



# NetVanta 1234/1238

## Product Features

- 24/48-port auto-sensing 10/100Base-T managed Layer 2 Ethernet switch
- 4 Gigabit uplink ports
- Non-blocking, up to 17.6 Gbps switching capacity
- 802.1Q tagged and port-based Virtual Local Area Networks (VLANs)
- Support for up to 255 active VLANs
- 802.1p and DiffServ prioritization with four queues per egress port
- Link aggregation, LLDP and LLDP-MED
- Weighted Round Robin (WRR) and WRR + expedite
- 802.1D Spanning Tree and 802.1w Rapid Spanning Tree support
- DHCP address management
- RADIUS authentication
- Port mirroring
- TFTP/FTP firmware upgrades
- Broadcast, Unicast, and Multicast storm control
- Wi-Fi® Access Controller for centralized management of NetVanta Wireless Access Points (WAPs)
- Cable diagnostics identifies cable length and detects shorts or open twisted pair
- Familiar Command Line Interface (CLI)
- Web-based Graphical User Interface (GUI)
- Limited Lifetime Warranty



## Layer 2 Fast Ethernet Switches

**The NetVanta® 1000 Series of managed, Layer 2, Ethernet switches is designed for fast, secure, cost-effective LAN switching.**

These scalable, full-featured business-class switches are perfect for VoIP applications by using robust Quality of Service (QoS) features, protecting the organization with advanced security capabilities, and ease of management with an easy to use Web-GUI and familiar Command Line Interface (CLI).

### Hardware

The NetVanta 1234 and 1238 rackmount switches support 24 and 48 10/100Base-T Ethernet ports with auto-rate, auto-duplexing, and MDI/MDI-X sensing. The NetVanta 1234/1238 also supports four Gigabit ports for uplink or stacking capability.

### Standard-based Protocols

Based on the ADTRAN® Operating System (AOS), these devices offer support for Link Aggregation (802.3ad), Port Mirroring, Port-based switching features including Broadcast 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.

### Security

Rest assured, with the NetVanta 1234 and 1238 your network is protected. These products also offer a variety of data security features including multilevel user passwords,

Secure Shell (SSH) and Secure Socket Layer (SSL) for encrypted user login, and Access Authentication and Authorization (AAA) for authentication with a RADIUS, RSA SecurID and TACACS+.

### Quality of Service (QoS)

NetVanta switches also support QoS to ensure network managers have the ability to prioritize mission critical traffic like VoIP and control network congestion. The NetVanta 1000 Series offers 802.1p and DiffServ Class of Service (CoS). Each switch supports frame tagging, as well as enforcement of tagged traffic received from trusted sources. Four egress queues (per port) are available for assigning traffic priorities using Weighted Round Robin (WRR).

### Administration

The AOS offers both a Command Line Interface (CLI) that mimics the widely deployed, industry *de facto* standard and an intuitive web-based GUI with step-by-step configuration wizards. For a 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 products including access routers, Wireless Access Points, IP Business Gateways, IP phones, and VoIP telephony solutions. All these solutions are backed by ADTRAN's industry-leading support, services, and industry-leading warranty.



**ADTRAN, Inc.**

Attn: Enterprise Networks  
901 Explorer Boulevard  
Huntsville, AL 35806

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

256 963-8000  
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/where2buy



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

61700594G1-8A July 2008  
Copyright © 2008 ADTRAN, Inc.  
All rights reserved.

# NetVanta 1234/1238

## Layer 2 Fast Ethernet Switches

### Product Specifications

#### Physical Interface

##### Ethernet Ports

- **NetVanta® 1234:** 24 10/100Base-T
- **NetVanta 1238:** 48 10/100Base-T
- Two 10/100/1000Base-T
- Two Combo 10/100/1000Base-T/SFP
- Auto Rate/Duplex/MDI/MDI-X

##### Console Port

- DB-9, RS-232

#### Switching Performance

- Non-blocking
- 8,000 MAC Addresses

#### Maximum Forwarding Bandwidth

- **NetVanta 1234:** 12.8 Gbps
- **NetVanta 1238:** 17.6 Gbps

#### Diagnostics

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

#### Front Panel Status LEDs

- Power Status
- LAN: Link, Activity

#### Port Statistics

- Number of TX/RX Frames
- Number of Collisions
- Number of Errors

#### Spanning Tree Support

- 802.1D Spanning Tree
- 802.1w Rapid Spanning Tree

#### Link Aggregation

- 802.3ad Link Aggregation
- Support for Six Trunk Groups
- Trunk groups consist of up to eight access ports or two uplink ports

#### Quality of Service (QoS)

- 802.1p and DiffServ
- Four output queues per egress port
- Weighted Round Robin (WRR)

#### VLAN Support

- Port-based VLANs
- 802.1Q Tagged Trunked VLANs
- Support for up to 255 Active VLANs

#### Wi-Fi® Controller

- Controls up to 24 NetVanta Wireless Access Points

#### Storm Control

- Broadcast, Unicast, and Multicast

#### Administration

- Familiar Command Line Interface (CLI)
- Web-based GUI
- n-Command® Support
- SNMP v3
- SYSLOG Logging
- Email Alerts (SMTP)
- TCL Scripting

#### Network Access Control

- Port Authentication (802.1x)

#### 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
- **NetVanta 1234**
  - **Dimensions:** 1.7" H, 17.4" W, 8.1" D
  - **Weight:** 5 lbs
  - **Power:** 25 Watts
- **NetVanta 1238**
  - **Dimensions:** 1.7" H, 17.4" W, 12.2" D
  - **Weight:** 8.5 lbs
  -

	Part #
NetVanta 1234	1700594G1
NetVanta 1238	1700598G1
NetVanta 1000BaseSX SFP (LC Connectors)	1200480E1
NetVanta 1000BaseLX SFP (LC Connectors)	1200481E1



NetVanta 1234



NetVanta 1238

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 various countries. All other trademarks mentioned in this document are the property of their respective owners. The NetVanta Limited Lifetime Warranty applies to select products. This limited warranty is applicable in all countries where ADTRAN products are sold and where ADTRAN and its authorized service providers offer warranty service. For complete warranty information, visit [www.adtran.com/warranty](http://www.adtran.com/warranty)

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)