



2247-N8

Netopia® ADSL2 802.11n Wi-Fi Gateway

The affordable, reliable residential 802.11n gateway for optimized data, video, and voice, with high-bandwidth potential for home and business networks.

Highlights

User-friendly online diagnostics and configuration

Integrated 802.11n wireless access point, 2 x 2 antenna array

Four gigabit Ethernet ports enable flexible, high-speed connectivity with Auto-MDIX and Auto-Negotiate

Support for Multicast IP Services

Efficient

Backwards compatible with 802.11 b/g

Compatible with Motorola's 3-D Reach® wireless adapters for easy expansion of the home local area network

Reliable and Secure

Wi-Fi Security WEP/WPA/WPA2

Advanced firewall with DoS protection and intrusion prevention

Wi-Fi Wizard for secure PC client setup

Remote configuration and monitoring capable

Product Overview

The Motorola Netopia 2247-N8 ADSL2+ 802.11n Wi-Fi gateway combines an ADSL2+ modem, four-port Ethernet switch, and 802.11b/g/n Wi-Fi radio for residential users to connect anywhere in the home. The 2247-N8 gateway is the perfect networking solution for the home, home office, or small business. It allows users to create a custom network to share a single ultra-broadband connection, files, and networked peripherals using wired or Wi-Fi connectivity.

With this full-featured gateway, high-speed Internet connectivity is only the beginning. It features support for Wi-Fi Multi-media (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-N8 can be used to set up a home network to share a printer, data, music, and video files. The 2247-N8 features 3-D Reach® Express 802.11g/b/n Wi-Fi®. Use of MIMO (multiple-input and multiple-output) technology with 802.11n eliminates the need for wires altogether—enabling users to easily/wirelessly network all of their 802.11 b/g/n equipped devices. The 2247-N8 with 802.11n enables users to maximize the high-bandwidth potential of their home or business network.

User Friendly Installation

The gateway's user friendly installation and ease of use is ideal for consumers who want a gateway that is simple to set up 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-N8 is equipped with Wi-Fi Protected Setup (WPS) pairing technology. WPS is a certification program from the Wi-Fi Alliance that is designed to ease the task of setting up and configuring Wi-Fi Security. WPS 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-N8 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 gateways are configured to be remotely manageable via industry standard TR-069, which allows the gateway 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, and MAC® Address Filtering. 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.



DATA SHEET

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Netopia® ADSL2+ 802.11n Wi-Fi Gateway

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. The 2247-N8 is Energy Star, CEC, CoC 2008, and RoHS compliant. And the gateway uses WMM-PS enabling low power mode for Ethernet ports, Wake-on-LAN, and Wi-Fi power control. 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 Netopia gateway packaging is 100% recyclable and is marked with standard recycling codes to make it easier for our customers to identify recycling opportunities.

INTERFACES

WAN

ADSL2/2+, RJ-11

LAN

802.11b/g/n Wi-Fi
Four-Port 10/100 Ethernet Switch, RJ-45
(One Port configurable as WAN uplink)
USB 2.0 Host

EMBEDDED FIRMWARE

Encoding and Access Protocols

ADSL Support
ITU G.992.1 and ANSI T.1413 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 & 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
Optional: French, German, Italian, Spanish (Latin America), Portuguese (Brazil)

WI-FI

3-D Reach Extreme Wi-Fi

IEEE 802.11b/g/n

Wi-Fi Characteristics

2x2 Omni-directional antennas with Diversity
2.4 GHz and 5 GHz

Wi-Fi Features

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

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

INSTALLATION WIZARD

PC

Windows® 2000, XP™ SP2, Vista™, and 7

Macintosh®

Mac OS® X

REGULATORY COMPLIANCE

Americas

UL 60950, CUL, CSA
FCC Part 15 Class B, ICES-003
FCC Part 68, CS-03, CEC Compliant, Energy Star

EMEA

EN 60950; EN 300 328, EN 301 489
RoHS Compliant
Code of Conduct (CoC) 2008 Compliant
K.21

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

1.38 in H x 6.5 in L x 5.12 in W (3.5 cm x 16.5 cm x 13.0 cm)

Weight

10.5 oz (0.297 kg)

Placement

Horizontal desktop or Vertical wall mount placement

ORDERING INFORMATION

North America

2247-N8-10NA

EMEA

2247-N8-20EU

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



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