NetVanta 1234/1238 PoE

Product Features

- 24/48-port auto-sensing 10/100Base-T managed Layer 2 Ethernet switches
- 4 Gigabit uplink ports
- 802.3af and Legacy Power over Ethernet
- 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

Power over Ethernet, 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 and Power over Ethernet (PoE) capabilities to power IP Phones, 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.

PoE

The NetVanta 1234 PoE and 1238 PoE platforms provide standards-based 802.3af and Legacy PoE functionality for powering IP phones, Wireless Access Points (WAPs), or other devices requiring LAN power.

Security

Rest assured, with the NetVanta 1234 and 1238 PoE 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
Smart Solutions for a Connected World.

NetVanta 1234/1238 PoE

Power over Ethernet, Layer 2 Ethernet Switches

Product Specifications

Physical Interface

Ethernet Ports
- **NetVanta® 1234 PoE:** 24 10/100Base-T
- **NetVanta 1238 PoE:** 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 PoE:** 12.8 Gbps
- **NetVanta 1238 PoE:** 17.6 Gbps

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

Front Panel Status LEDs
- Power Status
- **LAN:** Link, Activity, PoE status

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

Power Over Ethernet
- 802.3af and Legacy Support
- Up to 15.4 Watts/Port
- **NetVanta 1234 PoE:** 180 Total Watts
- **NetVanta 1238 PoE:** 370 Total Watts
- Power Management

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
- SYSLOG Logging
- n-Command® Support
- Email Alerts (SMTP)
- SNMP v3
- 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 PoE**
  - **Dimensions:** 1.7" H, 17.4" W, 12.2" D
  - **Weight:** 10 lbs
  - **Power:** 225 Watts
- **NetVanta 1238 PoE**
  - **Dimensions:** 1.7" H, 17.4" W, 12.2" D
  - **Weight:** 12.5 lbs
  - **Power:** 500 Watts
- **AC Power:** 100–250 VAC, 50/60 Hz

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

Ordering Information

Equipment	Part #
NetVanta 1234 PoE	1700595G1
NetVanta 1238 PoE	1700599G1
NetVanta 1000BaseLX SFP (LC Connectors)	1200490E1
NetVanta 1000BaseLX SFP (LC Connectors)	1200481E1

NetVanta 1234 PoE

NetVanta 1238 PoE