The EZ-Bridge® Ultra5 is a high capacity 100Mbps and high power 250mW outdoor wireless bridge system operating in the 5GHz unlicensed spectrum. The complete system allows for ultra high bandwidth connections between 2 buildings up to 4 miles or more apart with good line of sight.

The EZ-Bridge® Ultra5 creates a transparent bridge between 2 sides and passes all network traffic including VPN and DHCP. You can think of it like connecting a CAT5 Ethernet cable between the 2 points.

It is the perfect high capacity 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-Bridge® Ultra5 units can be connected in a mesh configuration to allow interconnecting more than two sites.

The system supports 802.11n TDMA and 802.11a OFDM for backward compatibility. The advanced MIMO antenna system offers 22dBi of gain in a compact and visually pleasing package. The antenna also offers great front to back performance which helps reduce interference. A snap-on radome is included to protect the antenna from snow, ice, hail and crazy birds who sometimes like to nest in antennas.

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 need to be loaded to the computer.

The antenna can be installed with Vertical Polarization or Horizontal Polarization, depending on customer preference. The corrosion resistant bracket system allows mounting to a pole with up to 2.25” diameter or wall mounting using the included wall mount brackets. The bracket provides +/- 20 degrees vertical tilt and unlimited horizontal adjustment. The system comes with 24V Power over Ethernet power inserters and 2 rolls of shielded and outdoor rated 75’ long CAT5 cable assemblies. The shielded outdoor cable helps to protect against EMI from lightning and ESD from wind.

The EZ-Bridge® Ultra5 comes complete with all the electronics that are needed for a point to point wireless network bridge installation; including two powerful 22dBi 802.11a/n MIMO antennas with built-in high power electronics, Bracket Kits which accommodate pole or wall mounting, 24V PoE (Power over Ethernet) power inserters and two 75’ Shielded Outdoor Rated CAT5 cable assemblies.

<table>
<thead>
<tr>
<th>FEATURES</th>
<th>BENEFITS</th>
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<tbody>
<tr>
<td>High Power Electronics and powerful advanced MIMO antenna</td>
<td>Operation up to 4 miles or more with good line of sight and up to 150 Mbps</td>
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<tr>
<td>True Plug and Play</td>
<td>No driver needed. Pre-configured at the factory for automatic peer to peer communications</td>
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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, VPN and supports multiple MAC addresses

**TECHNICAL SPECIFICATIONS**

**Data Rates:** 6-150 Mbps  
**Operating Distance:** up to 12miles line of sight

**Standards**  
IEEE802.11n, 802.11a, 802.3, 802.3u

**Power Requirements**  
Power Supply: 100-240VAC 50/60Hz  
EZ-Bridge® Ultra5: 12VDC to 24VDC  
Avg Power Consumption: 5.5W

**Regulatory Certifications**  
FCC Part 15 / UL

**RF Frequency Band**  
5180 ~ 5825 MHz

**Available Transmit Power**  
802.11a/n: 4 to 23dBm

**Modulation Technology**  
802.11a: OFDM  
802.11n: TDMA

**Operating Channels**  
5GHz  12 channels supported at 40MHz width

**Receive Sensitivity (Typical)**  
802.11a/n: -96 +/-2dB @ 14Mbps  
802.11n: -75 +/-2dB @ 300Mbps

**Antenna**  
5GHz 22dBi Dish Antenna, 8 deg AZ and 8 deg EL Beamwidth, >23dB front to back

**Network Topology**  
Ad-Hoc, Infrastructure

**Operation Modes**  
Point to Point Bridge, Access Point, Client Bridge or Router

**Processor:** Atheros MIPS 24KC 400Mhz  
**Interface:** 10/100Mbps RJ-45 LAN Port

**Memory:** 32MB SDRAM, 8MB Flash  
**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** (diameter x D)  
326mm dia x 254mm depth (12.84” dia x 10”)

**Complete System Weight**  
8.6 kg (19 lbs)

**Temperature Range**  
Operating: -30°C to 75°C (-22°F to 167°F)  
Storage: -40°C to 80°C (-40°F to 176°F)

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

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RoHS Compliant

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Azimuth Antenna Pattern  
Elevation Antenna Pattern

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