



NetVanta 1234/1238

Product Features

- 24/48-port auto-sensing 10/100Base-T managed Layer 2 Ethernet switch
- Two standard 1 Gbps (shared copper and SFP) ports and Two enhanced 2.5 Gbps SFP ports
- Non-blocking, up to 23.6 Gbps switching capacity
- 802.1Q tagged and port-based VLANs
- Support for up to 255 active VLANs
- 802.1p and DiffServ prioritization with 4 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 network forensics
- Business-class security with RADIUS, TACACS+, 802.1x and port security
- 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 CLI and Web GUI
- Limited Lifetime Warranty
- Next Business Day Advance Replacement

Layer 2 Fast Ethernet Switches

The NetVanta® 1000 Series of managed, Layer 2, Ethernet switches is designed for fast, secure, cost-effective Local Area Network (LAN) switching. These scalable, full-featured business-class switches are perfect for Voice over IP (VoIP) applications. The switches use robust Quality of Service (QoS) features, protecting the organization with advanced security capabilities, and ease of management with an easy-to-use Web-based Graphical User Interface (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. In addition, each switch supports two 1.0 Gbps shared Small Form-factor Pluggable (SFP) or copper ports, and two 2.5 Gbps enhanced SFP ports. Together the four uplink ports can provide up to 14 Gbps of bandwidth between interconnected NetVanta 1234 or 1238 switches.

Standards-based Protocols

Based on the ADTRAN® Operating System (AOS), these devices offer support for Link Aggregation (802.3ad); Port Mirroring; and 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 Virtual LANs (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

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 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 to manage 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 of these solutions are backed by ADTRAN's outstanding support and services, and an industry-leading warranty.





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Layer 2 Fast Ethernet Switches Product Specifications

Physical Interface

Ethernet Ports

- **NetVanta 1234:** 24 10/100Base-T
- **NetVanta 1238:** 48 10/100Base-T
- Two Combo 10/100/1000Base-T/SFP
- Two Enhanced 1.0/2.5 Gbps SFP ports
- 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:** 18.8 Gbps
- **NetVanta 1238:** 23.6 Gbps

Diagnostics

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

Front Panel Status LEDs

- 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 6 Trunk Groups
- Trunk groups consist of up to 8 access ports or 2 uplink ports

Quality of Service (QoS)

- 802.1p and DiffServ
- 4 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
- IPv6 Management
- 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, 17.2" W, 10.1" D
 - **Weight:** 5 lbs
 - **Power:** 25 watts
- **NetVanta 1238**
 - **Dimensions:** 1.7" H, 17.2" W, 10.8" D
 - **Weight:** 8.5 lbs
 - **Power:** 40 watts
- **AC Power:** 100–250 VAC, 50/60 Hz

Agency Approvals

- FCC Part 15 Class A and UL 1950/CSA

Ordering Information

Equipment	Part #
NetVanta 1234	1702594G1
NetVanta 1238	1702598G1
NetVanta 1000BaseSX SFP (LC Connectors)	1200480E1
NetVanta 1000BaseLX SFP (LC Connectors)	1200481E1
NetVanta 1000Base-T SFP	1200485G1
NetVanta 2.5 Gbps multi-mode SFP Transceiver	1200482G1
NetVanta 2.5 Gbps single-mode SFP Transceiver	1200483G1
NetVanta 1 meter SFP Interconnect cable	1200484G1
NetVanta 3 meter SFP Interconnect cable	1200484G3



NetVanta 1234



NetVanta 1238