

## MGW-3500 MultiService Gateway



### Key Features:

- Up to 1,024 simultaneous users
- Support for web (UAM), 802.1x and MAC authentication
- Integrated stateful firewall enables direct connection to the Internet
- Colubris “Zero Configuration” adapts to any client device
- Embedded captive portal provides customizable splashpage
- Colubris Adaptive NAT™ supports VPN applications

### Overview

The Colubris Networks MGW-3500 is a high capacity multiservice gateway purpose-built for hotspot and guest networking applications. Its flexible feature set enables service providers and enterprises to build highly scalable networks that deliver a rich set of Internet access services.

The MGW-3500 enforces subscriber service policies, reports per-user activity information to a central billing system, and performs a range of critical networking functions that enable users to seamlessly access the Internet. It adapts to a client PC's default network settings and authenticates the subscriber using a secure web interface. Access to network resources can be controlled based on subscriber profiles stored locally or in a central RADIUS server. The MGW-3500 provides location information that enable access policies to be customized per hotspot.

The MGW-3500 can leverage a switched VLAN infrastructure to deliver multiple network services. It segregates traffic associated with each service on a separate VLAN, which connects with associated MAPs. Services can be customized by mapping the traffic to unique AAA servers, captive portals and DHCP servers. Bandwidth management features enable the network operator to limit bandwidth per user, or per service.

The MGW-3500 integrates a stateful firewall and IP router, enabling it to support a range of network architectures. Adaptive NAT™ enables the MGW-3500 to deliver seamless support for session-oriented subscriber applications, such as VPN clients. GRE tunnels can be used to centralize allocation of IP addresses even when the hotspot is connected by a third-party network. The firewall protects the MGW-3500's Internet connection from intruders, and an integrated VPN client secures all authentication and management traffic between the hotspot and NOC.

The MGW-3500 is part of a complete WLAN system from Colubris Networks. It may be used in conjunction with Colubris Networks MultiService Access Points and the Colubris Network Management System, which provides centralized configuration, monitoring and troubleshooting support for an entire multi-site hotspot network.

## Product Specifications

Model Number	MGW-3500 MultiService Gateway
Network Ports	(2) Auto-sensing 802.3 10/100 BASE-T Ethernet
Power Inputs	90-137 VAC, or 180-265 VAC
Temperature Range	Operating: 5°C to 40°C
Humidity	20% to 90% typical (non-condensing)
Regulatory Approvals	FCC Part 15, CSA NRTL (C22.2 No 950, UL 1950), Canada Class A ICES-003, Australia and New Zealand Class A, United Kingdom NS/G/1234/J/100003, EU EMC Directive 89/336/EEC, Class A CISPR 22/EN55022 Japan VCCI
Overall Physical Dimensions	H: 4.37 cm (1.75 in); L: 65.5 cm (25 in); W: 44 cm (17.32 in)

## Networking Specifications

Networking	DHCP: Server (RFC 2131), Client, Relay, Option 82 (RFC3046)
	DNS Relay; SMTP Redirection; Stateful Firewall
	Bridging and Routing: IEEE 802.1d bridging; Static routing; RIP v1 (RFC 1058) and v2 (RFC 1723)
	Address Management: NAT (RFC 1631); Colubris Networks Adaptive NAT™; CIDR (RFC 1519)
	Other: RADIUS Client (RFC 2865 and 2866); PPPoE Client (RFC 2516); ICMP (RFC 792); IEEE 802.1q, VLAN Tagging
Network Management	SNMP v1 and v2: MIB-II with TRAPS; Colubris Networks extensions for user session control and downstream AP management; RADIUS Authentication and Accounting MIBs (RFC 2618, RFC 2620);
	RIP v2 extension MIB (RFC 1724)
	Embedded web GUI management tool with secure access (SSL and VPN)
	Remote Syslog
	Scheduled configuration upgrades from central server; downloadable firmware
Access Control Functions	SSL protected Web-based authentication (UAM)
	MAC address authentication
	Web: Web-proxy server with customizable HTML pages for login; Support for centralized portal
	Bandwidth limiting per user or per VLAN
	Whitelist and blacklist support
	Per site and per user access lists
	Per user accounting records by time used or data transferred
	Fixed-IP address spoofing
	AAA Security: RADIUS using EAP-MD5, PAP, CHAP, MSCHAP v2
Capacity: Up to 1,024 concurrent subscribers	

