



# NetVanta 1524ST

## Managed Layer 2 Gigabit Ethernet Switch

### Product Features

- 24-port managed Gigabit Ethernet switch
- 20-10/100/1000Base-T and four combo 10/100/1000Base-T/SFP ports
- Non-blocking 48 Gbps switching capacity
- 802.1Q tagged and port-based Virtual LANs (VLANs)
- Support for up to 255 active VLANs
- Single IP address management for up to 16 units
- Provides Quality of Service (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 Graphical User Interface (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 support, service, and warranty

**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. Ideal for new installations or network upgrades, these switches can provide higher bandwidth for corporate and branch office Local Area Networks (LANs) to support today's most bandwidth intensive applications.

### Hardware

The NetVanta 1524ST rackmount switch provides 24 Gigabit Ethernet ports, consisting of 20 fixed 10/100/1000Base-T Ethernet ports and four combo 10/100/1000Base-T/Small Form-factor Pluggable (SFP) ports. The 10/100/1000Base-T ports provide auto-rate, auto-duplexing, and auto-MDI/MDI-X sensing. The SFP slots are available to accommodate optical interfaces using industry-standard SFP modules. The 1524ST can support up to 16 units stacked together and is easily managed with a single IP address for the entire stack.

### Standards Protocols

Based on the ADTRAN Operating System (AOS), these devices offer support for Link Aggregation (802.3ad), Port Mirroring, port-based switching features including Storm Control, Spanning Tree (802.1D) and Rapid Spanning Tree (802.1w) for faster network convergence, link redundancy, and recovery from topology changes. Link Layer Discovery Protocol (LLDP) auto-discovers neighboring Ethernet devices, simplifying integration into multi-vendor environments.

### VLANs

All NetVanta switches support 802.1Q trunking and up to 255 port-based VLANs to allow network managers to separate broadcast domains for efficient

network performance and traffic control.

To help aid configuration in larger networks, Generic VLAN Registration Protocol (GVRP) is also available.

### Security

Rest assured, with the NetVanta 1524ST your network is protected. These products offer a variety of data security features including 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, RSA SecurID, and TACACS+.

### QoS

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 802.1p Class of Service (CoS). Each switch supports frame tagging as well as enforcement of tagged traffic received from trusted sources. Two egress queues (per port) are available for assigning traffic priorities using Strict Priority Queuing.

### Administration

The AOS offers both a CLI that mimics the widely deployed, industry *de facto* standard and an intuitive Web-based GUI with step-by-step configuration wizards. For centralized enterprise-wide management scheme, ADTRAN offers n-Command, an intuitive, scalable software suite for managing firmware revisions, push firmware upgrades and configuration changes, backup and restore configurations, and manage security policies and Access Control Lists (ACLs).

NetVanta 1000 Series of Ethernet switches are easily coupled with other ADTRAN inter-networking products including switch-routers, access routers, and multiservice access routers. All these solutions are backed by ADTRAN's industry-leading support and services.

**ADTRAN, Inc.**

International Department  
901 Explorer Boulevard  
Huntsville, Alabama 35806  
USA

[www.adtran.com/global](http://www.adtran.com/global)

**U.S. Headquarters**

+1 256 963 8000

+1 256 963 6300 fax

[international@adtran.com](mailto:international@adtran.com)

**International Customer Service**

+1 256 963 8716 voice

**Asia—Beijing, China**

+86 10 8527 5011

+86 10 8527 5010 fax

[sales.china@adtran.com](mailto:sales.china@adtran.com)

**Hong Kong**

+852 3187 7111

+852 2116 4084 fax

[sales.asia@adtran.com](mailto:sales.asia@adtran.com)

**Asia—Bangkok, Thailand**

+66 2 625 3085

+66 2 625 3142 fax

[sales.asia@adtran.com](mailto:sales.asia@adtran.com)

**Asia—Singapore**

+65 6248 4665

+65 6320 8521 fax

[sales.asia@adtran.com](mailto:sales.asia@adtran.com)

**Australia/New Zealand—****Melbourne, Australia**

+61 3 9658 0501

+61 3 9658 0599 fax

[sales.australia@adtran.com](mailto:sales.australia@adtran.com)

**Australia/New Zealand—****Sydney, Australia**

+61 2 9959 2485

+61 2 9959 2244 fax

[sales.australia@adtran.com](mailto:sales.australia@adtran.com)

**Canada—Montreal, Quebec**

+1 877 923 8726

+1 514 989 3198 fax

[sales.canada@adtran.com](mailto:sales.canada@adtran.com)

**Canada—Toronto, Ontario**

+1 514 940 2888

+1 514 989 3198 fax

[sales.canada@adtran.com](mailto:sales.canada@adtran.com)

**EMEA Regional Headquarters—****United Kingdom**

+44 1256 884055

+44 1256 884056 fax

[sales.emea@adtran.com](mailto:sales.emea@adtran.com)

[sales.europe@adtran.com](mailto:sales.europe@adtran.com)

**Mexico/Central America/****Caribbean—USA**

+1 256 963 3113

+1 256 963 6300 fax

[sales.latin@adtran.com](mailto:sales.latin@adtran.com)

[sales.caribbean@adtran.com](mailto:sales.caribbean@adtran.com)

[sales.mexico@adtran.com](mailto:sales.mexico@adtran.com)

[sales.ai@adtran.com](mailto:sales.ai@adtran.com)

**South America—USA**

+1 954 474 4424

+1 954 474 1298 fax

[sales.latin@adtran.com](mailto:sales.latin@adtran.com)

[sales.brazil@adtran.com](mailto:sales.brazil@adtran.com)

[sales.ai@adtran.com](mailto:sales.ai@adtran.com)



ADTRAN is an ISO 9001, ISO 14001,  
and a TL 9000 certified supplier.

I-61200560E2-8A 17.1 November 2007

Copyright © 2007 ADTRAN, Inc.

All rights reserved.

# NetVanta 1524ST



## Managed Layer 2 Gigabit Ethernet Switch

## Product Specifications

### Physical Interface

#### 24 Gigabit Ethernet Ports

- 10/100/1000Base-T
- RJ-45
- Auto-rate/duplex/MDI/MDI-X

#### Four 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 Mbps
- 8,000 MAC Addresses

### Diagnostics

- Port Mirroring
- LLDP (802.1AB)
- Ping
- Traceroute

#### Front Panel Status LEDs

- Power
- Link
- Stacking

### 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
- Single IP Address for entire stack
- Utilizes built-in 1000Base-T 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

### Quality of Service

- 802.1p and DiffServ
- Two 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
- Generic VLAN Registration Protocol (GVRP)

### Administration

- Familiar Command Line Interface (CLI)
- Web-based GUI
- n-Command support
- SNMP v3
- SYSLOG logging
- Email alerts (SMTP)
- Policy Statistics
- SNMP Client/Server

### Security

#### Secure Management

- Multi-level access control
- TACACS+
- RADIUS AAA
- SSH CLI and SSL GUI

#### Network Access Control

- Port Authentication (802.1X)
- MAC-based port security
- Private VLAN Edge

### 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:** 4.4cm H, 44cm W, 19.8cm D
- **Weight:** 3.18 kg
- **AC Power:** 100–250 VAC, 50/60 Hz
- **Power:** 36 watts (122 BTUs/hour)

### Agency Approvals

- FCC Part 15 Class A
- UL 1950/CSA
- CE Mark
- C-tick
- RoHS

## Ordering Information

Equipment	Part #
NetVanta 1524ST	4200560E2#1N
<b>Connectors</b>	
NetVanta 1000Base-SX SFP (LC Connectors)	1200480E1
NetVanta 1000Base-LX SFP (LC Connectors)	1200481E1

ADTRAN believes the information in this publication to be accurate as of publication date, and is not responsible for error. Specifications subject to change without notice. ADTRAN and NetVanta are registered trademarks of ADTRAN, Inc. and its affiliates in the U.S. and certain other countries. All other trademarks mentioned in this document are the property of their respective owners. Five-year warranty applies only to products sold in North America.

ADTRAN products may be subject to U.S. export controls and other trade restrictions. Any export, re-export, or transfer of the products contrary to law is prohibited. For more information regarding ADTRAN's export license, please visit [www.adtran.com/exportlicense](http://www.adtran.com/exportlicense)