



# NetVanta 2050/2100

## Small Office and Home Office VPN Gateway and Firewall

### Product Features

- IPsec VPN tunneling with DES/3DES encryption
- Internet Key Exchange (IKE) for user authentication
- Stateful inspection firewall security
- NetVanta 2050: 5 private tunnels and up to 15 users
- NetVanta 2100: 10 private tunnels with unrestricted users
- Internal router
- Network Address Translation
- Logging and alerts
- Web-based management
- 10/100BaseT Ethernet interface for flexible connectivity



**The ADTRAN NetVanta™ 2050 and 2100 are small office/home office VPN/Security gateways providing all the necessary components required to secure an integrated VPN solution.**

Used primarily for remote access, the NetVanta 2050 is perfect for work-at-home telecommuters, while the NetVanta 2100 addresses the small office or corporate branch office. Each provide key security and data management features such as IPsec VPN tunneling, stateful inspection firewall, built-in router, authenticated remote user access, and Network Address Translation.

**Security:** On a public infrastructure like the Internet, security is of the utmost importance. The NetVanta 2050 and 2100 protect the corporate network against attacks with a built-in firewall and provides data security through encryption, authentication and key exchange. Both the NetVanta 2050 and the 2100 employs a stateful inspection firewall that protects an organization's network from common cyber attacks including TCP synflooding, IP spoofing, ICMP redirect, land attacks, ping-of-death, and IP reassembly problems. They also encrypt the data being sent out onto the network, using either the DES (Data Encryption Standard) or 3DES encryption algorithms. In addition, Internet Key Exchange (IKE) can be used for user authentication supporting public and private keys or digital certificates, assuring that the proper VPN tunnel is established and that the tunnel has not been redirected or compromised.

**VPN Tunneling:** The NetVanta 2050 and the 2100 are IPsec compliant devices that provides secure communication over potentially unsecure

network components. As a security gateway, the NetVanta 2050 can provide five private encryption communication tunnels supporting up to 15 users, while the NetVanta 2100 can provide up to 10 private encryption tunnels with unrestricted number of users. With the use of Network Address Translation (NAT), both devices can hide IP addresses from the external world. In addition, the internal router allows multiple users to share a VPN connection and can also direct incoming IP traffic.

**Web-based Management:** A remote NetVanta 2050 or 2100 can easily be configured and managed using a standard web browser. These devices offer built-in alert and logging mechanisms to warn administrators about activities that are going on in the network.

**Performance:** Unlike a software-implemented VPN solution, which depends on local CPU and memory performance to implement encryption, these standalone hardware platforms off-loads the CPU intensive encryption process. 3DES encryption significantly impacts CPU performance, possibly slowing all the local processes on the computer. Since the NetVanta 2050 and 2100 offer a dedicated processing platform to drive the encryption process, local computer performance is unaffected.

The NetVanta 2050 and the 2100 offer guaranteed interoperability with ADTRAN's complete line of NetVanta 2000 Series of VPN/Security gateways: NetVanta 2300 for branch offices or as a mid-size host, NetVanta 2400 for larger corporate host applications, and the software implemented, NetVanta VPN Client. Together the NetVanta 2000 Series offers the most robust features and functions to address a wide range of enterprise VPN needs.



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### Product Specifications

#### Physical Interface

- **WAN:** RJ-45 10/100 Auto-Sensing Ethernet interface
- **LAN:** RJ-45 10/100 Auto-Sensing Ethernet interface
- **Serial Port:** RS-232 for off-net configuration

#### Virtual Private Network (VPN)

##### Hash Algorithms

- MD5-HMAC 128-bit authentication algorithm
- SHA1-HMAC 160-bit authentication algorithm

##### Encryption

- DES-CBC 56-bit encryption
- 3DES-CBC 168-bit encryption

##### Diffie Hellman Group Support

- Group 1: MODP 768
- Group 2: MODP 1024

##### Authentication Mechanisms

- Preshared keys
- **X.509 Certificate Support:**  
RSA Signatures, DSS Signatures

##### Key Management

- IKE (ISAKMP/Oakley)

##### IPSec Mode

- Tunnel

##### IKE Modes

- Main
- Aggressive
- Quick

##### Firewall

- Stateful inspection firewall
- Cyber assault protection

##### Diagnostics

##### Front Panel Status LEDs

- Power – status
- VPN – status, transmit, receive
- LAN – transmit, receive
- WAN – transmit, receive

##### Routing

- TCP/IP
- Static Routes
- RIP V1 and RIP V2

##### Network Address Translation

- Basic NAT (1:1)
- NAT (Many:1)
- Reverse NAT (translation of an inbound session's destination IP address)
- Application Level Gateways for FTP, HTTP, POP3, and others

#### Administration

- Web-based management
- SYSLOG logging in WELF format
- Email alerts (SMTP)
- User and group access control policies based on time-of-day
- User accounting policy statistics

#### DHCP

- Server (to manage IP addresses on local network)
- Client (to acquire the WAN-side IP address from service provider); MAC Address Masquerading

#### PPPoE

- Client (to acquire the WAN-side IP address from service provider)

#### 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

- 1.625" H, 9.0" W, 6.375" D

##### Weight

- 2 lbs (shipping weight)

##### Power

- 12 VDC Power
- 4 W

#### Agency Approvals

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

#### Product Includes

- 12 VDC power supply
- 6 ft. crossover Ethernet cable
- User manual
- Quick start guide

## Ordering Information

Equipment	Part #
NetVanta 2050	1200362L1
NetVanta 2100	1200361L2



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