NetVanta 1524ST

Managed Layer 2 Gigabit Ethernet Switch

Product Features

- 24-port Managed Gigabit Ethernet Switch
- 20-10/100/1000Base-T and 4 combo 10/100/1000Base-T/SFP ports
- Non-blocking 48Gbps switching capacity
- 802.1Q tagged and port based VLANs
- Support for up to 255 active VLANs
- Single IP address management for up to 16 units
- Provides QoS to 802.1p marked traffic
- Spanning Tree and Rapid Spanning Tree Support
- MAC based port security
- Broadcast Storm Control
- Port Mirroring
- Link Aggregation, GVRP, and LLDP
- Web Based GUI
- Familiar Command Line Interface (CLI)
- SSL and SSH management encryption
- Free access to ADTRAN's n-Command NetVanta Internetworking Essentials Management Software
- Free firmware updates
- Industry-leading five-year North American warranty and toll-free support

The NetVanta 1524ST is the first in a series of Gigabit Ethernet switches from ADTRAN®. Offered at a price point less than half the cost of other 24-port Layer 2 Gigabit switches, this product is setting a new standard for affordable higher bandwidth and Gigabit to the desktop deployments. Multiple NetVanta Gigabit and Fast Ethernet switches may be stacked, with support for up to 16 switches per stack, and managed using a single IP address. Ideal for new installations or network upgrades, these switches can provide higher bandwidth for corporate and branch office LANs to support today's most bandwidth intensive applications.

NetVanta 1524ST uses the ADTRAN Operating System (OS) to provide advanced switching features. These switches provide non-blocking Layer 2 Gigabit Ethernet switching functionality, support for Virtual LANs (VLANs), advanced management, and remote configuration capability, all at a fraction of the cost of other managed Gigabit switch products.

The NetVanta 1524ST rackmount switch provides 24 Gigabit Ethernet ports, consisting of 20 fixed 10/100/1000Base-T Ethernet ports and 4 combo 10/100/1000Base-T/SFP ports. The 10/100/1000Base-T ports provide auto rate, auto duplexing, and auto MDI/MDI-X sensing. The Small Formfactor Pluggable (SFP) slots are available to accommodate optical interfaces using industry-standard SFP modules.

The NetVanta 1524ST uses industry standard switching protocols for interoperability and ease of integration into existing or multi-vendor networks. Support for 802.1Q trunking and port-based VLANs, allow network managers to separate broadcast domains for efficient network performance and traffic control. Up to 255 VLANs are supported. Generic VLAN Registration Protocol (GVRP) aids in VLAN management for larger networks. Spanning Tree (802.1D) and Rapid Spanning Tree (802.1w) protocols are user-configurable for faster network convergence. Other link-based features include Storm Control, Link Aggregation (802.3ad), and Port Mirroring. Compliant with 802.lab Link Layer Discovery Protocol (LLDP), the NetVanta 1524ST auto-discovers neighboring Ethernet devices, simplifying integration into multi-vendor environments NetVanta switches also support QoS to ensure network managers have the ability to prioritize mission critical traffic and control network congestion. The NetVanta 1524ST offers support for 802.1p QoS. Two egress queues (per port) are available for assigning traffic priorities using Strict Priority Queuing. These switches also offer a variety of data security features including multi-level user passwords, Secure Shell (SSH) for encrypted user login, and Authentication, Authorization and Accounting (AAA) for authentication with a RADIUS server.

The NetVanta 1000 Series is easily configurable with the ADTRAN Operating System's (OS) familiar Command Line Interface (CLI). or web-based GUI with step-by-step configuration wizards. The ADTRAN OS also supports FTP and TFTP for firmware upgrades and maintenance updates. Maintenance and feature updates are offered at no charge. For more comprehensive management of you NetVanta-based network, ADTRAN offers n-Command™. This ADTRAN-designed network management system manages firmware revisions, pushes firmware upgrades and configuration changes to remote sites, provides backup and restoration cofiguration of files and manages security policies and Access Control Lists (ACLs).

NetVanta Internetworking Essentials (recommended for installations of 15 or fewer NetVanta devices) is available by download at no charge from ***www.adtran.com/n-command***. For larger networks, ADTRAN offers the scalable, modular Enterprise Edition.

NetVanta 1000 Series Ethernet switches are easily coupled with other ADTRAN internetworking products including NetVanta 3000/4000/5000 Series Access Routers and NetVanta 2000 Series Firewall/Virtual Private Networking (VPN) appliances. All these solutions are backed by ADTRAN's industry leading support, services, and warranty.

ADTRAN, Inc.
Attn: Enterprise Networks
901 Explorer Boulevard
Huntsville, AL 35806

P.O. Box 140000
Huntsville, AL 35814-4000

256 963-8000 voice
256 963-8699 fax

General Information
800 9ADTRAN
info@adtran.com
www.adtran.com

Pre-Sales Technical Support
800 615-1176 toll-free
application.engineer@adtran.com
www.adtran.com/support

Where to Buy
877 280-8416 toll-free
channel.sales@adtran.com
www.adtran.com/where2buy

Post-Sales Technical Support
888 423-8726
support@adtran.com
www.adtran.com/support

ACES Installation & Maintenance Service
888 874-ACES
aces@adtran.com
www.adtran.com/support

International Inquiries
256 963 8000 voice
256 963-6300 fax
international@adtran.com
www.adtran.com/international

For the regional office nearest you, visit:
www.adtran.com/regional

ADTRAN is an ISO 9001: 2000 certified supplier.

ADTRAN is a TL 9000 3.0 certified supplier.

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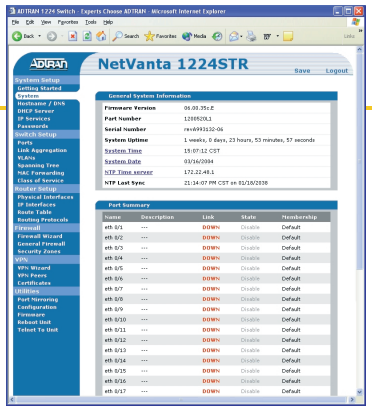

Product Specifications

Physical Interface

24 Gigabit Ethernet Ports
- 10/100/1000BaseT
- RJ-45
- Auto-rate/duplex/MDI/MDI-X

4 SFP Ports
- Industry Standard SFP interface
- SFP slots for optical connectivity

Console Port
- DB-9, RS-232
- 10/100Base-T management port

Performance
- Non-blocking
- **Switching Capacity:** 48 Gbps
- **Maximum Forwarding Rate (based on 64-byte packets):** 35.7 Mpps
- 8,000 MAC Addresses

Diagnostics
- Port Mirroring

Front Panel Status LEDs
- Power
- **LAN:** link, activity, stacking

Network Security
- MAC Based Port Security

Port Statistics
- TX/RX Frames
- Collisions
- Errors

Spanning Tree Support
- 802.1D Spanning Tree
- 802.1w Rapid Spanning Tree

Stacking
- Up to 16 switches/stack
- Utilizes built-in 1000BaseT or SFP interfaces
- Compatible with NetVanta 1000 Series Switches

Link Aggregation
- 802.3ad Link Aggregation
- Support for 12 trunk groups
- Trunk groups consist of up to 12 ports

Class of Service
- Enforces 802.1p priorities
- 2 output queues per egress port
- Strict Priority Queuing

Storm Control
- Broadcast and Multicast

VLAN Support
- Port Based VLANs
- 802.1Q tagged trunked VLANs
- Support for up to 255 active VLANs
- GVRP

Management

Management Methods
- Console CLI
- Telnet CLI
- SSH CLI
- n-Command
- Web-based GUI
- SSL GUI
- SNMP V2

Management Security
- Multi-level access control
- Port Security
- RADIUS AAA

- SNTP (Simple Network Time Protocol)
- TFTP/FTP firmware update
- Dual firmware images stored in unit
- DHCP client/server
- Config script download
- LLDP (802.1ab)

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

Physical
- **Chassis:** 1U, 19" rackmountable metal enclosure
- **Dimensions:** 1.7" H, 17.2" W, 7.8' D
- **Weight:** 7 lbs.
- **AC Power:** 100-250 VAC, 50/60 Hz
- **Power Dissipation:** 36 Watts (122 BTUs/hour)

Agency Approvals
- FCC Part 15 Class A
- UL 1950/CSA
- CE Mark
- A-tick

Ordering Information

Equipment	Part #
NetVanta 1524ST	1200560L2
NetVanta 1000Base-SX SFP (LC Connectors)	1200480L1
NetVanta 1000Base-LX SFP (LC Connectors)	1200481L1