5.8 GHz Frequency
Up to 300 Mbps Data Rate
5/10/20/40 MHz Channels
Watertight and Weatherproof
24VDC and 48VDC (37-57V)
versions available
Integrated Antenna or Optional
External Antenna

802.11n
2x2 MIMO
300 Mbps

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 unlicenced 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 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 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-G58NL-23M-48V)

DM WB-G58NL-20M - Single radio, single ethernet port with integrated 20 dBi panel antenna
DM WB-G58NL-23M - Single radio, single ethernet port with integrated 23 dBi panel antenna
DM WB-G58NL-X - Single radio, single ethernet port with external antenna connectors (N Female)
DM WB-G58NL-X-R2 -Dual radios, single ethernet port with external antenna connectors (N Female)
DM WB-G58NL-20M-A2R2 - Dual radios, single ethernet port with dual 20 dBi panel antennas
DM WB-G58NL-23M-A2R2 - Dual radios, single ethernet port with dual 23 dBi panel antennas
DM WB-G58NL-20M-A2 - Single radio, single ethernet port with dual 20 dBi panel antennas
DM WB-G58NL-23M-A2 - Single radio, single ethernet port with dual 23 dBi panel antennas

Features

- Up to 300 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 n protocol or SimStream TDMA protocol.
- 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: 40,20,10,5 Mhz
- 30 miles range possible.
- Intuitive, easy to use configuration software
- Telnet and SSH administration possible.
- SNMP

DATAMOVER™ WB-G58NL
Specifications

Power Requirements	Active Ethernet POE (24 VDC or 48 VDC (37-57VDC) External: Autosense 100/240 VAC; 50/60 Hz
Regulation	FCC , Industry Canada

RF Information

Frequency Band	5180-5825 MHz
Media Access Protocol	Carrier Sense Multiple Access with Collision Avoidance (CSMA/CA) DFS compliant
Modulation Technology	Orthogonal Frequency Division Multiplexing (OFDM) with BPSK, QPSK, BPSK,QAM16, QAM64
OFDM Modulation Rate:	Up to 300 Mbps dual MIMO antennas

RF Specifications

	TX	RX
TX/RX at MCS0	30dBm	-96dBm
TX/RX at MCS7	24dBm	-78dBm
TX/RX at 6Mbit	30dBm	-96dBm
TX/RX at 54Mbit	27dBm	-80dBm

RX sensitivity can be increased a further 3 to 6 dB through user modulation settings.

Antenna	Integral dual feed (MIMO):
23.5 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.

Interface	Gigabit Ethernet Port (RJ-45)
Functions	STP, RSTP, VLAN Firewall DHCP NAT Port Forwarding Layer 3 QoS SNMP Agent IPsec tunneling
Monitors	Temperature and voltage
Security	WPA, WPA2, AES-CCM & TKIP 802.1x, WEP Mac/RADIUS server authentication, EAP-TLS, EAP pass through
Firmware Upgrade	Upgrade firmware Remotely
Mounting	Articulating mast clamp included
Physical	Integrated Antenna Version
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) 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)

Environmental

Temperature Range	Operating: -40°C to 75°C
Humidity	5%~95% Typical (non-condensing)
Max Power Consumption	4W idle/RX, 14W peak (TX)
Power	POE Injector for respective voltage available

Applications

- Traffic, ITS
- Low latency, High traffic
- p-p, p-mpt topologies
- Bridging
- Fiber/LAN extension
- Control, SCADA,Video
- Rail, Mining

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