

5.8 GHz Frequency  
Up to 54 Mbps Data Rate  
Watertight and Weatherproof  
Built-in Antenna

# WIDEBAND wireless PERFORMANCE



## Features

- High Speed Data Rate - Up to 54Mbps
- CPE/Bridge or AP/Repeater
- Wall/mast clamp with pan/tilt
- PoE built-in for single cable installation
- Integral 23 dBi Panel Antenna

## Capability

- OFDM modulation improves non line-of-sight performance
- High TX Output Power and High RX Sensitivity
- Point-to-point, Point-to-multipoint Wireless Connectivity

## Management

- Browser or SSH Remote Configuration

## Functions

- NAT/DHCP support
- Repeater mode.
- Watertight and Weatherproof (IP67)
- MAC address filtering (AP Mode)  
IP/MAC tunneling
- Browser or SSH Remote Configuration

## 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 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 - 54 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 personal and enterprise (with dynamic key from remote RADIUS server) with TKIP, AES (CCMP). The MAC addresses filter and IP/MAC tunneling let you select exactly which remote stations should have access to your network.

## 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.
- For mobile applications, increased operation distance and reduction of roaming hand-offs between APs for a more stable wireless connection.
- 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.
- MAC filter enhances security by insuring the identity of users connected to the client bridge.
- 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.

\* Wireless signal rate based on over the air rates. Typical aggregate throughput is 50% to 60% of the over the air rate. Actual throughput may vary. Network conditions and environmental factors lower actual throughput rate.

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

# DATAMOVER™ WB-K58B

## Specifications

<b>Data Rates</b>	6, 9, 12, 18, 24, 36,48,54 Mbps	<b>Firmware Upgrade</b>	Upgrade firmware via webbrowser
<b>Power Requirements</b>	Active Ethernet POE (18 VDC) External: Autosense 100/240 VAC; 50/60 Hz	<b>Mangement</b>	SSH, SNMP, FTP, IP/MAC discovery (CDP)
<b>Regulation</b>	FCC Part 15.247, IC RS210	<b>IT/ Network Features</b>	802.1d (STP, Spanning Tree Protocol), NTP, (Network time Protocol) , QOS, VPN, VLAN, IPsec, DHCP client/server, NAT, firewall, filtering, routing, WMM (per 802.11e)
<b>Frequency Band</b>	5.20 - 5.825 GHz	<b>Diagnostic Features</b>	BW, test, Registered Client list, Antenna alignment
<b>Channels size</b>	5,10,20,40 MHz	<b>Typical Performance Requirements</b>	<ul style="list-style-type: none"> <li>• Provide a wireless path connection that has a minimum 20dBm fade margin below the allowable receive sensitivity of the wireless radio.</li> </ul>
<b>Radio Type</b>	OFDM	<b>Physical</b>	23 dBi Integrated Antenna Version
<b>Media Access Protocol</b>	Carrier Sense Multiple Access with Collision Avoidance (CSMA/CA)	<b>Dimensions</b>	13.00" (L) x 13.00" (H) x 3.4" (D) 330 mm(L) x 330 mm(H) x 85mm (D)
<b>Wireless Protocol</b>	802.11/a/b/g/n as standardized/regulated for band. (802.11/a for 5800 MHz 802.11/n optional), SimStream TDMA available on all bands DFS (Dynamic Frequency Selection) for 5200 to 5825 MHz band Multiple SSIDs	<b>Weight</b>	6.25 lbs (2.8 Kg) including mounting bracket
<b>Modulation Technology</b>	Orthogonal Frequency Division Multiplexing (OFDM) DBPSK, QPSK, BPSK,16-QAM, 64-QAM	<b>Temperature Range</b>	Operating: -40°C to 75°C
<b>Receive Sensitivity (Typical)</b>	-94 dBm @ 6 Mbps (OFDM) -86 dBm @ 24 Mbps (OFDM) -74 dBm @ 54 Mbps (OFDM)	<b>Humidity</b>	5%~95% Typical (non-condensing)
<b>RF Output Power</b>	28 dBm (600 mW) @ 6,9,12,18 & 24 Mbps 26 dBm @ 36 Mbps 24 dBm @ 48 Mbps 23 dBm @ 54Mbps	<b>Wind Survivability</b>	125 MPH (201 KM/H)
<b>Antenna</b>	23 dbi Internal Flat Panel Directional Antenna	<b>Available Models</b>	<ul style="list-style-type: none"> <li>• 23 dBi Integral Flat Panel Antenna (DM WB-K58B-23)</li> <li>• External Antenna (Dish, Sector, etc.) (DM WB-K58B-X)</li> <li>• Shelf Mount (DM WB-K58B-IDU)</li> <li>• Dual Ethernet Ports (DM WB-K58B-x-E2)</li> <li>• Dual Antennas (DM WB-K58B-x-A2)</li> </ul>
<b>RF connector</b>	N type on DM WB-K58B-X version	<b>Note:</b>	Some variants can be combined.
<b>Operation Mode</b>	Point-to-Point/ Point-to-Multipoint Bridge/ AP/ Client Bridge/Repeater		
<b>Interface</b>	1x 10/100 Mbps RJ-45 LAN Port		
<b>Security</b>	WPA, WPA2, AES-CCM & TKIP 802.1x, WEP Mac/RADIUS server authentication, EAP-TLS, EAP pass through		

\*All specifications are subject to change by Simrex without prior notice\*

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