

DataMover Wideband Integrated Data Link

5.8 GHz Frequency Range
Up to 866 Mbps Data Rate
20/40/80MHz channels
Watertight and Weatherproof
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
- 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:

- 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

Power Requirements	Active Ethernet POE (24 VDC) External: Autosense 100/240 VAC; 50/60 Hz	Interface	Gigabit Ethernet Port (RJ-45)															
Regulation	FCC , Industry Canada	Functions	STP, RSTP, VLAN Firewall DHCP NAT Port Forwarding Layer 3 QoS SNMP Agent IPsec tunneling															
RF Information		Monitors	Temperature and voltage															
Frequency Band	5180-5825 MHz	Security	WPA, WPA2, AES-CCM & TKIP 802.1x, WEP Mac/RADIUS server authentication, EAP-TLS, EAP pass through															
Media Access Protocol	Carrier Sense Multiple Access with Collision Avoidance (CSMA/CA) DFS compliant	Firmware Upgrade	Upgrade Firmware Remotely															
Modulation Technology	Orthogonal Frequency Division Multiplexing (OFDM) with BPSK, QPSK, BPSK, QAM16, QAM64, QAM 256	Mounting	Articulating mast clamp included															
OFDM Modulation Rate:	Up to 866 Mbps dual MIMO antennas	Physical	Integrated Antenna Version															
RF Specifications		Dimensions	23 dBi 15.2" (L) x 15.2" (H) x 3.5" (D) 386 mm(L) x 386 mm(H) x 89mm (D) Weight 8 lbs (3.6 Kg)															
	<table><thead><tr><th></th><th>TX</th><th>RX</th></tr></thead><tbody><tr><td>TX/RX at MCS0</td><td>30dBm</td><td>-98dBm</td></tr><tr><td>TX/RX at MCS7</td><td>27dBm</td><td>-77dBm</td></tr><tr><td>TX/RX at 6Mbit</td><td>31dBm</td><td>-98dBm</td></tr><tr><td>TX/RX at 54Mbit</td><td>27dBm</td><td>-81dBm</td></tr></tbody></table>		TX	RX	TX/RX at MCS0	30dBm	-98dBm	TX/RX at MCS7	27dBm	-77dBm	TX/RX at 6Mbit	31dBm	-98dBm	TX/RX at 54Mbit	27dBm	-81dBm		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																
TX/RX at MCS0	30dBm	-98dBm																
TX/RX at MCS7	27dBm	-77dBm																
TX/RX at 6Mbit	31dBm	-98dBm																
TX/RX at 54Mbit	27dBm	-81dBm																
	RX sensitivity can be increased a further 3 to 6 dB through user modulation settings.																	
Antenna	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.																		
		Environmental																
		Temperature Range	Operating: -40°C to 75°C															
		Humidity	5%~95% Typical (non-condensing)															
		Max Power Consumption	5W idle/RX, 12W peak (TX)															
		Power	1A / 24V POE (Included)															
		Applications	<ul style="list-style-type: none">Traffic, ITSLow latency, High trafficp-p, p-mpt topologiesBridgingFiber/LAN extensionControl, SCADA, VideoRail, Mining															

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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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