-one access platforms that combine a 24 port Ethernet switch, an IP access router, a modular WAN interface with built-in DSU/CSU, a stateful inspection firewall, and the option for Virtual Private networking (VPN), all in a single 1U chassis. The 1224R PoE and STR PoE provide 24-port Ethernet and Fast Ethernet switching, with the STR PoE offering two extra 1000Base-T/SFP Gigabit ports for uplink or stacking capability.

Modular Hardware

A single WAN access slot in the back of the NetVanta chassis supports a variety of Network Interface Modules (NIMs) including ADSL, 56/64k, T1/FT1, T1/FT1 with DSX-1, E1/FE1, E1/FE1 with G.703, Dual T1, or a serial interface. The optional Analog or ISDN BRI Dial Backup Modules (DIMs) support a solid business continuity plan by dialing around a failed circuit to any PPP-compliant device. The ADSL NIM may also be used for broadband backup, allowing for larger bandwidth applications and faster data rates.

Standard-based Protocols

Based on the ADTRAN Operating System (AOS), these devices offer support for 802.1Q Virtual LANs (VLANs), Port-based switching features include Broadcast Storm Control, 802.1D and 802.1w Spanning/Rapid Spanning Tree, Link Aggregation, Port Mirroring, and GVRP. Link Layer Discovery Protocol (LLDP) auto-discovers neighboring Ethernet devices, simplifying integration into multi-vendor environments. In addition the integral IP router provides cost-effective Internet access, corporate Frame Relay or point-to-point connectivity using standard routing protocols such as BGP, OSPF and RIP.

Power over Ethernet

The NetVanta 1224R PoE and 1224STR PoE platforms provide standards-based 802.3af PoE functionality for powering IP phones, Wireless Access Points (WAPs), or other devices requiring LAN power. The products support up to 15.4 watts per port or 370 watts total.

Security

Rest assured, with the NetVanta 1224R PoE and STR PoE your network is protected. Each platform comes standard with a stateful inspection firewall to stop intruders and common Denial of Service (DoS) attacks. These products also offer a variety of data security features including MAC-based port security, multilevel user passwords, Secure Shell (SSH) and Secure Socket Layer (SSL) for encrypted user login, and Access Authentication and Authorization (AAA) with RADIUS, RSA SecurID, or TACACS+. For added security, these platforms offer a VPN upgrade supporting up to 500 IPsec tunnels using DES, 3DES or AES encryption.

Quality of Service (QoS)

The NetVanta switch-routers support QoS to prioritize mission critical traffic and control network congestion at various layers of the OSI model. On the LAN, the NetVanta 1000 Series offers 802.1p and DiffServ Class of Service (CoS). To assign priority to traffic, Weighted Round Robin and Strict Priority Queuing is used with four egress queues per port. For the WAN, DiffServ marking, Low Latency Queuing, and Weighted Fair Queuing provide priority for IP packets routed over the WAN. Together these features offer a powerful end-to-end QoS story.

VoIP Ready

In combination with the QoS features, a specialized SIP Application Layer Gateway (ALG) allows SIP traffic to traverse NAT-enabled firewalls. For an enterprise network, 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 both a Command Line Interface (CLI) that mimics the widely deployed, industry *de facto* standard and an intuitive web-based GUI with step-by-step configuration wizards. For a centralized enterprise-wide management scheme, ADTRAN offers n-Command®, an intuitive, scalable software suite for managing firmware revisions, push firmware upgrades and configuration changes, backup and restore configurations, and manage security policies and Access Control Lists (ACLs).





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■ **Key Management:** IKE (ISAKMP/Oakley)

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