NetVanta 1531

Layer 3 Lite Gigabit Ethernet Switch

PulseSupply
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Product Features

- 12-port multi-layer Gigabit Ethernet switch

- Ten 10/100/1000Base-T Ethernet ports and two 1 Gbps SFP optical ports

- Fanless design for quiet operation

- Non-blocking, up to 24 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 Quality of Service (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 1531 is a managed, 12-port, Layer 3 Lite, Gigabit Ethernet switch designed as an access layer switch for small businesses and branch office deployments. With the combination of the advanced multi-layer switching fabric, high-bandwidth capabilities, and enhanced QoS features, the NetVanta 1531 is ideal for Voice over IP (VoIP), Gigabit-to-the-desktop and converged voice and data deployments. Experience ease of management with Web-based Graphical User Interface (GUI) and familiar Command Line Interface (CLI).

Hardware
The NetVanta 1531 is a desktop, wall mountable or rack mountable switch with a fanless design ensuring quiet operation. It provides 12 Gigabit Ethernet ports, consisting of 10 fixed 10/100/1000Base-T Ethernet ports and two 1.0 Gbps SFP ports. With two interconnected NetVanta 1531 switches mounted in a 19-inch rack (using the optional dual mounting tray), you can scale to twenty GigE ports, and up to four Gbps of backplane capacity, when using the SFP ports.

Multi-layer Switching
The NetVanta 1531 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 1531 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 GUI or 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 1531 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 1531 allows ports to be enabled 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 SAN deployments. Network administrators can take advantage of features such as Jumbo frame support (up to 9K), 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 1531 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

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Product Specifications

Physcial Interface

Ethernet Ports
- 10 –10/100/1000Base-T
- 2–Standard 1 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
- 24 Gbps

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

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

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

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

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

Wi-Fi Controller
- Controls up to 8 NetVanta WAPs

Environment
- **Operating Temperature:** 0° C to 50° C (32° F to 122° F)
- **Storage Temperature:** -20° C to 70° C (-4° F to 158° F)
- **Relative Humidity:** Up to 95%, Non-condensing

Physical
- **Chassis:** 1U High, 1/2 Rack Width—Desktop, Wall Mountable or Rack Mountable (with Optional Wall Mount or Rack Mount Brackets or Dual Mounting Tray)
- **Dimensions:** 4.3 cm x 21.3 cm x 28.3 cm (1.7 in. x 8.4 in. x 11.1 in.) (H x W x D)
- **Weight:** 1.6 kg. (3.5 lbs.)
- **AC Power:** 100–240 VAC, 50/60 Hz
- **Power:** 30 Watts, Max 2.5A

Agency Approvals
- AS/NZS CISPR 22 Class A, CE Mark, IEC/EN 60950-1, RoHS, C-tick and NOM

Ordering Information

Equipment	Part No.
NetVanta 1531	**4702570F1#IN**
NetVanta 1000BaseSX SFP Transceiver	**1200480E1**
NetVanta 1000BaseLX SFP Transceiver	**1200481E1**
NetVanta 1 Meter SFP Interconnect Cable	**1200484G1**
NetVanta 3 Meter SFP Interconnect Cable	**1200484G3**
Dual Mounting Tray	**1700508F1**
Wall Mount Brackets	**1200884G1**
19 in. Rack Mount Brackets	**1700511F1**