



Motorola Netopia® 2200 Series ADSL2+ Gateways



Multiple LAN networking options

Supports single-user households and home networking

Customer-friendly installation

CD-less installation makes setup simple

Compatible service delivery

Works with most DSL service providers

Configured to support Voice-over-IP (VoIP) and streaming video services

Video-on-demand (VOD) functionality

Highly integrated design meets sensitive cost targets for large-scale deployments by service providers

The affordable, reliable residential gateway for optimized data, video, and voice.

Low Price, High Value

With this low-priced gateway, experiencing high-speed Internet is only the beginning. The 2200 Series has the ability to enable VoIP, experience broadcast quality video, or set up a small home network to share data, music, or video files. They are easy to install and can be automatically configured and remotely managed. The 2200 Series opens up the Internet without the high cost.

Affordable Triple-Play for the Home

The Motorola Netopia® 2200 Series ADSL2+ gateways are ideal for the home user who wants an affordable gateway armed with the

triple-play power of voice, video, and data service delivery.

The Power of Choice

Customers have the choice of connecting through an Ethernet port or a USB port for wired ADSL2+ connection. With available four-port Ethernet switch, the gateway can link multiple computers and devices to share data, music, and video files. Multiple computers can connect to the same network printer and print from anywhere in the home or small office.

SPECIFICATION SHEET

MOTOROLA NETOPIA® 2200 SERIES
ADSL2+ Gateways

Benefits

Consumers: High Quality, Flexible Delivery, and Video-on-Demand

The 2200 Series enables high-speed data, VoIP, and IPTV triple-play service delivery with the following benefits:

- **Broadcast-quality video and crystal-clear voice quality** provided by the Motorola VGx Quality of Service (QoS) technology
- **Multiple Service delivery from different providers** concurrently delivered to multiple TVs or devices, while maintaining service quality and rapid channel changing through support for TR-101 and IGMPv3
- **VOD functionality** enabled through Real Time Streaming Protocol (RTSP) support

Service Providers: Remote Management and Troubleshooting, and Cost-Effective Deployment

For the service provider, comprehensive remote manageability, including centralized remote provisioning, troubleshooting, and management, is offered through support of the DSL Forum TR-069 specification.

The 2200 Series gateways are ideal for cost-sensitive mass deployments to residential and small-office subscribers and feature Motorola's legendary ease of use, reliability, and security. The 2200 Series gives providers new opportunities for competitive differentiation and revenue generation.

The Motorola Netopia 2200 Series ADSL2+ Gateway (2246N-VGx)

The 2246N-VGx is built for the user who wants to branch out. It is equipped with two LAN options (Ethernet or USB), but the addition of a four-port Ethernet switch allows the user to set up a small network of computers or other Ethernet-enabled devices.



The Motorola Netopia 2200 Series ADSL2+ Gateway (2247NWX-VGx)

The 2247NWX-VGx is equipped with a built-in wireless access point for connecting to the Internet from anywhere in the home or small business—and with the four-port Ethernet switch, PCs and laptops in a home network can share the Internet from one IP address. Extra ports can be used to hook up network peripherals like printers or external storage devices.

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MOTOROLA NETOPIA® 2200 SERIES
ADSL2+ Gateways

With Motorola Netopia 2200 Series ADSL2+ gateways, users can download music and video files faster and enjoy VoIP and IPTV services, all with the security of Motorola's reliable firewall and quality-of-service standards.

The Motorola Netopia 2200 Series ADSL2+ Gateway (2240N-VGx)

The 2240N-VGx is equipped with a single Ethernet port for connecting to a laptop or desktop, perfect for the single-PC user. Download music and video files faster, enable a VoIP adapter, and all the while feel secure with Motorola's reliable firewall and quality-of-service standards.



The Motorola Netopia 2200 Series ADSL2+ Gateway (2241N-VGx)

The 2241N-VGx offers the same standards and quality of service as the 2240N-VGx, but is equipped with two LAN options for connecting a PC or laptop—Ethernet (standard) or USB 1.1.



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MOTOROLA NETOPIA® 2200 SERIES
ADSL2+ Gateways

Hardware

WAN INTERFACE

ADSL2+ RJ-11

LAN INTERFACE

2240N-VGx/	One 10/100 Ethernet (RJ-45)
2250N-VGx	
2241N-VGx/	One 10/100 Ethernet (RJ-45)
2251N-VGx	One USB 1.1
2246N-VGx	Four-port 10/100 Ethernet switch (RJ-45)
2256N-VGx	
2247NWG-VGx/	Built-in 802.11b/g wireless
2257NWG-VGx	Four-port 10/100 Ethernet switch (RJ-45)

LEDS

Power, Link, Status, Activity

Firmware

ENCODING AND LINE SPEED

ANSI T1.413 Issue 2
ITU 992.1 (G.dmt) Annex A, B, 992.2 (G.lite),
992.3 ADSL2 (G.dmt.bis), 992.4 ADSL2 (G.lite.bis), 992.5
ADSL 2+

PROTOCOL SUPPORT

ATM Adaptation Layer 5 (AAL5)
Up to eight Permanent Virtual Circuits (PVCs)
Bridged or routed Ethernet encapsulation
IP multicast pass-through
PPP over Ethernet gateway/pass-through
PPP over ATM LLC and VC multiplexing

BRIDGING AND ROUTING FUNCTIONS

Network Address Translation (NAT), IP maps, and pinholes
Static routes
IP multicast outbound support through NAT
DHCP client, server, and relay
DNS proxy
RIP1 and RIP2 on LAN/WAN
DDNS
Transparent bridged Ethernet over ATM
TR-101 support

SECURITY

Network Address Port Translation (NAPT)
Stateful firewall
Configurable firewall function
Denial-of-service protection
VPN pass-through for PPTP, L2TP, and IPSec

WIRELESS (2247NWG-VGX AND 2257NWG-VGX ONLY)

Antennas	Removable, omni-directional, with diversity support
3-D Reach® Express Wi-Fi®	
EMEA	100 mW transmit power
North America	200 mW transmit power
Channel Set	
North America	1–11
Europe	1–13
Data Rates	1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48, and 54 Mbps with auto-rate fallback
	WEP 64-, 128-, and 256-bit encryption
	802.1x, WPA, WPA-PSK, 802.11i/WPA2
	Wi-Fi Multimedia (WMM) support
	Transmit power control

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ADSL2+ Gateways

Physical

QOS AND TRAFFIC MANAGEMENT

VGx Virtual Gateway technology
Differentiated services (Diffserv)
IEEE 802.1p priority bits
IEEE 802.1q VLAN tagging
IGMP v2/v3 snooping/forwarding with fast leave
TR-111 support

DEVICE MANAGEMENT

TR-069 remote management
Remote and local management options using Web UI (HTTP) and CLI (Telnet)
Two-level password-protected access
Statistic and log reporting, remote syslog support
Seven-layer diagnostics
SNMP v1 and v2
Utilities Ping, traceroute, reverse DNS

WIRED

(2240N-VGx/2250N-VGx/2241N-VGx/2251N-VGx)

Weight	1.2 lb (550 g)
Dimensions	1.06 in H x 4.36 in W x 5.71 in L (2.69 cm x 11.07 cm x 14.50 cm)

WIRELESS

(2246N-VGx/2256N-VGx/2247N-WG-VGx/
2257N-WG-VGx)

Weight	1.2 lb (550 g)
Dimensions	1.2 in H x 5.2 in W x 6.8 in L (3.0 cm x 13.2 cm x 17.2 cm)

Specifications are subject to change without notice.

Regulatory

COMPLIANCE

FCC Part 68, Part 15, Class B
CE Mark
UL Listed, CSA Approved
European EMC and Immunity
DSL Forum TR-068 support
Industry Canada
RoHS-compliant

Environmental

TEMPERATURE

Operating	0 °C to 40 °C (32 °F to 104 °F)
Storage	-40 °C to 85 °C (-40 °F to 185 °F)

RELATIVE HUMIDITY

5% to 90%, non-condensing



MOTOROLA



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