ADTRAN®

Data Sheet

NetVanta

1531P

Layer 3 Lite Gigabit Ethernet Switch

Gigabit   VoIP   Security

Benefits

- 12-port multi-layer Gigabit Ethernet switch

- 10 10/100/1000Base-T Ethernet ports and two 1 Gbps Small Form-factor Pluggable (SFP) optical ports

- Fanless design for quiet operation

- 802.3af (PoE), 802.3at (PoE+) and Legacy PoE

- Non-blocking, up to 24 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 Quality of Service (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 All NetVanta switches support QoS to prioritize VoIP 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

Overview

The NetVanta® 1531P is a managed, 12-port, Layer 3 Lite, Gigabit Ethernet switch with Power over Ethernet (PoE), designed for fast, secure, cost-effective Local Area Network (LAN) switching. This scalable, full-featured business-class switch is ideal for Voice over IP (VoIP) applications needing PoE to power IP Phones in small business environments and 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 1531P is a desktop, wall mountable or rack mountable PoE 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 Gbps SFP ports. Together, the two SFP ports can provide up to 4 Gbps of bandwidth between interconnected NetVanta 1531P switches.

Multi-layer Switching

The NetVanta 1531P supports advanced multi-layer (Layer 2 and Layer 3 Lite) switching with up to 16 static routes allowing it to easily scale from SMB to enterprise networks.

VoIP Ready

The NetVanta 1531P 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. Additionally, 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 provides alerts and recommendations to improve performance.

PoE

The NetVanta 1531P provides standards-based 802.3af(PoE), 802.3at (PoE+) and Legacy PoE functionality for powering up to eight IP phones, WAPs, or other devices requiring LAN power.

NETVANTA 1531P

Security
The NetVanta 1531P offers a variety of data security features including Denial of Service (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 andport security, administrators can assure that only authorized 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 and antivirus settings as well as other client health information.

Port Scheduler
NetVanta 1531P allows ports to be enabled or disabled based on time of day. The ability to schedule available ports allows for added security and less power consumption during off hours reducing utility costs.

iSCSI Optimized
All ADTRAN NetVanta Gigabit Ethernet switches are optimized for iSCSI SAN deployments. Network administrators can take advantage of features such as Jumbo frame support (up to 9K), 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 and an intuitive Web-based GUI with step-by-step configuration wizards. For automating setup and configuration, NetVanta 1531P 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.

Product Specifications

Physcial Interface

Ethernet Ports
- 10 – 10/100/1000Base-T (8 PoE-capable Ports)
- 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 Diagnosticsn 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 n Web-based GUI (HTTP/SSL)
- SYSLOG n 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:** 32° F to 122° F (0° C to 45° C)
- **Storage Temperature:** -4° F to 158° F (-20° C to 70° C)
- **Relative Humidity:** Up to 95%, Non-condensing

Physical

- **Chassis:** 1U, 1/2 Rack Width—Desktop, Wall Mountable or Rack Mountable (with Optional Rack Mount or Wall Mount Brackets or Dual Mount Tray)
- **Dimensions:** 1.7 in. x 8.4 in. x 11.1 in. (4.3 cm x 21.3 cm x 28.3 cm) (H x W x D)
- **Weight:** 4 Lbs. (1.8 kg.)
- **AC Power:** 100–240 VAC, 50/60 Hz
- **Power:** 110 Watts, Max 2A

Agency Approvals

- FCC Part 15 Class A, UL/CUL 60950-1

Ordering Information

Equipment	Part No.
NetVanta 1531P	1700571F1
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

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