

# OWBS

## Product Datasheet

outdoor wireless bridge system



The OWBS is a high power 25dBm (316mW) outdoor wireless bridge system operating in the 2.4GHz or 5GHz unlicensed frequency spectrum providing real world throughput up to 100 Mb/sec. It complies with the 802.11g/n or 802.11a/n standards to insure interoperability. The OWBS creates a transparent wireless bridge between two networks up to 3 miles apart with good line of sight. It supports VOIP, VPN, multiple MAC addresses and DHCP across the wireless link. It is the perfect plug and play solution for connecting the networks in two or more buildings, internet access sharing, remote video surveillance or remote network access. Multiple units can be connected in a mesh configuration to allow interconnecting more than two sites.



With its password verification, MAC address authentication, SSID suppression and advanced WPA encryption, the system provides the best available wireless data security.

Installation is a snap because of the plug and play features which have been built into the system. Just install the antennas and plug in the power inserters. The units will automatically find their peer and create a secure wireless network link. If changes to the pre-configured settings are desired, they can be easily done thru the built-in web interface from any point on either side of the network. There are no drivers or software that needs to be loaded to the computer.

The OWBS comes complete with all the electronics that are needed for a point to point wireless network bridge installation; including 2 powerful 14dBi 802.11g/n or 16dBi 802.11a/n MIMO antennas with built-in high power electronics, Bracket Kits which accommodate pole or wall mounting, Surge Protected Cat5e rated 24V PoE (Power Over Ethernet) power inserters and 75' shielded outdoor rated CAT5 cable assemblies.

FEATURES	BENEFITS
High Power Electronics and powerful antenna	Operation up to 3 miles with good line of sight and up to 100 Mbps real world throughput
True Plug and Play	No driver needed. Pre-configured at the factory for automatic peer to peer communications
64 and 128bit WEP, WPA and WPA2 Encryption	Most powerful data security available
Web-based configuration	Remotely change device configuration or update firmware from anywhere on the network
Power over Ethernet	Antennas can be mounted up to 100meter (300') from the power inserter
Layer 2 Transparent Bridge	Appears to network devices as if an Ethernet cable has been installed between the 2 network nodes. Passes DHCP, VOIP Packets, VLAN Packets and supports multiple MAC addresses

### Data Rates

2.4GHz 802.11n: up to 300Mbps  
2.4 GHz 802.11g: up to 54Mbps  
5GHz 802.11n: up to 300Mbps  
5GHz 802.11a: up to 54Mbps

### Standards

IEEE802.11g/n, 802.11a/n, 802.3, 802.3u

### Power Requirements

Power Supply: 100-240VAC 50/60Hz  
12VDC to 24VDC Passive PoE  
Average Power Consumption: 4W

### Regulatory Certifications

FCC Part 15 / UL

### RF Frequency Band

2400 ~ 2497 MHz  
5100 ~ 5850 MHz

### Modulation Technology

802.11n: TDMA  
802.11g: OFDM  
802.11a: OFDM

### Receive Sensitivity (Typical)

802.11n: -90 dBm  
802.11g: -75 dBm  
802.11a: -75 dBm

### Transmit Power

25dBm 316mW

### DC Connector Power Out

Input Voltage @ Max 10W

### Antenna

2.4GHz 14dBi MIMO Panel Antenna, 35deg Beamwidth, >20dB front to back  
5GHz 16dBi MIMO Panel Antenna, 27deg Beamwidth, >22dB front to back

### Operation Mode – Bridge or Router

Point to Point Bridge, Access Point, Access Point WDS, Client, Client WDS

### Interface

10/100Mbps RJ-45 LAN Port x 2

### IP Configuration

Static or Auto configuration using DHCP Client

### Security

MAC Address Filtering, WEP/WPA encryption, Hide SSID in beacons, Layer 2 isolation

### Management Configuration

Web-based configuration (HTTP)  
Console configuration (SSH)  
SNMP Protocol

### Firmware Upgrade

Upgrade firmware via web browser

### Antenna Physical Dimensions (L x W x D)

314mm x 187mm x 65mm  
12.4" x 7.3" x 2.5"

### Complete System Weight

3 kg (7 lbs )

### Operating Temperature

-30°C to +70°C (-22°F to 158°F)

### Warranty: 2 Year



OWBS Antenna Patterns

