

MWB-4G Marine Long Range Wireless & 4G Bridge with Integrated on-board Local Access Point (North American version, U.S.A., Canada, Mexico & Caribbean)



Features

The MWB4G features a high-power transmitter and high-sensitivity receiver for extended communications with Wi-Fi shore stations and 4G networks. The system also features an access point unit for local connection of on-board mobile wireless devices such as Laptops, iPads & iPhones. The system also has an Ethernet port for wired connection to a fixed on-board computer. The MWB4G is a stand-alone device on a network which includes its own internal DHCP server and a Site Survey utility for detecting Wi-Fi Shore Stations & 4G Networks. Supply includes an MWB4G unit which features a powerful 1000mW transmitter with a waterproof RJ-45 socket for connection with the supplied data/power cable to the MWB-AP unit. The MWB4G may be external bulkhead or similar mounted on commercial or fishing vessels or alternatively below deck for yacht or power boat installations where it will be exceptionally effective in locating and maintaining connection to Wi-Fi Shore Stations & 4G Networks from a vessel that's moving or at anchor. When out of range of a Wi-Fi Shore station the MWB4G will automatically detect and lock on to an alternative 4G network.

The MWB-AP is a dual band unit that allow the full advantages of 802.11ac technology speed, while maintaining compatibility with legacy devices in 5GHz 802.11a/n/ac and 2GHz 802.11 b/g/n modes. Both 2 & 5GHz frequencies and modes run simultaneously allowing simultaneous connection of legacy and a/n/ac mode devices.

MWB-4G

Processor	MIPS BE AR9342, 600MHz
Memory Information	64MB SDRAM
Networking Interface	1 X Waterproof 10/100 BASE-TX (Cat. 5, RJ-45) Ethernet PoE Interface
Antenna Sockets	2x N type female (Wi-Fi & 4G)
Wireless Approvals	CE, FCC (Part 15)
RoHS Compliance	YES
TX Channel Width Support	5MHz / 10MHz / 20MHz / 40MHz
Max Power Consumption	14.0 Watts
Power Method	Passive Power over Ethernet (pairs 4,5+; 7,8 return)
DC Voltage Rating	24V
Operating Temperature	-20C to +40C
Services	RouterOS, DHCP
Utilities	Site Survey, Scanner, Setup...
Security	WPA-PSK, WPA2 PSK, WPA EPA, WPA2 EAP, tkip & aes Ciphers
Wi-Fi Range	~6nm (ideal conditions, max power, low noise, no obstructions)
Wi-Fi Frequency	2.4 GHz
Wi-Fi Standard	802.11b/g/n
4G Range	~20nm (ideal conditions, max power, low noise, no obstructions)
4G Frequency	B2, B4, B5, B17
Dimensions	222mm x 146mm x 55mm
Weight	880g, excluding cables & antennas

MWB-AP

Networking Interface	2 X Waterproof 10/100 BASE-TX (Cat. 5, RJ-45) Ethernet PoE interface
Wireless Approvals	CE, FCC (Part 15)
RoHS Compliance	YES
Wireless chip set (1/2)	QCA9880
Frequency	5150MHz-5875MHz
Standard	802.11a/n/ac
Wireless chip set (2/2)	QCA9558
Frequency	2412-2484MHz
Standard	802.11b/g/n
Max Power Consumption	up to 5.0 Watts
Power Method	Passive Power over Ethernet (pairs 4,5+; 7,8 return)
DC Voltage Rating	24V
Operating Temperature	-20C to +40C
Services	RouterOS
Utilities	Webfig, Scanner, Security...
Security/ Cypher	WPA, WPA2/ AES, TKIP
Range	~50m (typical, low noise)
Dimensions	222mm x 146mm x 55mm
Weight	780g

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