



NetVanta 2300

Mid-Range VPN Gateway and Firewall

Product Features

- Standard-based IPsec VPN tunneling with DES/3DES/AES encryption
- Internet Key Exchange (IKE) for user authentication
- Stateful inspection firewall for network security
- Hardware Encryption Accelerator
- Up to 500 private encryption tunnels
- Built-in IP router supporting BGP, OSPF, and RIP
- Quality of Service (QoS) for delay sensitive traffic like VoIP
- Web-based and CLI remote management
- 10/100Base-T Ethernet interfaces for flexible connectivity
- Logging and alerts
- Industry-leading five-year North American warranty



The ADTRAN NetVanta® 2300 is a mid-range IPsec compliant gateway providing all the necessary components required to secure an integrated VPN solution. As a branch office or mid-size host security gateway, the NetVanta 2300 provides several key security features such as IPsec VPN tunneling with DES, 3DES, or AES encryption, stateful inspection firewall, and IKE for user authentication supporting public/private keys or digital certificates. In addition, it offers three 10/100Base-T Ethernet ports for LAN segmentation and DMZ applications, a hardware encryption accelerator for faster encryption throughput, and up to 500 simultaneous VPN tunnels.

Security

On a public infrastructure like the Internet, security is of the utmost importance. The NetVanta 2300 protects the corporate network against attacks with a built-in firewall and provides data security through encryption, authentication, and key exchange. The NetVanta 2300 employs a stateful inspection firewall that protects an organization's network from common cyber attacks including TCP syn-flooding, IP spoofing, ICMP redirect, land attacks, ping-of-death, and IP reassembly problems.

VPN Tunneling

NetVanta 2300 is an IPsec compliant device that provides secure communications over potentially insecure networks. As a security gateway, the NetVanta 2300 can support up to 500 private encryption communication tunnels and unlimited users on the LAN, while supporting encryption algorithms like DES, 3DES, and AES. In addition, Internet Key Exchange (IKE) can be used for user authentication supporting public/private keys or digital certificates, assuring that the proper VPN tunnel is established and that the tunnel has not been redirected or compromised.

Management

NetVanta's web-based GUI or CLI can be used for secure local or remote configuration of the NetVanta 2300. For a centralized, enterprise-wide management scheme, ADTRAN offers n-Command™, an intuitive, scalable software suite for managing larger NetVanta deployments and features robust productivity tools to effectively manage a distributed network. To administer user accounts, the NetVanta 2300 utilizes XAUTH using RADIUS and RSA SecurID to manage administration account lists. This device also offers built-in alert and logging mechanisms to warn administrators about activities that are going on in the network.

Quality of Service (QoS)

QoS is also supported for delay sensitive traffic like VoIP or video. To prioritize mission critical traffic and control network congestion, the NetVanta 2300 uses Low Latency Queuing, Weighted Fair Queuing (WFQ), Class-based WFQ, and DiffServ marking to establish priority of IP packets routed over the network.

VoIP Ready

In combination with the QoS features, a specialized SIP Application Layer Gateway (ALG) allows SIP traffic to traverse NAT-enabled firewalls. For an enterprise network, this interoperability allows IP PBXs, phones, and other SIP-based devices to set up, tear down, and pass voice and call control messages seamlessly through the integral NAT-enabled firewall.

Interoperability

The NetVanta 2300 offers the highest level of integration with ADTRAN's complete line of IPsec VPN equipped NetVanta products: NetVanta Ethernet Switches, NetVanta Access Routers, and NetVanta VPN/Firewall appliances. Together the NetVanta Series offers the most robust set of feature to address a wide range of enterprise VPN needs.



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

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Product Specifications

Physical Interface

- **Public:** Auto-Sensing 10/100Base-T
- **Private:** Three auto-sensing 10/100Base-T
- **Serial Port:** RS-232 for off-net configuration

Diagnostics

Front Panel Status LEDs

- **Power:** status
- **VPN:** status, transmit, receive
- **Public:** transmit, receive, link
- **Private 1:** transmit, receive, link
- **Private 2:** transmit, receive, link
- **Private 3:** transmit, receive, link

Security

Firewall

- Stateful Inspection Firewall
- Denial of Service (DoS) Protection
- Access Control Lists
- Application Level Gateways (ALGs)

Virtual Private Network (VPN)

- **IPSec Mode:** Tunnel
- **Encryption:** DES, 3DES, and AES
- **Diffie Hellman Group Support:**
 - Group 1: MODP 768
 - Group 2: MODP 1024
- **Hash Algorithms:**
 - MD5-HMAC
 - SHA1-HMAC
- **Authentication Mechanisms:**
 - XAUTH
 - X.509 Digital certificates
 - Preshared keys
 - Secure ID
 - DSS Signatures
- **Key Management:** IKE (ISAKMP/Oakley)
- **IKE Modes:**
 - Main
 - Aggressive
 - Perfect Forward Secrecy
 - Mode Config
- Dead Peer Detection
- NAT Traversal V2

Network Address Translation

- Basic NAT (1:1), NATP (Many:1), 1:1 Port Translation
- NAT compatible SIP ALG

Secure Management

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

Protocols

- IP
- eBGP/iBGP
- OSPF
- RIP (v1 and v2)
- GRE
- PPPoE

Quality of Service (QoS)

- Class-based Weighted Fair Queuing
- Low Latency Queuing
- Weighted Fair Queuing
- DiffServ marking and packet recognition
- DiffServ preservation through VPN tunnel

Administration

- Familiar Command Line Interface (CLI)
- Web-based GUI
- n-Command™ support
- SNMP v2
- SYSLOG Logging
- Email Alerts (SMTP)
- Policy Statistics

DHCP

- Server, Client, Relay
- MAC Address Masquerading

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

- **Size:** 1.25" H, 17.25" W, 7.75" D
- **Weight:** 7 lbs (shipping weight)
- **Power:** 100 - 250 VAC, 50/60 Hz

Agency Approvals

- FCC Part 15 (Class B)
- UL and Canadian UL (CUL), IEC/EN, CSA

Product Includes

- User manual
- AC power cord
- Rackmount brackets

Ordering Information

Equipment	Part #
NetVanta 2300	1202366L2



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