



# EOC – 3220 PLUS

Wireless Bridge/Client Router/AP/Repeater

2.4 GHz

802.11 b/g

54 Mbps

The Wireless Bridge/Client Router/Access Point/Repeater operates seamlessly in the 2.4 GHz frequency spectrum supporting the 802.11b (2.4GHz, 11Mbps) and faster 802.11g (2.4GHz, 54Mbps) wireless standards.

EOC-3220 PLUS has high transmitted output power and high receivable sensitivity. High output power and high sensitivity can extend range and coverage to reduce the roaming between APs to get more stability wireless connection. It also can reduce the expense of equipment in the same environment.

To protect your wireless connectivity, it can encrypt all wireless transmissions through 64/128-bit WEP data encryption and also supports WPA/WPA2/802.1x. User isolation function can protect the private network between client users. The MAC addresses filter and IP/MAC tunneling lets you select exactly which stations should have access to your network.



Features	Benefits
High Speed Data Rate Up to 54Mbps	Capable of handling heavy data payloads such as MPEG video streaming
High Output Power EIRP up to 42 dBm (with 16dBi Patch Antenna)	Excellent output power spreads the operation distance
IEEE 802.11b/g Compliant	Fully Interoperable with IEEE 802.11b/IEEE802.11g compliant devices
Watertight and Weatherproof	Avoid water invaded and weather corroded for outdoor environment.
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
Keep personal setting	Keep the latest setting when firmware upgrade

\*\*\* Subject to change without prior notice



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## 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

Active Ethernet (802.3af) – 48 VDC/0.375A

### 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

### Antenna

Internal 16dBi patch antenna.

### NETWORKING

#### Topology

Ad-Hoc, Infrastructure

#### Operation Mode

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

#### Interface

- ◆ Wireless IEEE802.11b/g
- ◆ One 10/100 RJ-45 port
- ◆ RS232 connector

#### Security

- ◆ IEEE802.1x Authenticator / RADIUS Client (EAP-MD5/TLS/TTL) 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

#### Weight

1.2 Kg (2.6 lbs)

### ENVIRONMENTAL

#### Temperature Range

Operating: 0°C to 65°C  
(32°F to 149°F)  
Storage: -20°C to 80°C  
(-4°F to 176°F)

#### Humidity (non-condensing)

5%~95% Typical

#### Package Contents

- Outdoor Wireless Client Bridge unit
- 48V, 0.375A AC/DC adapter with wall-plug power code
- Inline Power Injector (PoE)
- 1.8m Grounding Cable
- User's manual CD-ROM
- Wall mounting kit
- Mast mounting kit
- Waterproof kit

#### Related Product(s)

High-power Wireless USB Adapter  
EUB-362 Series (802.11b/g)  
EUB-862 Series (802.11a/b/g)  
11b/g Indoor AP-Client  
ECB-3220 (802.11g)  
Outdoor AP-Client  
EOC-8610 Series (802.11a/b/g)  
Indoor AP-Client  
ECB-3220 series (802.11b/g)  
ECB-8610 series (802.11a/b/g)

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EnGenius Networks Singapore Pte Ltd

215 Henderson Road #01-04 Henderson Industrial Park Singapore 159554

Tel: +65-62271088 Fax: +65-62272766

Website: [www.engeniustech.com.sg](http://www.engeniustech.com.sg) Email: [inquiry@engeniustech.com.sg](mailto:inquiry@engeniustech.com.sg)

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