

5.8 GHz Frequency  
Up to 300 Mbps Data Rate  
Watertight and Weatherproof  
Built-in Antenna

802.11n  
2x2 MIMO  
300 Mbps



## Features

- Up to 300 Mbps physical data rates and 200 Mbps of actual user throughput
- 2x2 MIMO
- VLAN Tagging
- 500mW (27 dBm) max average RF power adjustable in 1 db steps
- Standard 802.11 n protocol or SimStream TDMA protocol.
- Bandwidth Management Control
- Built in Spectrum Analyzer
- Dynamic Frequency Selection
- Automatic Channel Selection
- Automatic Transmit Power Control
- Channel Bandwidth: 40,20,10,5 Mhz
- 30 miles range possible.
- DHCP or Static IP Address
- Up to 4094 VLANs (Transparent, Trunk or Edge)
- Ethernet Protocol Filtering
- Static MAC Address Filtering
- TCP/UDP Port Filtering
- Intuitive, easy to use browser interface
- Browser, Telnet and SSH administration possible.
- SNMP

## SIMREX..Global wireless solutions. Wireless Outdoor Bridge

For more than 2 decades, SIMREX Corporation's wireless products have been providing wireless networking solutions with applications in SCADA, telemetry, telecommunications, mobile data and online transaction markets. SIMREX Corporation provides licensed and unlicensed frequency communications solutions worldwide.

## Product Overview

The DataMover WB Outdoor Wireless Multi-Client Bridge/Access Point/repeater operates seamlessly in the 5.8 GHz frequency spectrum supporting 1 Mbps - 300 Mbps wireless transmission.

The DataMover WB utilizes OFDM modulation that can significantly improve throughput in non line of sight conditions. The DataMover WB has high TX output power and high RX sensitivity. These features can extend range and reduce the expense of equipment in the infrastructure. The narrow antenna beamwidth of 10 degrees provides significant off axis interference rejection.

To protect the security of your data, all wireless transmissions may be encrypted through WPA/WPA2 or AES.

## Product Benefits

- Capable of handling heavy data payloads such as MPEG video streaming.
- High TX power and high RX sensitivity allow for minimum number of Access Point locations and cost savings.
- Transfer data between two buildings or multiple buildings.
- Administrators can remotely configure or manage the Access Point easily.
- Powerful data security ensures a secure network connection.
- Simultaneous wireless AP and Bridge mode for wireless repeater functionality.
- Weather tight IP67 enclosure for outdoor use.
- Built in high gain antenna saves on hardware cost and eliminates external RF cable.
- Easy to install.

\*\* All specifications are subject to change without notice.

## Available Configurations:

**DM WB-G58N-23** - Single radio, single ethernet port with integrated 23dBi panel antenna

**DM WB-G58N-23-E2** - Single radio, dual ethernet ports with integrated 23dBi panel antenna

**DM WB-G58N-X** - Single radio, single ethernet port with external antenna connectors (N Female)

**DM WB-G58N-X-E2** - Single radio, dual ethernet ports with external antenna connectors (N Female)

# DATAMOVER™ WB-G58N

## Specifications

<b>Power Requirements</b>	Active Ethernet POE (24 VDC) External: Autosense 100/240 VAC; 50/60 Hz	<b>Monitors</b>	Temperature, voltage and current
<b>Regulation</b>	FCC , Industry Canada, CE	<b>Security</b>	WPA, WPA2, AES-CCM & TKIP 802.1x, WEP Mac/RADIUS server authentication, EAP-TLS, EAP pass through
<b><u>RF Information</u></b>			
<b>Frequency Band</b>	5475-5725MHz(CE), 5745-5825(FCC)	<b>Firmware Upgrade</b>	Upgrade firmware Remotely
<b>Media Access Protocol</b>	Carrier Sense Multiple Access with Collision Avoidance (CSMA/CA) DFS compliant	<b>Physical</b>	23 dBi Antenna Version
<b>Modulation Technology</b>	Orthogonal Frequency Division Multiplexing (OFDM) with BPSK, QPSK, BPSK, QAM16, QAM64	<b>Mounting</b>	Articulating mast clamp included
<b>OFDM Modulation Rate:</b>	Up to 144 Mbps single antenna Up to 300 Mbps dual MIMO antennas	<b>Dimensions</b>	15.2" (L) x 15.2" (H) x 3.5" (D) 386 mm(L) x 386 mm(H) x 89mm (D)
<b>Receive Sensitivity (Typical)</b>	-97 dBm @ MCS0    -98 dBm @ MCS8 -96 dBm @ MCS1    -97 dBm @ MCS9 -93 dBm @ MCS2    -94 dBm @ MCS10 -91 dBm @ MSC3    -92 dBm @ MCS11 -87 dBm @ MCS4    -88 dBm @ MCS12 -84 dBm @ MCS5    -85 dBm @ MCS13 -78 dBm @ MCS6    -79 dBm @ MCS14 -75 dBm @ MCS7    -76 dBm @ MCS15	<b>Weight</b>	8 lbs (2.6 Kg)
<b><u>Environmental</u></b>			
<b>RF Output Power: (Typical)</b>	25 dBm @ MCS0    25 dBm @ MCS8 25 dBm @ MCS1    25 dBm @ MCS9 25 dBm @ MCS2    25 dBm @ MCS10 24 dBm @ MSC3    24 dBm @ MCS11 23 dBm @ MCS4    23 dBm @ MCS12 22 dBm @ MCS5    22 dBm @ MCS13 21 dBm @ MCS6    21 dBm @ MCS14 19 dBm @ MCS7    19 dBm @ MCS15	<b>Temperature Range</b>	Operating: -35°C to 75°C
<b>Antenna</b>	Integral dual feed (MIMO): 23.5 dBi panel (15" x 15"), 8 degree beamwidth, windload 1.6 sq.ft. or External Dish	<b>Humidity</b>	5%~95% Typical (non-condensing)
<b>Operation Mode</b>	Bridge or router	<b>Max Power Consumption</b>	4W idle/RX, 5.5W peak (TX)
<b>Interface</b>	Up to (2) Gigabit Ethernet Ports (RJ-45) (Optional 2nd Ethernet Port) -E2 MDI-X RJ45	<b>Power</b>	1A @ 24V POE (Included)
<b>Functions</b>	Spanning Tree protocol Firewall DHCP NAT Port Forwarding Layer 3 QoS SNMP Agent IPsec tunneling	<b>Applications</b>	
		<ul style="list-style-type: none"> <li>• Low latency pt- pt bridging</li> <li>• High traffic pt - mpt</li> <li>• Fiber/LAN extension</li> <li>• Control, SCADA, Video</li> <li>• Traffic, ITS</li> <li>• Rail, Mining</li> </ul>	

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