



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
501 Explorer Boulevard
Huntsville, AL 35895

P.O. Box 14000
Huntsville, AL 35814-0000

256-963-8000
256-963-8899 fax

General Information
800-8ADTRAN
info@adtran.com
www.adtran.com

Pre-Sales
Technical Support
800-915-1176 toll-free
application@adtran.com
www.adtran.com/support

Where to Buy
877-286-8416 toll-free
channel_sales@adtran.com
www.adtran.com/wheretobuy

Post-Sales
Technical Support
888-423-4726
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
256-963-8899 fax
international@adtran.com
www.adtran.com/international

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



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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-Commands® 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
 - Power: 40 Watts
 - AC Power: 100-250 VAC, 50/60 Hz

Agency Approvals

- FCC Part 15 Class A, UL 9500/CSA, CE Mark, C-tick

Ordering Information

Equipment	Part #
NetVanta 1234	170059461
NetVanta 1238	170059861
NetVanta 1000BaseSX SFP (LC Connectors)	1200480E1
NetVanta 1000BaseLX SFP (LC Connectors)	1200481E1



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