



# Product Datasheet

## EZ-BRIDGE®LT-HD



The EZ-Bridge®LT-HD is a high power 250mW outdoor wireless bridge system with built in Ethernet and AC Power surge protection for ultra reliable operation in harsh environments. The complete system comes with two 75' Shielded outdoor rated Cat5 cable assemblies to protect against EMI caused by lightning.

The system operates in the 2.4GHz or 5GHz unlicensed frequency spectrum providing real world thruput up to 20 Mb/sec. It complies with the 802.11bg or 802.11a standards to insure interoperability. The EZ-Bridge®LT-HD creates a transparent wireless bridge between two networks up to 3 miles apart with good line of sight. It supports 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 EZ-BridgeLT®-HD 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 supplies. 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 EZ-Bridge®LT-HD comes complete with all the electronics that are needed for a point to point wireless network bridge installation; including 2 powerful 14dBi 802.11bg or 19dBi 802.11a antennas with built-in high power electronics, Bracket Kits which accommodate pole or wall mounting, Surge Protected 18V 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 15 Mbps; 20Mbps for 5GHz Version
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 source
Transparent Bridge	Appears to network devices as if an Ethernet cable has been installed between the 2 network nodes. Passes DHCP and supports multiple MAC addresses

# TECHNICAL SPECIFICATIONS

## Data Rates

2.4 GHz 802.11g: 54/48/36/24/12/9/6 Mbps  
2.4GHz 802.11b: 11/5.5/2/1 Mbps  
5GHz 802.11a: 54/48/36/24/12/9/6 Mbps

## Standards

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

## Power Requirements

Power Supply: 100-240VAC 50/60Hz  
EZ-Bridge®: 12VDC to 15VDC  
Ave Power Consumption: 5W

## Regulatory Certifications

FCC Part 15 / UL

## RF Frequency Band

2400 ~ 2497 MHz  
5100 ~ 5850 MHz

## Media Access Protocol

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

## Modulation Technology

Direct Sequence Spread Spectrum (DSSS)  
802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK)  
802.11b: DSSS (CCK, DQPSK, DBPSK)  
802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK)

## Operating Channels

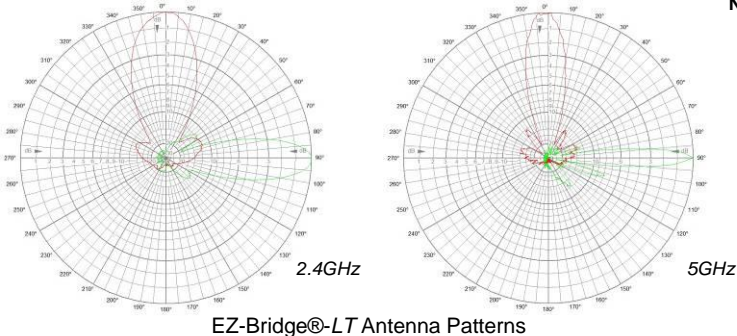
2.4GHz 11 for North America, 14 for Japan  
5GHz 35 channels supported at 20MHz width

## Receive Sensitivity (Typical)

802.11g: -73 +2dBm @ 54Mbps  
802.11b: -84 +2dBm @ 11Mbps  
802.11a: -74 +2dBm @ 54Mbps

## Available Transmit Power

802.11g: 50, 100mW  
802.11b: 100, 150, 200, 250mW  
802.11a: 50, 100, 150, 200, 250mW



EZ-Bridge®-LT Antenna Patterns

## Antenna

2.4GHz 14dBi Panel Antenna, 35deg AZ and 25deg EL Beamwidth, >20dB front to back  
5GHz 19dBi Panel Antenna, 21deg AZ and 10deg EL Beamwidth, >23dB front to back

## Network Topology

Ad-Hoc, Infrastructure

## Operation Mode

Point to Point Bridge, Access Point, Client; Bridge or Router

## Interface

10/100Mbps RJ-45 LAN Port

## IP Auto Configuration

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

5.4 kg (12 lbs)

## Temperature Range

Operating: -35°C to 60°C (-31°F to 140°F)  
Storage: -40°C to 80°C (-40°F to 176°F)

## Notes:

- All shipments F.O.B. Bluffdale, UT 84065
- EZ-Bridge® carries a 1 year warranty



EZ-Bridge®-LT tool-less installation