NetVanta 1534
Layer 3 Lite Gigabit Ethernet Switch

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DS

DATA SHEET

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
- Non-blocking, up to 62 Gbps switching capacity
- Line rate Layer 2 and Layer 3 Lite capabilities
- 16 static routes
- 802.1Q VLANs, Private VLANs and VLAN assignment via 802.1x
- VoIP Setup Wizard
- Advanced QoS with support for 802.1p and DiffServ prioritisation 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
- Optimised for iSCSI Storage Area Networks (SANs) solutions
- Wi-Fi access controller for centralised 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

NetVanta 1534 is a managed, 28-port, Layer 3 Lite, Gigabit Ethernet switch designed as an access layer or network backbone switch for Small to Medium-sized Enterprises (SMEs). With the combination of the advanced multi-layer switching fabric, high-bandwidth capabilities, and enhanced Quality of Service (QoS) features, the NetVanta 1534 is ideal in Gigabit-to-the-desktop deployments, and converged voice and data networks.

Hardware
The NetVanta 1534 rackmountable 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 located on the back. Together the four SFP ports can provide up to 14 Gbps of bandwidth between interconnected NetVanta 1534 switches. "Halfrack" in size, you can scale to 48 Gigabit Ethernet ports and eight SFP optical ports utilising two NetVanta 1543 switches side-by-side in a single 19-inch rack space.

Multi-layer Switching
The NetVanta 1534 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.

VoIP Ready
The NetVanta 1534 is VoIP-ready with the ability to automatically configure IP phones using LLDP-MED, and the ability to separate voice traffic onto voice VLANs, to simplify the deployment of VoIP. In addition, the switch includes a VoIP Setup Wizard (available via a Web-based Graphical User Interface (GUI) or Command Line Interface (CLI)), which automates the complete VoIP setup process reducing deployment time and eliminating errors. An on-demand VoIP report provides a printable summary of the switch VoIP configuration, as well as providing alerts and recommendations to improve performance. All NetVanta switches support QoS to prioritize VoIP traffic, 802.1p and DiffServ Class of Service (CoS).

Security
The NetVanta 1534 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 Authorisation (AAA) for authentication with RADIUS and TACACS+. With features such as 802.1x and port security, administrators can assure that only authorised users are allowed access to the network.

The ADTRAN Operating System (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 1534 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 Optimised
All ADTRAN NetVanta Gigabit Ethernet switches are optimised for iSCSI SANs deployments. Network administrators can take advantage of features such as Jumbo frame support (up to 13K), separation of iSCSI network traffic utilising VLANs, and 802.3x flow control to seamlessly integrate ADTRAN switches with iSCSI SANs devices.

Administration
AOS offers both a CLI and an intuitive Web-based GUI with step-by-step configuration wizards. For automating setup and configuration, NetVanta 1534 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

NetVanta 1534

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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

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 50° C)
- **Storage Temperature:** -4° to 158° F (-20° to 70° C)
- **Relative Humidity:** Up to 95%, non-condensing

Physical
- **Dimensions:** 4.4 cm x 20.3 cm x 27.9 cm (1.72 in. x 8 in. x 11 in.) (H x W x D) (Rackmount Brackets Included)
- **Weight:** 2.72 kg. (4 lbs.)
- **AC Power:** 100–250 VAC, 50/60 Hz
- **Power:** 30 Watts, 1 A Max

Agency Approvals
- AS/NZS CISPR 22 Class A (Australia and New Zealand) and AS/NZS 4771 (C-tick)

Ordering Information

Equipment	Part No.
NetVanta 1534	**4702590G1#IN**
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**
Dual Mounting Tray	**1700508F1**
Wall Mount Brackets	**1700507F1**

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