

## NetVanta 3305

Multi-slot Access Router Supporting up to Three T1s of Bandwidth

#### **Product Features**

- Qual interchangeable Network Interface Modules (NIMs)
- Qual auto-sensing 10/100Base-T interfaces for LAN segmentation
   Stateful inspection
- firewall for network security • Quality of Service (QoS)
- for delay-sensitive traffic like Voice over IP (VoIP) Voice Quality Monitoring (VQM) and Mean Quinton
- Score (MQS) prediction
  Inherent URL filtering
- Optional QSX-1 interface supplies TQM voice transport
- Comprehensive PPP dial backup scheme prevents network downtime
- VLAN Trunking (802.10) for routing between VLANs
   Recognizable Command
- Line Interface (CLI) and intuitive Web-based Graphical User Interface (GUI)
- Network Address Translation (NAT) for IP Address Concealing
- Optional VPN for secure corporate connectivity across the internet
- Industry-leading support, service and warranty

# The NetVanta 3900 Series of modular access routers is designed for cost-effective Internet access, corporate Frame Relay, point-to-point connectivity, ADSL, and Virtual Private Networking (VPN). The NetVanta 2000 Series currently consists

NetVanta 3000 Series currently consists of the NetVanta 3200, 3205, and 3305 with a variety of interchangeable NIMs and Dial Backup Modules (DIMs).

#### Modular Hardware

The NetVanta 3305 is a dual-slot, dual-Ethernet 1U high, nuckmountable metal enclosure. A single slot within any of the NetVanta 3000 Series will house a variety of NIMs and DIMs. For dial backup, an analog modern DIM or an ISDN BRI DIM is available for preventing downtime by didning around a failed circuit to any

#### PPP-compliant device. Standards Protocols

The versatile hardware platform of the NetVanta 3305 is further complemented with the ADTRAN Operating System (AOS). The AOS allows for the support of static and default routes, demand and policybased routing, and allows for fast, accurate network convergence using routing protocols such as BGP, OSPE and RIP In addition, the AOS terminates MPLS, Frame Relay, Multilink Frame Relay, PPP, Multilink PPP, PPPoE, PPPoA, RFC 1483, and HDLC Wide Area Network (WAN) protocols. Multihoming is also available to provide redundant or backup WAN links to multiple ISPs, guaranteeing a wide-area connection.

#### QoS

QoS is also supported for delay-sensitive unific like VoIP or video. To prioritize mission-critical traffic and control network congestion, the NetVanta 3305 uses Low Lettercy Queening, Weighted Flat Queeing (WFQ), Class-based WFQ, and DiffServ marking to establish priority of IP packets routed over the WAN.

#### VoIP Ready

In combination with the QoS features, a specialized Session Initiation Protocol (SIP) Application Layer Gateway (ALG) allows SIP traffic to traverse NAT-enabled frewalls. 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.

#### Security

For added security, AOS provides a powerful, high-performance stateful inspection firewall that can identify and protect against common Denial of Service (DoS) attacks like TCP syn flooding, IP spoofing, ICMP redirect, ping-of-death, and IP reassembly problems.

In addition, the AOS is capable of providing an inherent URL filtering package without the use of an external server. URL filtering is another level of security that allows system administrators to restrict Internet access by permitted or denying specific URLs. This URL filtering feature also includes the ability to produce top website reports of the most frequently requested websites, allowing system administrators to modify the URL filter biss.

The NetVanta 3305 also supports up to 500 simultaneous VPN tunnels, while supporting encryption algorithms like DES, 3DES, and AES. By supporting IPSec, the NetVanta 3305 is fully compatible with other IPSec VPNequipped NetVanta products.

#### Administration

The AOS offers both a CLI that mimics the widely deployed, industry de facto standard and an intuitive Web-based GUI with stepby-step configuration wizards.



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#### Multi-slot Access Router Supporting up to Three T1s of Bandwidth

Physical Interface

 Dual NIM: E1/FE1, E1/FE1 with 6.763, ADSL, SHDSL, Sarial, T1/FE1, T1/FE1 with DSX-1, Dual T1, and 56/64k
 DIM: ISDN BRI (U and S/T)

 Deal LAN: Auto-sensing 10/100Base-T Full Duplex (RJ-45)
 Consels Port

Diagnostics LEDs
Power
Deal WAN: link transmit monion

Dual WAN: link, transmit, receive
 Dual LAN: link, transmit, receive
 Dual Dial backup: transmit and receive

Processor and Memory
= 129 MHz, Materials MPC 888
= RAM: 64 MB = FLASH: 16 MB

Security

Firewall

Stateful Inspection Firewall

Denial of Service (DeS) Protection

Access Control Lists
Application Level Saturarys (ALSs)

Network Address Translation

Basic NAT (1:1), NAPT (Marry:1), and 1:1 Port Translation

NAT-compatible SIP ALE

Secure Management

Multi-level access central #RABIUS AAA

\*\*\*TACACS\*\*

Port Authentication 5902.bt/

Content Filtering

Interest URL filter Top website reports
Integration with Webserse

Optional Virtual Private Network (VPN)

IPSec Meds: 100 Tunnels

Excryption: DES, 30ES, and AES

Authoritication Mechanisms:

O XAUTH

O Snoum ID

○ X.993 Digital certificates ○ DSS Signatures ○ Preshared keys Quality of Service (QoS)

 Class-based Weighted Feir Duesing, Low Latency, and Weighted Feir Duesing
 DiffServ Packet Marking and Recognition

Frame Relay Fragmentation
Traffic Monitoring (NetFlow 9)
Frame Relay

■ Point to-point ■ RFC 1490 Encapsulation
■ LMI types: LMI, ANSI (Annex D), CCITT (Annex A)
and Static

Administration

Familiar Command Line Interface (CU)

Web-based GUI

SYSLDG Ic

■ Web-based GUI ■ SYSLDG logging ■n-Command support ■ Email alarts (SMTP) ■ SMMP v2 ■ Policy statistics ■ TCL Scripting

Client, Server, and Relay

Protocols

■ Frame Rolay ■ PAP and CHAP
■ Multilink Frame Rolay ■ Multihoming
■ Multi-VRF CE

Environment

Decreting Temperature: 0" to 50 °C (32" to 122 °F)

■ Storage Temperature: -20" to 70 "C (-4" to 158 "F)
■ Relative Herridity: Up to 95%, non-condensing
Physical
■ Chassic: 10 — 3.2 cm W. 48.8 cm H. 19.5 cm D

■ Weight: 3 kilograms ■ Power: 109-250 VAC, 50/60 Hz, 6 W max. Agency Approvals

Agency Approvals

# FOC Part 68 # CE Mark

# Industry Ceneda CS0S # RoHS

# U. & Canadian UI. (CUL), IEC/EN, CSA

# Australian C-tick (Chassis), A-tick (NIMs)

### Ordering Information

NetVanta 3305 Chassis with US Power 120250F1 with International Power 4200390E1/IN NetVanta 3305 Chassis with VPN with HS Power 4200680F7 with International Power 4200000F2/IN Enhanced Feature Pack VPN Upgrado 4200368E1 Modules NetVents E1/EE1 MIM 1200/88F1 Notherty F1/FF1 with 6 303 NIM 1200828F1 NerVente ADSL NIM (Acress A) 1200889E1 NerVenta ADSI NIM (Acresy Riv 1200889F1 NotVenta SHDSL NIM (Armex A) 1200939E1 NerWorts SHDSI NIM (Anney Ric 1200937F1 NotVenta TI/FTI NIM 1202862L1 Ner/Insta T1/FT1 NIM (NERS III) 1200882124MFRS NetVenta TUFT1 with DSX-1 NIM 1202963E1 NetVenta Dual T1 NIM 120062211 NetVenta ISDN BRI "U" DIM 1200865L1 NetVenta ISDN BRI "S/T" DIM 1200875L1 NotVenta Sorial DIM 1200885E1

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