

## DataMover Wideband Integrated Data Link

4.9 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 19 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 4.9 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-K49B

## Specifications

**Data Rates** 6, 9, 12, 18, 24, 36,48,54 Mbps

**Power Requirements** Active Ethernet POE (18 VDC)  
External: Autosense 100/240 VAC; 50/60 Hz

**Regulation** FCC Part 90Y, IC

### RF Information

**Frequency Band** 4.94 - 4.99 GHz

**Radio Type** OFDM

**Media Access Protocol** Carrier Sense Multiple  
Access with Collision  
Avoidance (CSMA/CA)

**Modulation Technology** Orthogonal Frequency  
Division Multiplexing (OFDM)  
DBPSK, QPSK, BPSK, 16-QAM, 64-QAM

**Receive Sensitivity (Typical)**  
-94 dBm @ 6 Mbps (OFDM)  
-93 dBm @ 9 Mbps (OFDM)  
-91 dBm @ 12 Mbps (OFDM)  
-90 dBm @ 18 Mbps (OFDM)  
-86 dBm @ 24 Mbps (OFDM)  
-83 dBm @ 36 Mbps (OFDM)  
-77 dBm @ 48 Mbps (OFDM)  
-74 dBm @ 54 Mbps (OFDM)

**RF Output Power:**  
26 dBm @ 6,9,12,18 & 24 Mbps  
24 dBm @ 36 Mbps  
23 dBm @ 48 Mbps  
22 dBm @ 54Mbps

**Antenna** 19 dBi Integral Flat Panel  
Directional Antenna (Standard Model)

**Operation Mode** Point-to-Point/ Point-to-Multipoint Bridge/  
AP/ Client Bridge/Repeater

**Interface** 1x 10/100 Mbps RJ-45 LAN Port

**Security** WPA, WPA2, AES-CCM & TKIP  
802.1x, WEP Mac/RADIUS server  
authentication, EAP-TLS, EAP pass through

**Firmware Upgrade** Upgrade firmware via web browser

### Physical

**Dimensions** 13.00" (L) x 13.00" (H) x 3.4" (D)  
330 mm(L) x 330 mm(H) x 85mm (D)

**Weight** 6.25 lbs (2.8 Kg) including mounting  
bracket

**Note:** Dimensions and weight for standard model only.

### Environmental

**Temperature Range** Operating: -35°C to 75°C

**Humidity** 5%~95% Typical  
(non-condensing)

### Available Models

- 19 dBi Integral Flat Panel Antenna (**DM WB-K49B-19**)
- 23 dBi Integral Flat Panel Antenna (**DM WB-K49B-23**)
- External Antenna (Dish, Sector, etc.) (**DM WB-K49B-X**)
- Shelf Mount (**DM WB-K49B-IDU**)
- Dual Ethernet Ports (**DM WB-K49B-x-E2**)
- Dual Antennas (**DM WB-K49B-x-A2**)

**Note:** Some variants can be combined.

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

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