



The Intelligent Wireless Networking Choice™



MGW-1250 Secure MultiService Gateway

Key Features:

- Turnkey remote office WLAN solution
- Central management, distributed control
- Embedded VPN termination/aggregation
- Multiservice integration/migration
- WLAN policies enforced at the edge
- Integrated Voice-over-WLAN services
- Open, standards-based network integration

Overview

The MGW-1250 is a centrally managed, secure Wireless LAN (WLAN) solution that integrates advanced Wi-Fi™ networking, VPN security, and IP network services into a single, easy to deploy platform.

A next generation WLAN solution that features a software selectable a/b/g radio, plenum-rated packaging, software upgrade to 802.11i AES encryption, and integrated Power over Ethernet support, the MGW-1250 is ideal for large, broadly distributed remote office networks and enterprise environments that require VPN security.

Based on a centrally managed, distributed intelligent AP architecture, the MGW-1250 eliminates the need for proprietary WLAN switches that add cost, create performance bottlenecks and introduce single-points-of-failure into the network. The result is a network that cost-effectively scales from small branch to large campus locations that require from one to thousand's of APs.

This turnkey remote office solution optimizes cost, reliability and manageability with a single box solution that is easily deployed and managed in remote branch locations. The embedded VPN client/server, supports terminate and then aggregation of downstream VPN client tunnels into a single, more easily managed VPN tunnel between the MGW-1250 and a centrally located corporate VPN server. An on-board encryption accelerator ensures the MGW-1250 delivers leadership performance. The MGW-1250 also provides layer 3 IP, DHCP, DNS, and NAT services low cost Internet access for remote site-to-corporate headquarters connectivity.

The MGW-1250 features the industry's first, fully multiservice Virtual Access Point (AP) capability. With Virtual AP, a single MGW-1250 supports as many as sixteen separate mobile applications or client device security profiles. It enables deployment of diverse services such as open guest access, secure corporate data and voice through a single, centrally managed WLAN infrastructure. It also facilitates smooth migration from WEP security to WPA and 802.11i. This industry-leading capability also enables lower cost, reduced complexity, while protecting the investment in earlier generation mobile technologies and applications.

Open, standards based integration with the existing Ethernet VLAN switches, security infrastructure and management systems already in use further protect existing investments. For example, network-wide security policies, defined and managed within a centralized AAA database, are leveraged for all users—wired and wireless. The solution also enables the scale and multi-vendor independence that comes with building on widely used industry standards.

The MGW-1250 is centrally managed by the Colubris Networks Management System (CNMS), an advanced WLAN management platform that provides automatic discovery and configuration of Colubris access devices, comprehensive AP and client device monitoring, powerful troubleshooting tools, and sophisticated rogue AP detection. This powerful systems solution enables customers to deploy large-scale Wi-Fi networks across widely distributed branch offices and concentrated campus environments.

Product Specifications

Model Number	MGW-1250 Secure WLAN Gateway • Power supply and antennas sold separately
Software Configurable Radio	Selectable for IEEE 802.11 a, b or g operation
Status LEDs	WLAN and LAN activity indicators; power indicator
Network Ports	(2) Auto-sensing 802.3 10/100 BASE-T Ethernet
Antenna Connectors	(2) Reverse polarity male SMA connectors with diversity
Power Inputs	DC Connector: 5 VDC (power supply sold separately); RJ45 Ethernet: 48 VDC +/- 10% (802.3af compliant)
Power Requirements	8 watts
Temperature Range	Operating: 0° C to 50° C, Storage: -40° C to 70° C
Humidity	5% to 95% typical (non-condensing)
Safety Compliance	IEC 60950, UL 1950 and 2043, CSA 22.2 No. 950-95, EN 60950
Overall Physical Dimensions	H: 47.752 mm, (1.880 in); L: 165.735 mm, (6.525 in); W: 162.560 mm, (6.400 in); Shipping Weight: 1.4 Kg, (3.0 lbs)

Networking Specifications

Networking	Q.03oS: 802.1p; 802.11e EDCA; SpectraLink SVP; Colubris service-aware QoS Bridging and Routing: IEEE 802.11d compliant bridging, Static routing, RIP v2 (RFC 1723), CIDR (RFC 1519) DHCP: Server (RFC 2131), Client, Relay DNS Relay; SMTP Redirection, Stateful Firewall Colubris Networks Adaptive NAT™, Network Address Translation (RFC 1631) Wireless Distribution System (WDS) Other: IEEE 802.1q VLAN tagging; ICMP (RFC 792); PPPoE Client (RFC 2516); Proxy Mobile IP
Network Management	Fully manageable with Colubris Networks Management System (CNMS) SNMP v1 and v2C: MIB-II with TRAPS, Colubris Networks extensions for user session control, RADIUS Authentication MIB (RFC 2618), RIP v2 extension MIB (RFC 1724) Embedded web GUI management tool with secure access (SSL and VPN) Packet capture and trace facility Scheduled configuration upgrades from central server; downloadable firmware
Network Security	IPsec: Main mode with pre-shared keys or X.509 certificates; Aggressive mode; Hash methods – MD-5, SHA-1; Encryption methods – 3DES, AES; XAUTH; MODECFG; Wi-Fi Protected Access (WPA), software upgradeable to 802.11i (AES) 802.1x using EAP-TLS, EAP-TTLS, EAP-SIM and PEAP Static and dynamic IEEE 802.11 WEP keys of 40 bits and 128 bits MAC address authentication RADIUS Client (RFC 2865 and 2866); RADIUS AAA using EAP-MD5, PAP, CHAP, MS-CHAP v2; RADIUS authentication traffic assignable to unique VLAN Hardware assisted VPN cryptography: 3DES, AES, MD-5, SHA-1; Capacity for up to 50 simultaneous user sessions Other: RSA SecurID support; X.509 certificate wizard
Layer 2 Tunneling	L2TP with MS-CHAP v1, v2, CHAP, PAP authentication PPTP with MS-CHAP v1 and v2 authentication

Radio Specifications

	When configured for IEEE 802.11a operation	When configured for IEEE 802.11b or IEEE 802.11g operation
Data Rates Supported	6, 9, 12, 18, 24, 36, 48, 54 Mbps	802.11b: 1, 2, 5.5, 11 Mbps 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps
Frequency Band	USA: 5.250-5.350 GHz, 5.725 – 5.825 GHz Canada: 5.150 – 5.350 GHz, 5.725 – 5.825 GHz Europe: 5.150 – 5.350 GHz, 5.47 – 5.725 GHz (varies by country) Japan: 5.150 – 5.250 GHz	North America: 2.412 – 2.462 GHz Europe: 2.412 – 2.472 GHz (varies by country) Japan: 2.412 – 2.484 GHz
Modulation	OFDM	802.11b: DSSS 802.11g: OFDM
Operating Channels/ non-overlapping	North America – 12, Europe: 19 (country specific), Japan – 4; 802.11h Dynamic Frequency Selection	Worldwide – 3 802.11h Dynamic Frequency Selection
Receive Sensitivity	-85 dBm @ 6 Mbps -65 dBm @ 54 Mbps	802.11g Operation: -85 dBm @ 6 Mbps; -65 dBm @ 54 Mbps 802.11b Operation: -86 dBm @ 11 Mbps
Transmit Power Settings (Maximum power varies as per country regulations)	17.7dBm +/- 2 @ 6-24 Mbps 12 dBm +/- 2 @ 54 Mbps 802.11h Transmit Power Control	802.11g Operation: 17 dBm +/- 2 @ 6-24 Mbps 11.5 dBm +/- 2 @ 54 Mbps 802.11b Operation: 18 dBm +/- 2 @ 1-11 Mbps 802.11h Transmit Power Control
Standards Compliance	Radio Approvals: Wi-Fi Alliance, FCC Part 15.401-15.407, RSS-210 (Canada), ETS 300 440 (Europe), ARIB STD-T71 (Japan) EMI and Susceptibility (Class B): FCC Part 15.107 and 15.109, ICES-003 (Canada), VCCI (Japan), EN 301.489-1 and -17 (Europe) Other: IEEE 802.11a, RSS-102	Radio Approvals: Wi-Fi Alliance, FCC Part 15.247, RSS-139-1, RSS-210 (Canada), ETS 300 440 (Europe), TELEC 33B (Japan), EMI and Susceptibility (Class B): FCC Part 15.107 and 15.109, ICES-003 (Canada), VCCI (Japan), EN 301.489-1 and -17 (Europe) Other: IEEE 802.11b/802.11g, RSS-102



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