

AeroExtend™ WLG2502

11a/b/g Outdoor Wireless Solution

AeroExtend now supports dual band 11a/b/g wireless in a dual radio platform. This highly versatile outdoor solution provides both access point and bridge functions in one device, supporting simultaneous wireless backhaul in P2P and PMP scenarios. Specifically designed for outdoor deployment in all weather conditions. AeroExtend is utilized by Service Providers and VARs for robust network trunking, public access in MTU properties, and corporate campus trunking applications.

The dual radio platform allows one radio to support dedicated client access, and the second radio to provide a dedicated backhaul link to a central base station. Two models are available; a base station master (WLG2502-M) and a remote point slave (WLG2502-S). SOHOfare also provides a selection of high gain antennas to optimize the RF performance of both the 2.4 and 5.8GHz radios.

Fully compliant with 802.11i WPA2 security, including AES encryption, 802.1x authentication, MAC filtering and RADIUS support. The compact device size simplifies installation with minimal visual intrusion, and is supported by Power over Ethernet and complete mounting hardware.



Features and Benefits

Dual Radio Design - Eliminates the need for dedicated devices to support bridging and access point functions, reducing device footprint and visual impact, and improving project ROI.

Dual Band 11a/b/g Support - Provides ubiquitous Wi-Fi access with an 11b/g radio, while the second 11a radio can provide 5.8GHz backhaul trunking.

Enterprise Security - The wireless network is protected with 802.11i based WPA/WPA2, with AES encryption and 802.1x authentication support. Secure management includes SSH/SSL and SNMPv3. Additional access control is supported with MAC based filtering and RADIUS client support.

Up to 108Mbps Backhaul Performance - Supports 54Mbps data rates with turbo mode at 108Mbps. Up to 12 mile link distances are achieved in line of site (free space) conditions for Point to Point bridging.

Ready to Install Kit - Includes 802.3af injector and outdoor rated Ethernet cabling, plus full mounting hardware for mast or wall mount installation.

High Gain Antenna Options - Available 2.4 and 5.8GHz antennas, LMR400 cables, and other RF accessories complete the outdoor solution.

Specifications

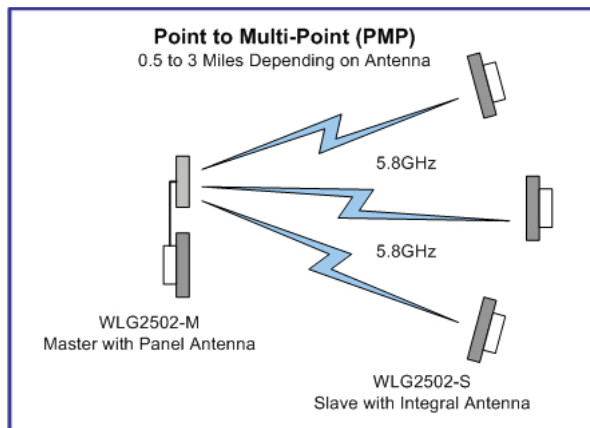
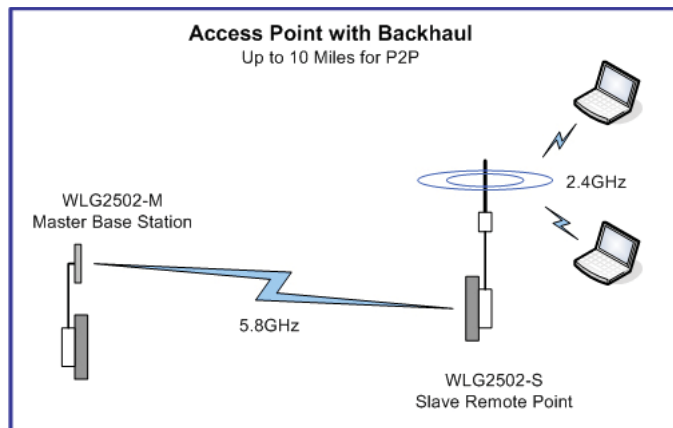
Models

WLG2502-M

Base Station Master: supports two external antennas (2.4 and 5.8 GHz).

WLG2502-S

Remote Point Slave: includes one integrated 5.8GHz antenna (17dB panel), and supports dual diversity 2.4GHz external antennas.



RF Characteristics

5.8GHz Radio:

Standard	IEEE 802.11a
Modulation	OFDM (BPSK, QPSK, 16/64-QAM)
Frequency	5.725-5.850 GHz
Data Rates	6, 9, 12, 18, 24, 36, 48, 54 Mbps 108 Mbps (turbo mode)
Output Power	100mW - adjustable to 5 levels
RF Sensitivity	-88dBm @ 6Mbps

2.4GHz Radio:

Standard	IEEE 802.11g, 802.11b
Modulation	OFDM (BPSK, QPSK, 16/64-QAM) DSSS (CCK, BPSK, QPSK)
Frequency	2.40-2.4835 GHz
Data Rates:	
11b	1, 2, 5.5, 11 Mbps
11g	6, 9, 12, 18, 24, 36, 48, 54 Mbps 108 Mbps (turbo mode)
Output Power	100mW - adjustable to 5 levels
RF Sensitivity	11b: -93dBm @ 1Mbps 11g: -88dBm @ 6Mbps

Network Support

Modes	Access Point Bridge - P2P, PMP WDS
WAN	DHCP client, PPPoE
VLAN Tagging	802.1q - up to 64 groups
Spanning Tree (STP)	802.1d

Security

Authentication	802.1x with RADIUS client EAP-MD5/TLS
Encryption	802.11i - WPA/WPA2 TKIP, AES, DES, 3DES 64 / 128 / 152 Bit WEP
Filtering	MAC authentication and filtering
Wireless Network Administration	SSID beacons disable SSL, SSH secure access

Management

Web Administration	HTTPS (SSL) CLI (SSH), Telnet
Remote	SNMPv1, v3
MIBs:	Standard Wireless Network
	1 & 2 802.11 Radius, Bridge

Physical

Ports:	Ethernet (PoE) Antennas RSSI (signal strength)	One: 10/100Base-Tx Two: N(Female) One: BNC
Enclosure		IP67 outdoor rated
Mounting		Mast and wall mount Hardware kit included
Dimensions		198 x 198 x 70 mm (7.8 x 7.8 x 2.8 inches)
Weight		1.6 Kg (3.53 Lbs)
Temperature	Operating Storage	-30° to 55° C -40° to 80° C
Power over Ethernet (PoE)		External injector included 110-240 VAC, 50/60 Hz 48VDC, 30W output
Grounding connection		Exterior lug screw
Regulatory		FCC, CE
Warranty		One year, limited
Optional antennas		Omni and Panel types for 2.4 and 5.8 GHz radios



Ethernet Port



Antenna Ports

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SOHware

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