

NetVanta

1560 Series

Layer 3 Gigabit Ethernet Switches with PoE+



Gigabit



VoIP



PoE Capable

Benefits

- 8, 24, or 48 10/100/1000 Base-T ports
- Up to four SFP+ ports with support for 10 Gbps
- RJ-45 console port and micro USB port for management
- Non-blocking Layer 2 and Layer 3 switching capacity up to 176 Gbps
- Fully managed (Web GUI, CLI, SNMP, JSON-RPC)
- Industry standard CLI and config
- 802.3at (POE+), 802.3af (PoE) and Legacy PoE
- Feature-rich ADTRAN switch engine for enterprise Ethernet switching
- Supports 802.1q VLANs and trunking, STP, IGMP
- Supports ERPS for high-level redundancy and up-time protection
- Advanced smart switching features (ACLs, L2/L3/L4 DiffServ, QoS policies, LACP link aggregation, broadcast control, denial of service protection)
- Faster VoIP deployments with VoIP VLAN and discovery
- Port queue-level policing and shaping

Overview

The NetVanta 1560 Series of enterprise-class, fully managed Gigabit POE+ switches are the best switches for Voice over IP (VoIP). They are purpose built for enterprises looking to upgrade their networks with high-performance, reliable, scalable and easy-to-manage switching solutions. NetVanta 1560 switches offer advanced multilayer switching, high-bandwidth capabilities, voice-aware features, and the right functionality to enable scaling from small business to enterprise-sized networks.

Best VoIP Switch, Period.

The NetVanta 1560s are the best switches for VoIP, delivering high voice fidelity, faster VoIP deployment, ease of management, and maximum network uptime.

- **Voice Fidelity:** These switches provide 12, 24 or 48 GigE ports with 10 Gbps SFP+ ports, delivering up to 80 Gbps of uplink capacity to support a greater number of HD voice connections, video streaming, Wi-Fi® and other bandwidth-intensive applications.
- **Faster Deployment and Ease of Use:** Custom VLAN Organization Unique Identifier (OUI) assignment simplifies VoIP deployments. The switches offer flexible management options including Web GUI and Command Line Interface (CLI).
- **Maximum Uptime:** NetVanta 1560 Series switches include an industry standard warranty, world-class product support, advanced hardware replacement, and optional ProCare Service minimizing business risk.

Security

NetVanta 1560 Series of Gigabit switches offer a variety of data security features including Denial of Service (DoS) protection, MAC-based port security, 802.1x port authentication, multilevel user passwords, Secure Shell (SSH), ARP Inspection and Secure Socket Layer (SSL) for encrypted user login. Additionally, these switches support Authentication, Authorization and Accounting (AAA) for authentication with RADIUS and TACACS+.

Redundancy and Convergence

These switches support common Ethernet protocols like Spanning Tree, Rapid Spanning Tree, Multiple Spanning Tree, and for even faster convergence, the G.8032 Ethernet Ring Protection Switching (ERPS). ERPS delivers subsecond failover capabilities to enterprise networks while ensuring interoperability based on a universal ITU specification.

Administration

The ADTRAN switch engine offers both a CLI and an intuitive Web-based GUI. To automate setup and configuration, NetVanta 1560 switches enable DHCP out of the box that provides the ability to discover and provision the switch configuration. Tools such as network forensics, cable and SFP diagnostics simplify troubleshooting.

NetVanta 1560s can be remotely managed by the ADTRAN n-Command® MSP platform. ADTRAN n-Command offers the ability to discover devices, make mass configuration changes or firmware upgrades, backup/restore configurations, and generate inventory reports for asset management. ADTRAN n-Command MSP also offers VoIP VQM and reporting, as well as an industry-leading, easy-to-use, GUI.

NETVANTA 1560 SERIES

Product Specifications

Physical Interfaces

Ethernet Ports

- **NetVanta 1560-08-150W:**
 - ◆ 10 x 10/100/1000Base-T
 - ◆ 2 x 1Gbps SFP Port
 - ◆ 150W PoE budget
- **NetVanta 1560-24-740W:**
 - ◆ 24 x 10/100/1000Base-T
 - ◆ 2 x 10 Gbps SFP+ Ports
- **NetVanta 1560-48-740W:**
 - ◆ 48 x 10/100/1000Base-T
 - ◆ 4 x 10 Gbps SFP+ Ports

Console Port

- RJ-45
- Micro USB

Switching Performance

- Non-blocking Layer 2/3 Switching
- 32,000 MAC addresses
- 4,095 VLANs
- Up to 176 Gbps forwarding bandwidth

Layer 2 Support

- 802.1q VLAN switching and Trunking
- 802.1d Spanning Tree
- 802.1w Rapid STP
- 802.1s Multiple STP
- ERPS G.8032 supporting up to 100 rings
- 802.3ad Link Aggregation
- Jumbo Frames (10240)
- IGMP v1/v2/v3 Snooping/Querier/Proxy
- MLD v1/v2 Snooping
- 802.3x Flow Control
- GVRP/MRP/MVRP
- Loop Protection

Layer 3 Support

- DHCP relay
- UPnP
- 1000 ARP Entries
- 128 Static Routes (IPv4 and IPv6)

Diagnostics

- Port and Flow Mirroring
- Uni Directional Link Protection
- LLDP (802.1ab)
- LLDP-MED
- Ping, Traceroute
- sFlow
- Cable Diagnostics

Front Panel Status LEDs

- Status
- LAN: Link, Activity
- LED Port Button: Toggle Port LEDs between Link, Activity, and POE Status

Quality of Service

- 802.1p, Drop Precedence Level, DSCP, Priority Code Point
- Eight hardware queues per port
- Classification and remarking ACLs
- Strict Priority Scheduling
- Weighted Round Robin (WRR)
- Policing and Shaping per port
- Port and Queue based
- WRED
- QoS Control List
- Drop Eligible Indicator
- Ingress and Egress Maps
- Storm Policing

VLAN

- 4K VLANs simultaneously
- Port-based VLANs
- 802.1Q Tagged Trunked VLANs
- Voice VLANs
- MAC-based VLAN
- Management VLAN
- Q-in-Q VLAN
- Private VLANs
- Protocol-based VLAN

Layer 3 Gigabit Ethernet Switches with PoE+

Security

- 802.1x Port Authentication
- L2 VLAN client isolation
- Port Security
- IP source guard
- RADIUS/TACACS+
- DoS Protection
- DHCP Snooping
- Hardware ACLs
- Users and Privilege Levels
- ARP Inspection

Administration

- CLI (Console/Telnet/ SSH)
- SNMP v1,v2c,v3
- Web-based GUI
- Dual image
- SYSLOG
- RMON
- sFlow
- RADIUS
- TACACS+
- NTP
- n-Command Support
- JSON-RPC

PoE

- 802.3af (PoE), 802.3at (PoE+) and Legacy PoE
- Max 30 Watts per Port
- 802.3az Energy Efficient Ethernet
- **NetVanta 1560-08-150W:**
 - ◆ 150 Watts (Total)
- **NetVanta 1560-24-740W:**
 - ◆ 740 Watts (Total)
- **NetVanta 1560-48-740W:**
 - ◆ 740 Watts (Total)
- Power Management
- PoE Scheduling

Environment

- **Operating Temperature:** 0° to 50°C (32° to 122°F)
- **Storage Temperature:** -20° to 70°C (-40° to 158°F)
- **Relative Humidity:** Up to 95%, non-condensing

Physical and Power

NetVanta 1560-08-150W

- **Chassis:** 1U Metal Enclosure,
- **Desktop, Wall and Rackmountable**
- **Dimensions:** 1.73 in. x 8.66 in. x 9.53 in.
(4.4 cm x 22 cm x 24.2 cm) (H x W x D)
- **Weight:** 4.63 lbs (2.1 Kg)
- **Voltage:** 100-240 VAC, 50/60 Hz
- **Max Power:** 170 Watts

NetVanta 1560-24-740W

- **Chassis:** 1U, 19in. (48.26cm)
- **Rackmountable**
- **Dimensions:** 1.73 in. x 17.4 in. x 8.31 in.
(4.4 cm x 44.2 cm x 21.1 cm) (H x W x D)
- **Weight:** 8.6 lbs. (3.9 kg)
- **Voltage:** 100-240 VAC, 50/60 Hz
- **Max Power:** 900 Watts

NetVanta 1560-48-740W

- **Chassis:** 1U, 19in. (48.26cm)
- **Rackmountable**
- **Dimensions:** 1.73 in. x 17.4 in. x 14.76 in.
(4.4 cm x 44.2 cm x 37.5 cm) (H x W x D)
- **Weight:** 12.35 lbs. (5.6 kg)
- **Voltage:** 100-240 VAC, 50/60 Hz
- **Max Power:** 900 Watts

Agency Approvals

- FCC Part 15 Class A
- IECS-003 Class A
- ETSI EN 300 386
- UL/CSA 60950-1 and IEC60950-1
- CE Marking
- RoHS Compliant
- RCM mark for Australia and New Zealand

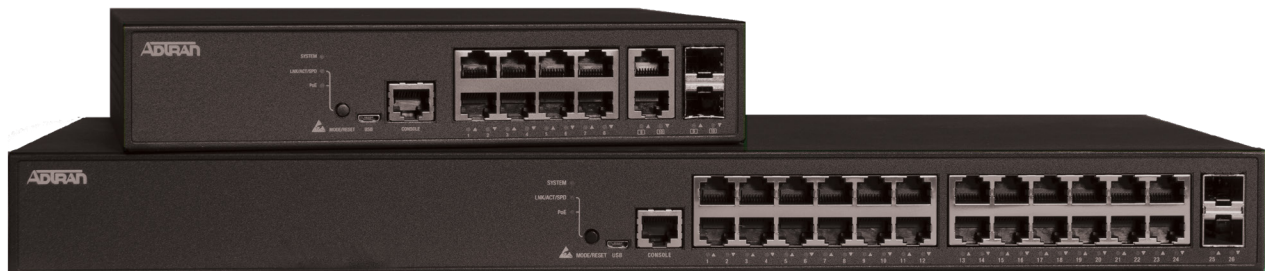
Warranty

- Limited Lifetime Warranty
 - ◆ Includes access to phone product support

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Ordering Information

Equipment	Part No.
Chassis	
NetVanta 1560-08-150W	17108108PF2
NetVanta 1560-24-740W	17108124PF2
NetVanta 1560-48-740W	17108148PF2
Brackets	
19" Rackmount Bracket – 8 Port	1700518F1
19" Rackmount Bracket – 24/48 Port	1700519F1
Wallmount Bracket – 24 Port	1700520F1
SFPs	
1000Base-SX 850nm SFP	1200480E1
1000Base-LX 1310nm SFP	1200481E1
1000BaseT Copper SFP	1200485G1
2.5 Gbps Multimode SFP	1200482G1
2.5 Gbps Singlemode SFP	1200483G1
10G Base-SR 850nm SFP+	1700485F1
10G Base-LR 1310nm SFP+	1700486F1
Interconnect Cables	
SFP+ (1 meter)	1710484F1
SFP+ (3 meter)	1710484F3
SFP+ (5 meter)	1710484F5



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