



# 2247-62

## Netopia<sup>®</sup> ADSL2+ Wi-Fi<sup>®</sup> Gateway

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

### Highlights

- Affordable Triple-Play for the Home
- IPTV and Video-on-Demand (VOD) support
- Advanced QoS technology and multi-level queuing and packet prioritization deliver broadcast-quality video and crystal-clear voice.
- Support for the DSL Forum's TR-101 and IGMP v3 allows services from different providers to be delivered concurrently to multiple TVs or other devices, while maintaining service quality and rapid channel changing.

### Product Overview

The Motorola Netopia 2247-62 ADSL2+ Wi-Fi gateway combines an ADSL2+ modem, four-port Ethernet switch, and 802.11b/g Wi-Fi radio for residential users to connect anywhere in the home. The 2247-62 features 3-D Reach<sup>®</sup> Express 802.11g/b Wi-Fi<sup>®</sup> technology with a 200mW radio and diversity antennas providing superior Wi-Fi reach and coverage.

With this full featured gateway, high-speed Internet connectivity is only the beginning. Support for Wi-Fi Multimedia (WMM) assures advanced QoS for Wi-Fi delivery of voice-over-IP (VoIP), IPTV, and streaming broadcast-quality video. With four 10/100 Ethernet ports, the 2247-62 can be used to set up a home network to share a printer, data, music, and video files.

### User Friendly Installation

The gateway's friendly installation and ease of use is ideal for consumers who want a gateway that is simple to setup and protects their PC and other networked devices from security threats. Motorola gateways are supplied with an easy-to-use Motorola Wi-Fi installation wizard – an auto Wi-Fi provisioning tool – which seamlessly configures a secure Wi-Fi connection on a user's machine. When the Wi-Fi wizard is finished, a secure, encrypted Wi-Fi connection is established to the gateway, protecting the home and the user.

### Wi-Fi Protected Setup

The 2247-62 is equipped with Wi-Fi Protected Setup pairing technology. Wi-Fi Protected Setup is a certification program from the Wi-Fi Alliance that is

designed to ease the task of setting up and configuring Wi-Fi Security. Wi-Fi Protected Setup enables typical users who possess little understanding of traditional Wi-Fi configuration and security settings to automatically configure new Wi-Fi networks, add new devices, and enable security.

### Service Assurance

The 2247-62 gateway with its advanced features helps service providers monetize broadband networks while improving efficiency and reducing costs. By combining the highest-performing and lowest cost of ownership gateways in the industry, with comprehensive remote management, high-availability, high-reliability, advanced security, easy-to-use Wi-Fi installation and pairing tools, Motorola is offering an all-in-one approach to broadband home networking.

Motorola CPEs are configured to be remotely manageable via industry standard TR-069, which allows the CPE to be interoperable with any ACS solution that follows the Broadband Forum's TR-069/TR-098 specification.

Motorola gateways include advanced security features such as stateful packet inspection firewall protection, Virtual DMZ, and Denial of Service (DoS) protection. Wi-Fi security mechanisms include 802.11i/WPA2 with Wi-Fi Protected Setup (WPS), MAC Address Filtering, and closed system mode. Motorola's embedded firmware enables Wi-Fi deployments with high levels of quality, reliability, and customer satisfaction, with low operational and support costs for the service provider.



In addition to delivering high-quality gateways to its customers, Motorola is also committed to helping its customers reduce their environmental footprint. We approach this in several ways: improving the environmental profile of our products, running our operations in a safe and energy-efficient manner and helping our customers to be greener when they use our products.

Motorola's Netopia Gateways help service providers lower their energy consumption, thereby helping them reduce their carbon footprint. Motorola has a global commitment to be part of the solution to climate change, and has worked for years to continually improve our environmental profile. We are in step with our customers and their increasing interest in partnering with a company that helps them reduce their environmental impact, while offering compelling products to help them grow their eco-conscious customer base.

Motorola is working to make products with a reduced environmental impact. In the development of our next-generation Netopia Gateways, we have focused on energy efficiency, lead-free manufacturing, and packaging / recycling enhancements. Depending on models and market, our units are ENERGY STAR qualified and compliant with European Code of Conduct regulations. In addition, the devices and power supplies are lead-free and RoHS compliant. Finally, all new Netopia Gateways use environmentally friendly package designs. They are available in single bulk pack boxes that eliminate the use of suspension plastic and reduce box size, thereby reducing waste and transport costs. Motorola's VIP set-top packaging is 100% recyclable and is marked with standard recycling codes to make it easier for our customers to identify recycling opportunities.

## Specifications

### INTERFACES

#### WAN

ADSL2/2+, RJ-11

#### LAN

802.11b/g Wi-Fi  
Four-Port 10/100 Ethernet Switch, RJ-45  
(One Port configurable as WAN uplink)

### EMBEDDED FIRMWARE

#### Encoding and Access Protocols

ADSL Support  
ITU G.992.1 and ANSI T1.413 Issue2  
ADSL2 Support  
ITU G.992.3 with Amendments 1 and 2 (INP up to 16)  
ADSL2+ Support  
ITU G.992.5 with Amendment 2  
Annex A, Annex L (RE-ADSL2/2+) and Annex M support  
TR-067 and TR-100 Capable

#### ATM Adaptation Layer 5 (AAL5)

Eight Permanent virtual circuits (PVCs); UBR, CBR, VBRnrt, VBRrt  
ITU-T 1.610 (F4/F5) OAM  
DHCP Client, PPP, or 802.1x Supplicant Authentication

#### IP Addressing and Routing

IPv4 (IPv6 Capable)  
DHCP Server/Relay  
DNS Proxy, Dynamic DNS Support  
Multiple Subnet Support  
RIP1 & RIP2 and Static Routes

#### Traffic Management and QoS (Quality of Service)

Network Address Port Translation (NAPT)  
Application Level Gateway (ALG) Support  
IP Maps (Pinholes)  
Diffserv QoS with Weighted Fair Queuing  
IGMPv2, IGMPv3 with Fast Leave  
IEEE 802.1P/Q VLANs  
TR-101 Support

#### Security

Stateful Packet Inspection Firewall  
Virtual DMZ/IP Pass-through  
Denial of Service (DoS) Protection  
VPN Pass-through (PPTP, L2TP, IPSec)

#### Device Management

Two-Level Password Protected Access  
Statistics and Log Reporting

#### Remote Management

TR-069/TR-098, TR-104, TR-111, WebUI, CLI (Telnet), 802.1ag, 802.3ah

#### Local Management

TR-064, UPnP, WebUI, CLI (Telnet), Captive Portal

#### Utilities

Ping, Traceroute, Reverse DNS, NTP, Diagnostics

#### Localization

English, French, German, Italian, Portuguese (Brazil), Spanish (Latin America)

### Wi-Fi

#### 3-D Reach Express Wi-Fi

IEEE 802.11b/g  
200mW (23dBm transmit power on all channels)

#### Wi-Fi Characteristics

1x2 Integrated Omni-directional antennas with Diversity

#### Wi-Fi Features

Multiple BSSID (unique authentication per SSID)  
Wi-Fi Protected Setup (WPS)  
Wi-Fi Multimedia (WMM), WMM-PS (power save)  
Transmit Power Control  
Wi-Fi Scheduler

#### Wi-Fi Security

WEP (64-bit, 128-bit, 256-bit) encryption  
802.1x, WPA, WPA-PSK, 802.11i/WPA2, WPA2-PSK, EAP-TLS, EAP-TTLS, EAP-SIM  
Block Wi-Fi Bridging  
MAC Address Filtering

### INSTALLATION WIZARD

#### PC

Microsoft® Windows 2000, Windows XP™ SP2, Windows Vista, and Windows 7

#### Macintosh®

OS X

### REGULATORY COMPLIANCE

#### Americas

UL 60950, CUL, CSA, FCC Part 15 Class B, ICES-003, CEC Compliant, Energy Star

#### EMEA

EN 60950, EN 300 328, EN 301 489, RoHS Compliant, Code of Conduct (CoC) 2008 Compliant

### ENVIRONMENTAL SPECIFICATIONS

#### Operating Temperature

0 °C to 40 °C (32 °F to 104 °F)  
5% to 90% (Non Condensing) Relative Humidity

#### Storage Temperature

-40 °C to 85 °C (-40 °F to 158 °F)

#### Power Consumption

Max 540mA at 12VDC

### PHYSICAL SPECIFICATIONS

#### Dimensions

1.2 in H x 6.8 in L x 5.2 in W (3.0 cm x 17.2 cm x 13.2 cm)

#### Weight

1.2 lbs (550 kgs) (unit carton)

#### Placement

Horizontal desktop or vertical wall mount placement

### ORDERING INFORMATION

#### North America

2247-62-10NA

#### EMEA

2247-62-20EU

All features, functionality and other product specifications are subject to change without notice or obligation.



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Motorola, Inc., 101 Tournament Drive, Horsham, Pennsylvania 19044 U.S.A. www.motorola.com

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