

900 MHz 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 12.5 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 900 MHz 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.

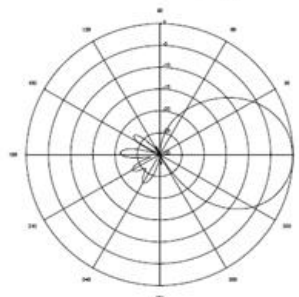
\*\* All specifications are subject to change without notice.

# DATAMOVER™ WB-K90B-12.5

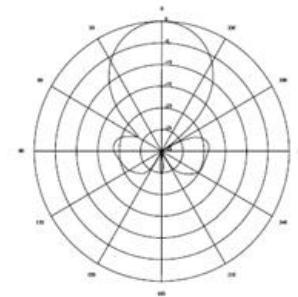
## Specifications

<b>Data Rates</b>	DSSS - 1, 2, 5.5, 11 Mbps OFDM - 6, 9, 12, 24, 36,48,54 Mbps	<b>Power Consumption</b>	2.7 - 4.9 Watts
<b>Power Requirements</b>	Active Ethernet POE (18 VDC) External: Autosense 100/240 VAC; 50/60 Hz	<b>Management</b>	
<b>Regulation</b>	FCC Part 15.247 IC RS210	<b>Configuration</b>	HTTPS, SSH, SFTP, SNMPV1/2/3
<b>RF Information</b>		<b>Firmware Upgrade</b>	Upgrade firmware via webbrowser
<b>Frequency Band</b>	902 - 928 MHz	<b>Physical</b>	12.5 dBi Antenna Version
<b>Channel Support</b>	907/ 917 - 5/10 MHz 912/ 922 - 5/10/20 MHz	<b>Dimensions</b>	15.4" (L) x 15.4" (H) x 3.4" (D) 391 mm(L) x 391 mm(H) x 85mm (D)
<b>Radio Type</b>	DSSS / OFDM	<b>Weight</b>	7 lbs (15 Kg)
<b>Media Access Protocol</b>	Carrier Sense Multiple Access with Collision Avoidance (CSMA/CA)	<b>Environmental</b>	
<b>Modulation Technology</b>	Orthogonal Frequency Division Multiplexing (OFDM) DBPSK, QPSK, BPSK,16-QAM, 64-QAM	<b>Temperature Range</b>	Operating: -30°C to 70°C Storage: -40°Cto 80°C
<b>Receive Sensitivity (Typical)</b>	-95 dBm @ 1 Mbps (DSSS) -93 dBm @ 2 Mbps (DSSS) -91 dBm @ 5.5 Mbps (DSSS) -90 dBm @ 11 Mbps (DSSS) -92 dBm @ 6 Mbps (OFDM) -91 dBm @ 9 Mbps, 12 Mbps (OFDM) -88 dBm @ 18 Mbps (OFDM) -84 dBm @ 24 Mbps (OFDM) -81 dBm @ 36 Mbps (OFDM) -75 dBm @ 48 Mbps (OFDM) -72 dBm @ 54 Mbps (OFDM)	<b>Humidity</b>	5%~95% Typical (non-condensing)
<b>RF Output Power:</b>	28 dBm @ 1,2,5.5,11,6,9,12 & 18 Mbps 26 dBm @ 36 Mbps 25 dBm @ 48 Mbps 24 dBm @ 54Mbps		
<b>Antenna</b>	12.5 dbi Internal Flat Panel Directional Antenna		
<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>Supported OS</b>	WIndows 98SE, ME, 2000, XP, Linux		
<b>Security</b>	WPA2/WPA / Pre Share KEY AES-CCM & TKIPEncryption 802.1X 64/128/152 bit WEP MAC address filtering Hide SSID in beacons DHCP Client/Server VLAN tunneling support		

RF Patterns  
Vertical Cut, typ.



RF Patterns  
Horizontal Cut, typ.



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