



EnGenius® DATASHEET

Wireless Bridge/Client Router/AP/Repeater ECB-3220

2.4 GHz 802.11 b/g 54 Mbps

The Wireless High Power and High Gain Bridge/ Client Router/ Access Point / Repeater operates seamlessly in the 2.4 GHz frequency spectrum supporting the 802.11b (2.4GHz, 11Mbps) and the newer, faster 802.11g (2.4GHz, 54Mbps) wireless standards. It's the best way to add wireless capability to your existing wired network, or to add bandwidth to your wireless installation.



To protect your wireless connectivity, it can encrypt all wireless transmissions through 64/128-bit WEP data encryption and also supports WPA/WPA2. The MAC address filter lets you select exactly which stations should have access to your network. User isolation function can protect the private network between client users.

Features	Benefits
High Speed Data Rate Up to 54Mbps	Capable of handling heavy data payloads such as MPEG video streaming
High Output Power up to 26 dBm	Excellent output power spreads the operation distance
IEEE 802.11b/g Compliant	Fully Interoperable with IEEE 802.11b/IEEE802.11g compliant devices
SNMP Remote Configuration Management	Help administrators to remotely configure or manage the Access Point easily.
Point-to-point, Point-to-multipoint Wireless Connectivity	Let users transfer data between two buildings or multiple buildings
WPA2/WPA/ IEEE 802.1x support	Powerful data security
Hide SSID (AP Mode)	Avoids unallowable users sharing bandwidth, increases efficiency of the network
DHCP Client/ Server	Simplifies network administration
WDS (Wireless Distributed System)	Make wireless AP and Bridge mode simultaneously as a wireless repeater
Universal Repeater	The easiest way to expand your wireless network's coverage
MAC address filtering (AP mode)	Ensures secure network connection
User isolation support (AP mode)	Protect the private network between client users.
PPPoE function support (CR mode)	Easy to access internet via ISP service authentication
Power-over-Ethernet (IEEE802.3af)	Flexible Access Point locations and cost savings

* Theoretical wireless signal rate based on IEEE standard of 802.11a, b, g chipset used. Actual throughput may vary. Network conditions and environmental factors lower actual throughput rate.

** All specifications are subject to change without notice.

Keep personal setting

Keep the latest setting when firmware upgrade

Technical Specifications

Data Rates

1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48, 54 Mbps

Standards

IEEE802.11b/g, IEEE802.1x, IEEE802.3, IEEE802.3u

Compatibility

IEEE 802.11g/ IEEE 802.11b

Power Requirements

Power Supply: 90 to 240 VDC \pm 10% (depends on different countries)
Device: 12 V/ 1.25A

Status LEDs

LAN: Link, WLAN: Link, Power: on/off

Regulation Certifications

FCC Part 15/UL, ETSI 300/328/CE

RF Information

Frequency Band

2.400~2.484 GHz

Media Access Protocol

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

Modulation Technology

Orthogonal Frequency Division Multiplexing (OFDM)
DBPSK @ 1Mbps
DQPSK @2Mbps
CCK @ 5.5 & 11Mbps
BPSK @ 6 and 9 Mbps
QPSK @ 12 and 18 Mbps
16-QAM @ 24 and 36 Mbps
64-QAM @ 48 and 54 Mbps

Operating Channels

11 for North America, 14 for Japan, 13 for Europe,

Receive Sensitivity (Typical)

802.11g:
-88dBm @ 6Mbps
-70dBm @ 54Mbps

802.11b:
-92 dBm @ 1Mbps
-85 dBm @ 11Mbps

Available Transmit Power

(Typical)

- 2.412~2.472G(IEEE802.11g)

Up to 26dBm @ 1~24Mbps

23dBm @ 36Mbps

21dBm @ 48Mbps

20dBm @ 54Mbps

- 2.412~2.472G(IEEE802.11b)

Up to 26dBm. @1 ~ 11Mbps

RF Connector

TNC Type (Female Reverse)

Networking

Topology

Ad-Hoc, Infrastructure

Operation Mode

Point-to-Point/ Point-to-Multipoint
Bridge/ Client Router/ AP/ WDS/
Repeater

Interface

One 10/100Mbps RJ-45 LAN Port

Security

- ◆ IEEE802.1x Authenticator / RADIUS Client (EAP-MD5/TLS/TTLS)
Support in AP Mode
- ◆ WPA /WPA2
- ◆ MAC address filtering
- ◆ Hide SSID in beacons
- ◆ User isolation
- ◆ NAT in CR mode

IP Auto-configuration

DHCP client/server

Management

Configuration

- ◆ Web-based configuration (HTTP)
- ◆ SNMP V1, V2c
- ◆ Telnet

Firmware Upgrade

Upgrade firmware via web-browser

Environmental

Temperature Range

Operating: 0°C to 45°C (32°F to 113°F)
Storage: -20°C to 70°C (-4°F to 158°F)

Humidity (non-condensing)

5%~95% Typical

Package Contents

One Bridge/AP/Repeater Device
One Power Adapter
One CAT5 UTP Cable
One Quick Start Guide

One CD-ROM with User's Manual

Related Product(s)

11 b/g Wireless USB Adapter
EUB-362 Series
EUB-3701
11a/b/g Wireless USB Adapter
EUB-862 Series
EUB-8301
11b High-power Client Bridge
2611CB3+(Deluxe)
11g Indoor AP-Client
ECB-3610
11g Indoor Router
ESR-1220
11g Outdoor AP-Client
EOC-3220 Series
EOC-3610 Series
11 b/g/n Wireless USB Adapter
EUB-9701 Series

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