

MiAVo VDSL Gateways

High Performance VDSL

High-performance network processor and integrated VDSL modem deliver speed and throughput ideal for FTTN deployments.

VGx Quality of Service

Netopia's VGx technology provides advanced service segmentation while ensuring crystal clear voice and broadcast-quality video.

TR-069 Manageability

Compliant with the DSL Forum's TR-069 remote management specification, MiAVo gateways are highly manageable for lower support costs and ease of deployment.

Netopia® MiAVo VDSL Gateways

Triple Play Gateways for VDSL and VDSL2 Networks



Netopia MiAVo Series

Netopia's MiAVo (Media in, Audio Video out) Series is designed specifically for the delivery of triple play services over ultra-broadband networks with advanced QoS, Wi-Fi, management, LAN distribution features, and available Wi-Fi.

- VGx Virtual Gateway technology ensures quality delivery of delay-sensitive voice and video services using advanced QoS algorithms and packet prioritization.
- Optional 3-D Reach® Wi-Fi technology provides superior wireless range, performance, and coverage for 802.11b/g wireless applications.
- TR-069 compliance ensures robust manageability, with enhanced management capabilities when paired with Netopia's NBBS TR-069 device management system.
- Planned support for multiple in-home service delivery methods including existing coaxial cabling and advanced wireless technologies, afford broad service distribution flexibility.
- Advanced WAN and LAN routing and security capabilities provide robust security.

The MiAVo Series is the ultimate triple play gateway for secure high-bandwidth service delivery with the highest quality of service and lowest cost of deployment.

The MiAVo VDSL Gateways enable the delivery of triple play services over IP or ATM-based VDSL or VDSL2 "first mile" networks.

The Netopia MiAVo VDSL residential gateways are designed specifically to streamline and enhance cost-effective delivery of voice, video, and data services over VDSL networks. Featuring Netopia's VGx QoS technology, all MiAVo gateways ensure quality delivery of delay-sensitive voice and video services such as VoIP and standard and HDTV. TR-069 compliance assures comprehensive remote manageability.

The MiAVo VDSL gateways integrate a high-performance network processor and DMT-based VDSL modem. Ideal for fiber-to-the-neighborhood (FTTN) applications, the MiAVo VDSL gateways support high-bandwidth VDSL over a single copper pair in the 'first mile' from the subscriber's home to the fiber node.

The MiAVo VDSL gateways are available in the following configurations for IP-based VDSL2 carrier networks:

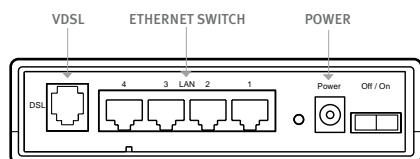
- MiAVo VDSL2 Conexant-based gateway offers a 4-port 10/100 Ethernet switch to cost-effectively connect Ethernet devices such as IPTV set-top boxes.
- MiAVo VDSL2 Ikanos-based gateway features Netopia's 3-D Reach® 802.11b/g Wi-Fi technology for wireless connectivity to laptops, PCs, and Wi-Fi VoIP phones, as well as a 4-port 10/100 Ethernet switch for wired devices such as Webcams and IPTV set-top boxes.

For ATM-based "first mile" networks, Netopia offers the MiAVo VDSL Ikanos-based gateway, which incorporates Netopia's 3-D Reach 802.11b/g Wi-Fi technology and a 4-port 10/100 Ethernet switch.

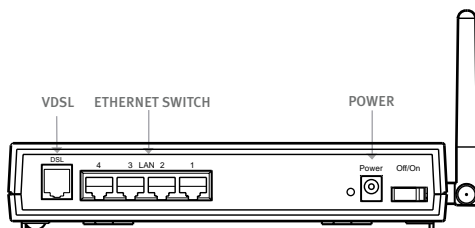
Netopia® MiAVo VDSL Gateways

Triple Play Gateways for VDSL and VDSL2 Networks

Technical Specifications



3396PC-VGx



3397GP-VGx, 3397GA-VGx

PART NUMBERS	NETWORK		WAN		LAN	
	IP	ATM	VDSL	VDSL2	4 PORT 10/100 SW	802.11g
3396PC-VGx	✓		✓	✓	✓	
3397GP-VGx	✓		✓	✓	✓	✓
3397GA-VGx		✓	✓		✓	✓

Hardware Features

- WAN Interface
 - 3396PC-VGx: VDSL2, RJ-11
 - 3397GP-VGx: VDSL2, RJ-11
 - 3397GA-VGx: VDSL, RJ-11
- LAN Interface
 - 3396PC-VGx:
 - 4 port 10/100 managed Ethernet Switch, RJ-45, half- or full-duplex/auto-sensing, MDI/MDI-X
 - 3397GP-VGx/3397GA-VGx:
 - Built-in 802.11g (5.4 Mbps) Wireless; backward compatible with 802.11b
 - 4 port 10/100 managed Ethernet Switch, RJ-45, half- or full-duplex/auto-sensing, MDI/MDI-X

Encoding and Line Speed

- VDSL-DMT
 - G.993.1
 - G.993.2 VDSL2 (Profile 8a, 8b, 8c, 8d, 12a, 12b Support)
 - ETSI TS 101 270-1 V1.3.1 and TS 101 270-2 V1.2.1
 - 997 and 998 Band Plan Support
 - U0 Band Support (25KHz to 276KHz)
- Up to 100 Mbps Downstream and 50 Mbps Upstream

Protocol Support

- Bridged or Routed Ethernet Encapsulation
- IP Multicast Pass-through
- PPP over Ethernet Gateway/Pass-through
- Packet Transfer Mode (PTM)
- ATM Adaptation Layer 5 (AAL5)
 - Up to 8 Permanent Virtual Circuits (PVCs)
 - PPP over ATM; LLC & VC Multiplexing

Bridging/Routing Function

- Network Address Translation (NAT), IP Maps, and Pinholes
- Static Routes
- IP Multicast Outbound Support Through NAT
- DHCP Client, Server and Relay
- DNS Proxy
- RIP1 & RIP2 on LAN/WAN
- VGx Virtual Gateway Technology
- Transparent Bridged Ethernet over ATM

Security

- Network Address Port Translation (NAPT)
- Stateful Firewall
- Configurable Firewall Function
- Virtual DMZ/IP Pass-thru
- Denial of Service Protection
- Software and Games Control
- VPN Pass thru for PPTP, L2TP and IPSec

Security (continued)

- IPSec VPN Gateway (upgrade)
 - DES, 3DES, and IKE
 - Hash Algorithm Support: MD5 and SHA1
- Security Monitoring and Logging (upgrade)

Wireless

- 3397GA-VGx; 3397GP-VGx: 3-D Reach Wi-Fi
 - Wireless Features
 - Integrated omni-directional antennas with diversity support
 - 100mW transmit power
 - Channel Set
 - North America: 1-11
 - Europe: 1-13
 - Supported Data Rates: 1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48, and 54 Mbps with auto-rate fallback
 - Wireless Security
 - WEP 64-, 128-, 256-bit encryption
 - 802.1x
 - WPA-PSK
 - Block Wireless Bridging
 - MAC Address Filtering
 - Closed System Mode

Management and QoS

- 2 Level Password Protected Access
- Remote and Local Management Options via Web UI (HTTP), HTTPs and CLI (Telnet)
- VGx Virtual Gateway Technology
- Software Upgradeable
- Statistic and Log Reporting, Remote Syslog Support
- 7-Layer Diagnostics
- TR-o69 remote management
- SNMP v1 & v2
- Utilities: Ping, Traceroute, Reverse DNS
- LEDs: Power, Link, Status and Activity Indicators

Regulatory

- FCC Part 68, Part 15, Class B
- UL Listed, CSA Approval
- European EMC & Immunity
- CE Mark
- Industry Canada

Environmental

- Operating Temperature: 0 to +40C
- Storage Temperature: 0 to 70C
- Relative Humidity: 20-80% Non-Condensing
- Power: External, 12V DC, 1000mA