



3347-02-ENT

Netopia® Wireless Gateway

Full-featured, extended-range wireless gateway for small offices

Highlights

Wireless access point includes 3D Reach® Extreme technology for increased range and performance

Multiple LAN options support small-office networking

Friendly installation for simple setup with no CD

Configured to support VoIP, IPTV, and Video-on-Demand (VOD) functionality

Robust security features protect PCs and other networked devices from unwanted intrusions

Advanced Quality of Service (QoS) features are designed to help service providers improve efficiency and reduce costs

The Motorola Netopia 3347-02-ENT Wireless Gateway combines an ADSL2+ modem, four-port Ethernet router, and an enhanced wireless access point for small-business users to connect anywhere in their business environment.

The 3347-02-ENT Wireless Gateway features 3-D Reach Extreme Wi-Fi® technology powered by an integrated on-board design that allows highest performance to be achieved from the design. 3-D Reach Extreme uses two radio antennas specifically tuned for both vertical and horizontal diversity, providing superior wireless reach, performance, and coverage to eliminate dropped connections and dead zones. The 3347-02-ENT further extends wireless reach using a new, more powerful 400mW radio, and reduces interference from other wireless products.

Support for Wi-Fi Multimedia (WMM) assures advanced Quality of Service (QoS) for wireless delivery of time-sensitive traffic such as VoIP. And to prevent unauthorized wireless access into your network, the 3347-02-ENT supports the latest encryption, including WEP, WPA, and WPA2.

With this full-featured gateway, experiencing high-speed Internet is only the beginning. The 3347-02-ENT is configured to enable Voice-over-IP (VoIP) phone service. The 3347-02-ENT is equipped with four 10/100 Ethernet ports, which can be used to set up a BASE-T small-office network to share a printer or transfer data.

DATA SHEET

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High-performance service delivery is assured through the following benefit:

- Class of Service applications such as voice are delivered using advanced QoS technology paired with advanced multi-level queuing and packet prioritization mechanisms.

Hardware Features

INTERFACES

WAN Interface	ADSL2/2+ (RJ-11), Ethernet WAN (optional)
LAN Interface	Four-port 10/100 Ethernet (RJ-45), wireless LAN
LEDs	Power, Ethernet, Wireless, DSL, Internet Status, and Activity

ADSL

ANSI T1.413 Issue 2
ITU 992.1 (ADSL), 992.3, (ADSL2), 992.5 (ADSL2+), ITU G.992.3 and G.992.5, Annex L (RE-ADSL2/2+) ITU G.992.3 Amendment 1 and 2 and G.992.5 Amendment 2 (INP up to 16)
Annex A, Annex B, and Annex M
G.992.2 Annex I Sealing/Wetting Current Metallic Termination (optional)
DSL Forum TR-067 and TR-100 ADSL Performance

NETWORK PROTOCOLS

ATM Adaptation Layer 5 (AAL5) Eight Permanent Virtual Circuits (PVCs); UBR, CBR, VBRnrt, VBRrt; ITU-T I.610 (F4, F5) OAM
RFC 2516 PPP over Ethernet (PPPoE)
RFC 2364 PPP over ATM (PPPoA)
RFC 1483/2684 Bridged Ethernet
RFC 1483/2684 Routed IP
PPP (PAP, CHAP, IPCP, LCP)
IPoE

LAN INTERFACE

Four switched Ethernet ports
IEEE 802.3U 10/100 Ethernet with half- and full-duplex auto negotiation and auto-MDIX crossover
IEEE 802.1Q VLAN tagging with IEEE 802.1Q Implicit or Explicit Port-Based VLANs and IEEE 802.1P VLAN Priority

IEEE 802.11B/G WIRELESS LAN

High Power Radio	400 mW (26 dBm) transmit power on all channels (100 mW EMEA) Antenna diversity (omni-directional) Optional reverse-SMA for external antenna support
Supported Data Rates	1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48, and 54 Mbps with auto-rate fallback
IEEE 802.11e WMM	Best Effort, Background, Video, Voice Multiple SSID Voice-over-Wi-Fi Wi-Fi-certified (WPA2-Personal and WMM)

WIRELESS LAN SECURITY

IEEE 802.1X
WEP64, WEP128, WPA, WPA-PSK, IEEE 802.11i, WPA2
Block wireless bridging
Closed system mode
Transmit power control

LAYER 2 BRIDGING

IEEE 802.1d MAC layer bridging
MAC address learning (up to 512 MAC addresses) and aging
Multicast groups
Configurable maximum packet size
IEEE 802.1Q VLAN tagging
Bridge and routing mode selection

LAYER 3 ROUTING

Static routing
Default route
Numbered or unnumbered WAN interface
Up to eight subnets on the LAN, with DHCP server associations
Transparent bridging option
Virtual router interfaces (ALAN)
Variable-length subnet mask
RFC 1058 RIP v1
RFC 2453 RIP v2
RFC 792 ICMP redirects
DHCP client, server, and relay agent with extensive DHCP option support and filter rules
DNS relay
Netbios proxy
BootP
PPP dial on demand
Heartbeat capabilities
IGMP multicast forwarding (LAN/WAN), snooping, and fast leave
RFC 1112 IGMP v1
RFC 2236 IGMP v2
RFC 3376 IGMP v3
Multiple primary LAN subnets

IP ADDRESS TRANSLATION

RFC 1631 network renumbering
NAT/PAT/NAPT (more than 6000 maximum simultaneous NAT/NAPT sessions)
NAT pass-through
Multiple PAT maps
Adjustable PAT range
Application layer gateways
SIP

QUALITY OF SERVICE

ATM	UBR, CBR RFC 2474 DiffServ traffic prioritization through TOS RFC 2598 DiffServ expedite forwarding (EF) RFC 2597 DiffServ Assured Forwarding (AF) and BE and NC support IEEE 802.1p QoS Configurable traffic prioritization by source and destination addresses, port, and protocol
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VPN (Gateway, Client or Server Termination Services)

VPN
PPTP
L2TP
LNS-to-L2TP access server
GRE
IPSec (IKE, AH, ESP, DES, 3DES)
L2TP encapsulation in IPSec
Initiate and terminate simultaneous VPN connections
Up to 15 VPN tunnels supported

HIGH AVAILABILITY

Backup default gateway through an external router
Schedule connections
RFC 2338 VRRP

SECURITY

Built-in firewall, packet filtering on source/destination address, service, and protocol; up to 255 rules in up to 8 filter sets
Policy-based routing
SPI (Stateful Packet Inspection) Firewall
Denial of Service attacks (DoS)
Distributed DoS (DDoS)
Filter on source and/or destination IP/port value
Filter on SYN, ACK flags and ICMP
IPSec VPN Gateway, Tunnel Mode

Hardware accelerated; DES and 3DES encryption; manual key and IKE; AH and ESP; MD5 and SHA1

Tiered Admin access
4 management users profiles
RFC 2865 RADIUS (AAA) management authentication support
RFC 1492 TACACS+ Authentication

MANAGEMENT

Management via menu-driven or CLI interfaces with console or Telnet access
Easy setup with menu-driven interface
Console Tiered Access, 2 levels of configuration access
Configuration Management, up to 3 backup user defined configurations
System diagnostics and logs
TFTP or X-Modem download/upload of new firmware and configuration files
Utilities: ICMP ping, trace route, Telnet client, and Syslog client
LEDs: power, WAN, and Ethernet; link, status, activity indications
CLI (full featured scriptable with integrated help)
Internal Dial-in console mgmt
Configurable console timeout
Management port reassignment
Device and WAN event logs
Logging and scripting
SNMP v1 & 2 support with enterprise MIBs
Persistent configuration storage during power down
Firmware updates via TFTP
Time/date set via NTP

REGULATORY

US	FCC Part 68, Part 15 Class B, UL 60950, CEC Compliant Power Supply
Canada	CS-03, ICES-003, RSS-210, CUL, CSA
Europe	R&TTE, EN 300 328, EN 301 489, ITU K.21, RoHS Compliant

ENVIRONMENTAL

Operating Temperature:	32 °F to +104 °F (0 °C to +40 °C)
Storage Temperature	-40 °F to +185 °F (-40 °C to +85 °C)
Relative Humidity	5 to 90% (non-condensing)

WEIGHT AND DIMENSIONS

Weight	2.5 lbs (1134g)
Dimensions:	7.7 in L x 6.7 in W x 1.5 in H (196 mm x 171 mm x 39 mm)

DSL Forum TR-068 compliant industrial design
Horizontal desktop placement, or vertical standing
Built-in wall mounting keyholes

* Actual speeds will vary, and are often less than the maximum possible. Data transmission speed is approximate and depends on the configuration and capacity of your network, as well as the amount of traffic on the network.

** Actual data throughput will be less due to physical layer overhead (error correction coding, burst preamble, and guard interval).

*** Actual speeds will vary. Maximum speeds of 30 Mbps are only attainable with A-TDMA or S-CDMA technology with minimal firewall and NAT functions running.

**** With S-CDMA-enabled CMTS.

Certain features may not be activated by your service provider, and/or their network settings may limit the feature's functionality. Additionally, certain features may require a subscription. Contact your service provider for details.

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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