NetVanta 1534P
Layer 3 Lite Gigabit Ethernet Switch

Product Features

- 28-port multi-layer Gigabit Ethernet switch
- 24-Gigabit Ethernet ports and four SFP optical ports
- Two standard 1 Gbps SFP ports and two enhanced 2.5 Gbps SFP ports
- 802.3af (PoE), 802.3at (PoE+) and Legacy PoE
- Non-blocking, up to 62 Gbps switching capacity
- Line rate Layer 2 and Layer 3 Lite capabilities
- DHCP network forensics
- 802.1Q VLANs, Private VLANs and VLAN assignment via 802.1x
- Advanced QoS with support for 802.1p and DiffServ prioritization with four queues per egress port
- Automate actions with Port Scheduler and TCL scripting
- VoIP ready with LLDP/LLDP-MED and voice VLANS
- Business-class security with RADIUS, TACACS+, 802.1x and port security
- Optimized for iSCSI Storage Area Networks (SANs) solutions
- Wi-Fi® access controller for centralized management of NetVanta Wireless Access Points (WAPs)
- Cable and SFP diagnostics provides easy to use trouble-shooting tools for copper and fiber cable
- Familiar CLI and Web GUI
- Limited lifetime warranty
- Next business day advance replacement

The NetVanta® 1534P is a managed, 28-port PoE, Layer 3 Lite, Gigabit Ethernet switch designed for fast, secure, cost-effective Local Area Network (LAN) switching. This scalable, full-featured business-class switch is perfect for higher-bandwidth Voice over IP (VoIP) applications needing PoE to power IP Phones, as well as Gigabit-to-the-desktop deployments. Experience the ease of management with an easy-to-use Web-based Graphical User Interface (GUI) and familiar Command Line Interface (CLI).

Hardware
The NetVanta 1534P rackmount switch provides 28 Gigabit Ethernet ports, consisting of 24 fixed 10/100/1000Base-T Ethernet ports, two 1.0 Gbps Small Form-factor Pluggable (SFP) ports, and two 2.5 Gbps enhanced SFP ports. Together the four SFP ports can provide up to 14 Gbps of bandwidth between interconnected NetVanta 1534P switches.

Multi-layer Switching
The NetVanta 1534P supports advanced multi-layer (Layer 2 and Layer 3 Lite) switching with up to 16 static routes allowing it to easily scale from SMBs to enterprise-size networks.

Standards Protocols
Based on the ADTRAN® Operating System (AOS), this device supports Link Layer Discovery Protocol (LLDP) which auto-discovers neighboring Ethernet devices, simplifying integration into multi-vendor environments.

VoIP Ready
NetVanta 1534P has been designed specifically for VoIP. The ability to automatically configure IP phones using LLDP-MED, and the ability to separate voice traffic onto voice VLANs, helps ease the deployment of VoIP.

Quality of Service
NetVanta switches also support QoS to prioritize mission-critical traffic like VoIP and control network congestion. NetVanta 1534P offers 802.1p and DiffServ Class of Service (CoS). It also supports frame tagging, as well as enforcement of tagged traffic received from trusted sources. Four egress queues (per port) are available for assigning traffic priorities using Weighted Round Robin (WRR) and Strict Priority Scheduling.

PoE
The NetVanta 1534P provides standards-based 802.3af (PoE), 802.3at (PoE+) and Legacy PoE functionality for powering IP phones, Wireless Access Points (WAPs), or other devices requiring LAN power.

Security
Rest assured, with NetVanta 1534P your network is protected. This product offers a variety of data security features including DoS protection, 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) for authentication with RADIUS and TACACS+. With features such as 802.1x and port security, administrators can assure that only authorized users are allowed access to the network.

AOS also features desktop auditing using DHCP in conjunction with Microsoft Network Access Protection (NAP) protocol to monitor the health of client computers. The two protocols work together to ensure that systems connected to the network are using appropriate corporate policies, such as firewall settings, antivirus settings and other client health information.

Port Scheduler
NetVanta 1534P allows ports to be enable or disabled based on time of day. This ability to schedule available ports allows for added security and can provide less power consumption during off hours saving on utility cost.

iSCSI Optimized
All ADTRAN NetVanta Gigabit Ethernet switches are optimized for iSCSI SANs deployments. Network administrators can take advantage of features such as Jumbo frame support (up to 13K), separation of iSCSI network traffic utilizing VLANs, and 802.3x flow control to seamlessly integrate ADTRAN switches with iSCSI SANs devices.

Administration
AOS offers both a CLI that mimics the widely deployed, industry *de facto* standard and an intuitive Web-based GUI with step-by-step configuration wizards. For automating setup and configuration, NetVanta 1534P supports Auto-Config which provides the ability to automatically obtain the switch configuration via DHCP.

AOS also offers network forensics to aid in troubleshooting network problems by allowing network administrators to easily locate devices on the network by MAC or IP address.

ADTRAN®

TL9000
TL19.1270

nsai
TL 9000
TELECOMMUNICATIONS
ISO 9001:2000
QUALITY
ISO 14001
ENVIRONMENT

ADTRAN is an ISO 9001, ISO 14001, and a TL 9000 certified supplier.

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Product Specifications

Physcial Interface
Ethernet Ports
- 24 –10/100/1000Base-T
- 2–Standard 1 Gbps SFP ports
- 2–Enhanced 1.0/2.5 Gbps SFP Ports
- Auto rate/duplex/MDI/MDI-X

Console Port
- DB-9, RS-232

Switching Performance
- Non-blocking Layer 2/3 Switching

Maximum Forwarding Bandwidth
- 62 Gbps

Layer 2 Support
- 802.1D Spanning Tree
- 802.3ad Link Aggregation
- Jumbo Frames (9K)
- 802.3x Flow Control
- 802.1w Rapid STP
- 8,000 MAC Addresses
- IGMP Snooping

Layer 3 Support
- 16 Static Routes
- UDP Relay
- IPv6 Management
- 8 Layer 3 Interfaces
- 232 ARP Entries

Diagnostics
- Port Mirroring
- LLDP-MED
- SFP Diagnostics
- LLDP (802.1AB)
- Cable Diagnostics
- Troubleshooting Page

Front Panel Status LEDs
- Power Status
- **LAN:** link, activity

Port Statistics
- Number of TX/RX Frames, Collisions, Errors

Quality of Service
- 802.1p and DiffServ
- Four output queues per egress port
- Weighted Round Robin (WRR)
- Strict Priority Scheduling

VLAN
- Port-based VLANs
- 802.1Q tagged trunked VLANs
- Voice VLANs
- Private VLAN Edge
- Dynamic 802.1x assigned VLANs
- Support for up to 255 active VLANs

Storm Control
- Broadcast, Unicast, and Multicast

PoE
- 802.3af (PoE) and 802.3at (PoE+) and Legacy PoE
- 370 Watts (Total)

Administration
- CLI (Console/Telnet/SSH)
- Web-based GUI (HTTP/SSL)
- n-Command® support
- RADIUS
- TCL Scripting
- Port Scheduler
- SNMP v3
- SYSLOG
- Email Alerts
- TACACS+
- Auto Config
- DHCP Network Forensics

Security
- Port authentication (802.1x)
- DoS Protection
- Microsoft Desktop Auditing
- Port Security
- Hardware ACLs

Wi-Fi Controller
- Controls up to 24 NetVanta WAPs

Environment
- **Operating Temperature:** 32° to 122° F (0° to 45° C)
- **Storage Temperature:** -4° to 158° F (-20° to 70° C)
- **Relative Humidity:** Up to 95%, non-condensing

Physical
- **Chassis:** 1U, 19 in. Rackmountable Metal Enclosure (Rackmount Brackets Included)
- **Dimensions:** 1.72 in. x 17.2 in. x 10 in. (4.4 cm x 43.7 cm x 25.4 cm) (H x W x D)
- **Weight:** 9.5 lbs. (4.3 kg.)
- **AC Power:** 110–230 VAC, 50/60 Hz
- **Power:** 500 Watts, 4.9 A Max

Agency Approvals
- FCC Part 15 Class A, UL 1950/CSA, RoHS

Ordering Information

Equipment	Part No.
NetVanta 1534P	**1702591G1**
NetVanta 1000BaseSX SFP Transceiver	**1200480E1**
NetVanta 1000BaseLX SFP Transceiver	**1200481E1**
NetVanta 2.5 Gbps Multimode SFP Transceiver	**1200482G1**
NetVanta 2.5 Gbps Singlemode SFP Transceiver	**1200483G1**
NetVanta 1 Meter SFP Interconnect Cable	**1200484G1**
NetVanta 3 Meter SFP Interconnect Cable	**1200484G3**