Product Datasheet

EZ2+V3 2.4GHz 100Mbps Radio Board

The EZ2+V3 is a high capacity 100Mbps and high power 300mW outdoor wireless bridge system operating in the 2.4GHz unlicensed spectrum.

The system supports 802.11n TDMA and 802.11g OFDM for backward compatibility. The radio board has 2 IPEX antenna connectors for MIMO operation. If only one antenna is used the overall speed of the connection will drop to 802.11g speeds which is around 50Mbps.

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

If changes to the pre-configured settings are desired, they can be easily done thru the built-in web interface. There are no drivers or software that need to be loaded to the computer. The advanced WISPOS software has an easy to use user interface with powerful features.

The board is equipped with power-on LED, Ethernet link LED, and four signal strength LED's. It also is equipped with an audible beeper to give feedback to the user. For instance during power-up or antenna alignment. There is a reset button to allow performing a soft or hard reset to the board. Multifunction reset button allows soft or hard reset.

Low power consumption and wide operating temperature range. Ports are protected for ESD to 15kv.

FEATURES	BENEFITS
High Power MIMO Compatible Electronics	Operation up to 12 miles or more with good line of sight and a 24dBi antenna
Easy and Straightforward User Interface	No driver needed. Web Interface through any browser
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	Radio boards can be mounted up to 100meter (300') from the power source
Transparent Bridge (WDS) mode	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
2.4Ghz 802.11n: up to 300Mbps
2.4 GHz 802.11g: up to 54Mbps

Standards
IEEE802.11g/n, 802.3, 802.3u

Power Requirements
12VDC to 24VDC Passive PoE or via DC Connector. Average Power Consumption: 4W

Regulatory Certifications
FCC Part 15 / UL

RF Frequency Band
2400 ~ 2497 MHz

Modulation Technology
802.11n: TDMA
802.11g: OFDM

Receive Sensitivity (Typical)
802.11n: -90 dBm
802.11g: -75 dBm

Transmit Power
25dBm 316mW

DC Connector Power Out
2.1mm x 5.5mm DC Barrel Connector.
Output Voltage = PoE Input Voltage @ Max 10W

Reset Button Function
15 seconds – Reset to last saved configuration
45 seconds – Reset to factory defaults

Antenna Connector
IPEX, U.FL Qty 2

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. Either port accepts passive PoE input. No PoE output, only data. Can power a second device via the DC Connector.

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

Board Physical Dimensions (L x W x H)
152mm x 104mm x 19mm
4.6” x 4.1” x 0.75”

Complete System Weight
70g (2.5oz)

Operating Temperature
-30°C to +70°C (-22°F to 158°F)

Warranty: 1 Year

RoHS compliant

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