

## DataMover Wideband Integrated Data Link

5.8 GHz Frequency Range  
 Up to 866 Mbps Data Rate  
 20/40/80MHz channels  
 Watertight and Weatherproof  
 24VDC and 48VDC (37-57V)  
 versions available  
 Integrated Antenna or Optional  
 External Antenna

802.11/ac  
 2x2 MIMO  
 866 Mbps



### Features

- Up to 866 Mbps over the air data rates
- Point to point or point to multipoint topology
- 2x2 MIMO
- 24VDC and 48VDC (37-57V) Versions Available
- VLAN Tagging
- 1000 mW (30 dBm) max RF power adjustable in 1 db steps
- Standard 802.11/ac protocol or SimStream TDMA protocol.
- OFDM for Non Line of Sight
- Adaptive Modulation
- Bandwidth Management Control
- Built in Spectrum Analyzer and benchmarking tools with report generator
- Dynamic Frequency Selection
- Automatic Channel Selection
- Automatic Transmit Power Control
- Channel Bandwidth: 80,40,20 Mhz
- 30 miles range possible.
- Intuitive, easy to use configuration software
- 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 and Traffic/ITS 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 unlicensed frequency spectrum supporting 1 Mbps - 866 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 the panel antenna provides significant off-axis interference rejection.

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

### Product Benefits

- Capable of handling heavy data payloads such as multiple 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 locations or multiple locations.
- Administrators can remotely configure or manage the all nodes easily.
- Powerful data encryption and authentication ensures a secure network connection.
- Weather tight IP67 enclosure for outdoor use.
- Integrated antenna reduces cost and eliminates external RF cable.
- Easy to install.

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

### Available Configurations:

Standard model is 24VDC. Add "-48V" for 37-57VDC power input version  
 (i.e. DM WB-G58AC-23M-48V)

- DM WB-G58AC-20M** - Single radio, single ethernet port with integrated 20 dBi panel antenna
- DM WB-G58AC-23M** - Single radio, single ethernet port with integrated 23 dBi panel antenna
- DM WB-G58AC-X** - Single radio, single ethernet port with external antenna connectors (N Female)
- DM WB-G58AC-X-R2** -Dual radios, single ethernet port with external antenna connectors (N Female)
- DM WB-G58/58AC-20M-A2** - Dual radios, single ethernet port with dual 20 dBi panel antennas
- DM WB-G58/58AC-23M-A2** - Dual radios, single ethernet port with dual 23 dBi panel antennas
- DM WB-G58AC-20M-A2** - Single radio, single ethernet port with dual 20 dBi panel antennas
- DM WB-G58AC-23M-A2** - Single radio, single ethernet port with dual 23 dBi panel antennas

# DATAMOVER™ WB-G58AC

## Specifications

<b>Power Requirements</b>	Active Ethernet POE (24 VDC or 48 VDC (37-57VDC) External: Autosense 100/240 VAC; 50/60 Hz	<b>Interface</b>	Gigabit Ethernet Port (RJ-45)
<b>Regulation</b>	FCC , Industry Canada	<b>Functions</b>	STP, RSTP, VLAN Firewall DHCP NAT Port Forwarding Layer 3 QoS SNMP Agent IPsec tunneling
<b>RF Information</b>			
<b>Frequency Band</b>	5180-5825 MHz	<b>Monitors</b>	Temperature and voltage
<b>Media Access Protocol</b>	Carrier Sense Multiple Access with Collision Avoidance (CSMA/CA) DFS compliant	<b>Security</b>	WPA, WPA2, AES-CCM & TKIP 802.1x, WEP Mac/RADIUS server authentication, EAP-TLS, EAP pass through
<b>Modulation Technology</b>	Orthogonal Frequency Division Multiplexing (OFDM) with BPSK, QPSK, BPSK,QAM16, QAM64, QAM 256	<b>Firmware Upgrade</b>	Upgrade Firmware Remotely
<b>OFDM Modulation Rate:</b>	Up to 866 Mbps dual MIMO antennas	<b>Mounting</b>	Articulating mast clamp included
<b>RF Specifications</b>			
	TX	RX	
TX/RX at MCS0	30dBm	-98dBm	20 dBi 10.5" (L) x 10.5" (H) x 3.5" (D) 267 mm(L) x 267 mm(H) x 89mm (D) Weight 6 lbs (2.7 Kg)
TX/RX at MCS7	27dBm	-77dBm	
TX/RX at 6Mbit	31dBm	-98dBm	
TX/RX at 54Mbit	27dBm	-81 dBm	
RX sensitivity can be increased a further 3 to 6 dB through user modulation settings.			
<b>Antenna</b>	Integral dual feed (MIMO):		
23 dBi panel	8 degree beamwidth, windload 1.6 sq ft.		
20 dBi panel	17 degree beamwidth, windload 0.8 sq.ft.		
or External Dish or third party antenna.			
<b>Environmental</b>			
<b>Temperature Range</b>	Operating: -40°C to 75°C		
<b>Humidity</b>	5%~95% Typical (non-condensing)		
<b>Max Power Consumption</b>	5W idle/RX, 12W peak (TX)		
<b>Power</b>	POE Injector for respective voltage available		
<b>Applications</b>			
<ul style="list-style-type: none"> <li>• Traffic, ITS</li> <li>• Low latency, High traffic</li> <li>• p-p, p-mpt topologies</li> <li>• Bridging</li> <li>• Fiber/LAN extension</li> <li>• Control, SCADA, Video</li> <li>• Rail, Mining</li> </ul>			

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SIMREX Datamover products are manufactured under a strict quality control system and are 100% tested. Simrex reserves the right to make changes to specifications of products described in this data sheet at any time without notice and without obligation to notify any person of such changes.

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