NetVanta

1550-24/48

Layer 3 Lite, Gigabit Ethernet Switches

Gigabit   VoIP   Cloud

Benefits

- **24 or 48 10/100/1000Base-T ports**
- **Four SFP+ ports support up to 10 Gbps each**
- **Multi-layer switching (Layer 2 and Layer 3)**
- **Non-blocking switching capacity up to 176 Gbps**
- **Faster VoIP deployments with VoIP Setup Wizard, Advanced QoS and "Zerotouch" phone setup**
- **Fully managed (Web GUI and CLI) and ProCloud-ready**
- **Standard RJ-45 console port and additional Micro-USB port for management**
- **Built-in surge protection**
- **Limited lifetime warranty**
- **Included advance hardware replacement**

Overview

The NetVanta® 1550 series of enterprise-class, fully managed Gigabit 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. The NetVanta 1550 switches offer advanced multi-layer switching, high bandwidth capabilities, "voice-aware" features, and include built-in surge protection. NetVanta 1550-24 and 1550-48 are fully managed, Gigabit switches that are also ProCloud-ready.

Best VoIP Switch, Period.
The NetVanta 1550 series Gigabit switches are the best switches for VoIP, delivering high voice fidelity, faster VoIP deployment and ease of management, and maximum network uptime.

- **Voice Fidelity:** The switches provide 24 or 48 GigE ports with four SFP+ (10 Gig) ports, delivering up to 80 Gbps of uplink capacity to support greater number of HD voice connections, video streaming, Wi-Fi® and other bandwidth-intensive applications.

- **Faster Deployment and Ease of Use:** Built-in VoIP Setup Wizard and zero-touch phone setup simplify VoIP deployments. The switches offer flexible management options including Web GUI, Command Line Interface (CLI) or Cloud (via ProCloud).

- **Guaranteed Maximum Uptime:** The NetVanta 1550 series switches have built-in

surge protection to mitigate the risk from power surges, delivering greater reliability. The switches also include limited lifetime warranties, 7x24 tech support, advance hardware replacement, and automated configuration backups to the cloud (via ProCloud℠), minimising business risk.

Hardware
The NetVanta 1550-24 and NetVanta 1550-48 rackmount switches support 24 and 48 10/100/1000Base-T ports and four SFP+ uplink ports. Each SFP+ port supports up to 10 Gbps uplinks delivering up to 80 Gbps of bi-directional throughput.

Multi-layer Switching
The NetVanta 1550 series support advanced multi-layer (Layer 2 and Layer 3 lite) switching with up to 32 static routes, to enable scaling from a small business network to enterprise size networks.

ProCloud—Cloud Managed Service
ADTRAN's ProCloud and ProCloud Plus cloud managed services are available for all NetVanta switches including the NetVanta 1550 series Gigabit switches. ProCloud offers:

- Faster scaling of networks via autoconnect and auto-configuration
- Centralised management of the network from any device at anytime
- Automated configuration backups and remote firmware upgrades
- Greater network insight with realtime and historical reports
- Comprehensive support services and advance hardware replacement options
- Upgrade option to ProCloud Plus to offload remote manage services to ADTRAN® experts

1550 24/48

Security

The NetVanta 1550 series 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) and Secure Socket Layer (SSL) for encrypted user login. In addition, the switches support Authentication, Authorisation and Accounting (AAA) for authentication with RADIUS and TACACS+.

The ADTRAN Operation System (AOS) also features a PCI Compliance Audit tool, Desktop Auditing via DHCP and Microsoft Network Access Protection (NAP) to offer enhanced security.

Administration

AOS offers both a CLI)and an intuitive Web-based GUI with configuration wizards. To automate setup and configuration, the NetVanta 1550 switches support Auto-Config which provides the ability to automatically obtain the switch configuration via DHCP.

AOS also offers network forensics, cable and SFP diagnostics and an on-demand VoIP report to simplify troubleshooting.

Port Scheduler

The NetVanta 1550 series Gigabit includes a built-in port scheduler that allows ports to be enabled or disabled based on time of day. This ability to schedule available ports allows for added security and energy conservation.

iSCSI Optimised

All ADTRAN NetVanta Gigabit Ethernet switches are optimised for iSCSI Storage Area Networks (SANs) 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.

Product Specifications

Physical Interfaces

Ethernet Ports
- **NetVanta 1550-24**: 24 10/100/1000Base-T
- **NetVanta 1550-48:** 48 10/100/1000Base-T
- Four Enhanced 1/10 Gbps SFP+ Ports
- Autorate/Duplex/MDI/MDI-X

Console Port
- RJ-45
- Micro USB

Switching Performance
- Non-blocking Layer 2/3 Switching
- 16,000 MAC addresses

Maximum Forwarding Bandwidth
- NetVanta 1550-24: 128 Gbps
- NetVanta 1550-48: 176 Gbps

Layer 2 Support
- 802.1d Spanning Tree
- 802.1w Rapid STP
- 802.3ad Link Aggregation
- Jumbo Frames (9K)
- IGMP Snooping/Querier
- 802.3x Flow Control

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

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

Front Panel Status LEDs
- Status
- LAN: Link, Activity
- LED Port Button: Toggle Port LEDs between Link, Activitity, and ActivChassis

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
- Guest VLAN
- Port-based VLANs
- 802.1Q Tagged Trunked VLANs
- Voice VLANs
- Dynamic 802.1x Assigned VLANs
- Supports up to 255 Active VLANs

Wi-Fi Access Controller
- Controls up to 24 NetVanta 160/161 WAPs

Administration
- CLI (Console/Telnet/ SSH)
- SNMP V3
- Web-based GUI
- SYSLOG
- ProCloud-ready
- Email Alerts
- n-Command Support
- TACACS+
- RADIUS
- Auto-Config
- TCL Scripting
- DHCP Network Forensics
- Port Scheduler

Product Specifications

Security

- 802.1x Port Authentication
- Port Security
- DoS Protection
- Hardware ACLs
- Microsoft Desktop Auditing
- AOS PCI Compliance Audit Tool

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 and Power

Chassis

- 1U, 19 in. (48.26 cm)
  Rackmountable Metal Enclosure

NetVanta 1550-24

- **Dimensions:** 1.75 in. x 17.4 in. x 8.75 in.
  (4.45 cm x 44.2 cm x 22.23 cm) (H x W x D)
- **Weight:** 5 lbs. (2.4 kg)
- **AC Power:** 100-240 VAC, 50/60 Hz
- **Power:** 460 Watts

NetVanta 1550-48

- **Dimensions:** 1.75 in. x 17.4 in. x 11 in.
  (4.45 cm x 44.2 cm x 28 cm) (H x W x D)
- **Weight:** 8 lbs. (3.8 kg)
- **AC Power:** 100-240 VAC, 50/60 Hz
- **Power:** 460 Watts

Agency Approvals

- FCC Part 15 Class A and B
- EN 300 386
- EN 61000-3-2
- EN 61000-3-3
- ICES 003 Class A
- AS/NZS CISPR22 Class A
- UL/CUL 60950-1
- EN 60950-1
- IEC 60950-1
- AS/NZS 60950.1
- RoHS Compliant

Warranty

- Limited Lifetime Warranty

Ordering Information

Equipment	Part No.
NetVanta 1550-24 Chassis	**17101524F1**
NetVanta 1550-48 Chassis	**17101548F1**
NetVanta 1000Base-SX SFP	**1200480E1**
NetVanta 1000Base-LX SFP	**1200481E1**
NetVanta 1000Base-T SFP	**1200485G1**
NetVanta 10GBase-SR SFP+	**1700485F1**
NetVanta 10GBase-LR SFP+	**1700486F1**
NetVanta SFP+ Direct Attached Cable (1 meter)	**1710484F1**
NetVanta SFP+ Direct Attached Cable (3 meter)	**1710484F3**
NetVanta SFP+ Direct Attached Cable (5 meter)	**1710484F5**