

AeroExtend™

802.11g Outdoor WLAN Solution (WLG2000)

The AeroExtend™ WLG2000 is a highly versatile wireless LAN solution that provides both access point and bridge functions in one dual radio system. Specifically designed for outdoor deployments, WLG2000 enables the creation of Wi-Fi hotspots in urban public areas, multi-tenant (MTU) complexes, and metro ISP installations where industry leading data rates, security and ease of installation are demanded. The IP-67 enclosure is suitable for all-weather deployment conditions.

Fully compliant with IEEE 802.11g, WLG2000 performs up to 54Mbps with full backward compatibility support for 802.11b legacy clients. The innovative dual radio design supports operation as an access point, bridge, or combination AP and bridge, allowing the device to be deployed as a remote AP with wireless backhaul to a central AP or bridge, simplifying wireless ISP set up and reducing the cost of cable infrastructure.

Security includes full WPA support with separate RADIUS authentication for each SSID to enable multiple user group authentication policies. Ideal where hotspot deployments support multiple user groups from the same access point.

Features and Benefits

Dual Radios for Simultaneous AP and Bridge

Eliminates the need for dedicated devices to support bridge and access point functions. Built-in software selection assigns the device as an AP or bridge, with option to support simultaneous AP and bridge through dedicated radios for high bandwidth wireless backhaul network deployments.

54Mbps 802.11g Performance

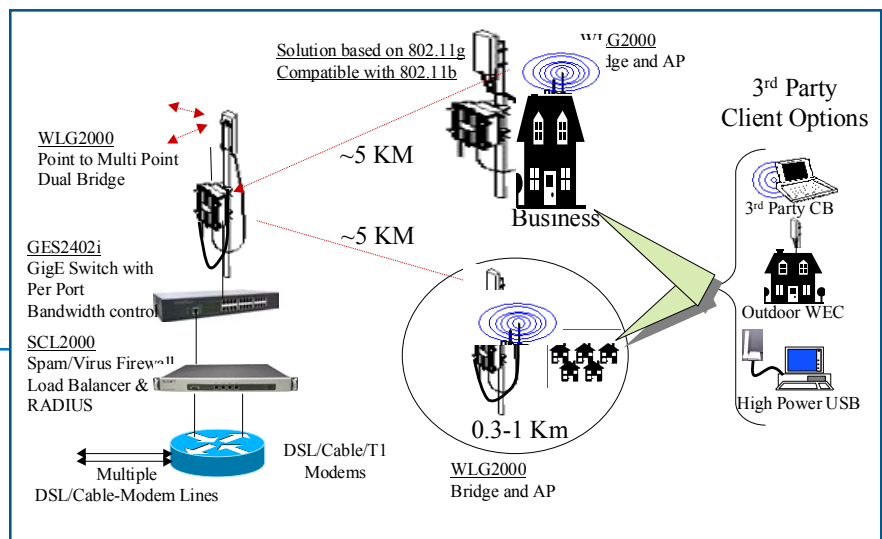
Supports standards based 802.11g at up to 54Mbps. Dual radio design allows dedicated channel bandwidth for high capacity wireless backhaul links without requiring a dedicated bridge device. Fully backwards compatible with 802.11b client users.

Scalable Enterprise Security

User authentication and encryption is locally or centrally controlled with various security levels as required by the application. Standards based WEP and WPA encryptions including AES support AP based client security, with 802.11i based EAP authentication via RADIUS for centralized user control.

High Gain Antenna Options

Available high gain antennas provide directional or omni-directional RF patterns to satisfy point to point or point to multi-point applications.



Specifications

Performance

Wi-Fi Compliant Radios	Two (100mW each)
Wireless Modes (per radio)	Access Point Bridge Repeater (when dual radios employed)
Data rates	802.11b 1, 2, 5.5, 11 Mbps 802.11g 6, 9, 12, 24, 36, 48, 54 Mbps

RF Characteristics

Transmit Power	802.11b 20dBm 802.11g 16-19dBm
Receive Sensitivity	802.11b -93dBm (at 1Mbps), -89dBm (at 11Mbps) 802.11g -90dBm (at 6Mbps), -72dBm (at 54Mbps)
Roaming	IAPP compliant

Security

Authentication	802.1x with RADIUS client EAP-MD5/TLS
Encryption	802.11i compliant WPA AES, DES, 3DES (IPSec/IKE accelerator engine) 64 / 128 Bit WEP SSL Web login
Filtering	MAC / IP filtering User ID / Password
Wireless network	SSID beacons disable

Management

User Interface	HTTP
Remote	SNMPv3 (MIB1&2), Telnet
Local	Console via RS-232

Physical

Enclosure	Die cast; IP67 outdoor rated (IP68 customization available)
Mounting	Mast mount; hardware kit included
Ports	
Ethernet (LAN/WAN)	Two ports: 10/100Base-Tx (auto-sensing, auto MDIX)
Antennas	Two ports: N(F) type; radio 1 and radio 2
Management	One port: RS-232
Temperature	
Operating	-30° to 75° C
Storage	-40° to 85°C
Humidity	10% to 80%, non-condensing
Power	Integrated Power-over-Ethernet support PoE injector included; 110-240 V AC input adapter
Standards Compliance	IEEE 802.11b/g, 802.11i, 802.1x, 802.3, 802.3u
Regulatory	FCC, CE
Warranty	One year, limited

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