



Product Datasheet

EZ-Base™



The EZ-Base™ series are a high power 250mW 802.11bg or 802.11a outdoor wireless base station or client system with built-in battery backup that provides 15 hours of backup time. The controller used is solar ready so daylight hours backup time can be extended simply by adding a 12V solar panel up to 85W. The controller also has a secondary power output for powering other 12V devices.

Since the electronics are buffered by the integrated 12V battery and charge controller, the system protects against surges and voltage spikes which may cause damage to traditional base station equipment. The external N type female connector is ready for connection to any suitable 50Ω antenna. The EZ-Base™ comes with a tri-band omnidirectional antenna for applications requiring short distance communications. Typical useable range is up to 20 miles with a suitable external antenna.

The system operates in the 2.4GHz or 5GHz unlicensed frequency spectrum providing real world thruput up to 25 Mb/sec. It complies with the 802.11b and g or 802.11a standards to insure interoperability.

With its advanced EZOS™ software, the EZ-Base™ supports multiple operating modes, including; Client Bridge, Client Router, Access Point Bridge, Access Point Router, Access Point + WDS, Repeater and Point to Point. The hardware and software platform supports WEP and WPA encryption, even in point to point mode, for unsurpassed security.

The EZ-Base™ comes complete with a Tri-Band Omnidirectional Antenna, Cat5e rated POE (Power Over Ethernet) power inserter and 24VDC auto-ranging power supply/charger. The vented enclosure is die cast aluminum with powder coat paint. The battery is a 12V 9Ah AGM VRSLA type with rated 5 year life. The corrosion resistant bracket system accommodates pole or wall mounting.

FEATURES	BENEFITS
High Power 250mW Electronics	Operation up to 20 miles and up to 25Mbps (with customer supplied antenna)
Integrated 15 hour Battery Backup	Uninterruptable operation, power line filtering
Advanced EZOS™ Software	No driver needed. Easy configuration thru web interface and remotely. Multiple Operating Modes. Plug and Play installation. Antenna alignment utility. Bandwidth management. Data Logging and statistics graphing.
64 and 128bit WEP, WPA and WPA2 Encryption	Most powerful data security available
Power over Ethernet	The EZ-Base™ can be mounted up to 100meter (300') from a power source
Seamless Roaming	Allows users to roam between access points without loss of connection
DHCP Client or Server	Simplifies network administration
MAC Address filtering	Ensures secure network connection in all operating modes
VOIP Friendly QOS	Quality Of Service mechanism to ensure good Voice Over IP performance
SNMP	Compatible with your favorite network management software

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 24VDC

EZ-Base POE In: 15VDC to 24VDC

Full Recharge Time: 4 hours

Optional Solar Panel: 12V 85W max

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

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

Included Antenna - 3dBi/5dBi 2.4/5GHz

External Antenna Connector - N Type - Female Bulkhead 50Ω

Network Topology

Ad-Hoc, Infrastructure

Operation Mode

Point to Point Bridge, Repeater, 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, Telnet

Firmware Upgrade

Upgrade firmware via web browser

Physical Dimensions (L x W x D)

279mm x 216mm x 89mm

11" x 8.5" x 3.5"

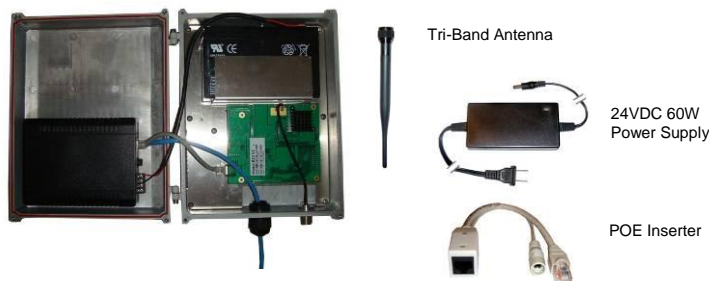
Complete System Weight

4.5 kg (10 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)



EZ-Base™ Interior View

Ordering:

EZ-Base-2 2.4GHz 802.11bg 250mW

EZ-Base-5 5GHz 802.11a 250mW

Notes:

- All shipments F.O.B. Draper, UT 84020
- EZ-Base carries a 1 year warranty