



## 802.11g/b High Powered Outdoor Bridge with AP Functionality

### EOC-3220+

Pushing outdoor range and functionality to its limits, EnGenius Technologies offers its latest outdoor multi-purpose device, the EOC-3220+. The EOC-3220+ features flexibility needed for various deployments such as 802.3af certified PoE. Security features such as 802.1x, WEP, and WPA2 provide security. Experience the best in wireless connectivity today with the EOC-3220+.

## Specifications

### General:

- High Speed Data Rates up to 54Mbps for heavy data payloads like video streaming
- Fully interoperable with IEEE802.11b & 802.11g compliant devices
- Point-to-point or point-multipoint capable wireless connectivity
- Weatherproof IP67 certified enclosure with lightning suppression built right in
- Full WPA & IEEE802.1x authenticator support for maximum security
- Hide SSID functionality creates a private network accessible only to those that you wish to allow
- Built-in DHCP Client/Server for easy network administration
- Fully functional WDS "Wireless Distribution System" for bridge, access point, and repeater functionality all in one package
- MAC address filtering in AP mode ensures network security
- SNMP v1/v2 support for easy remote management
- 802.3af Power over Ethernet certified device

### Radio:

- **Frequency Band:** 2.4-2.484GHz
- **Media Access Protocol:**  
Carrier Sense Multiple Access with Collision Avoidance(CSMA/CA)
- **Radio Type:** Direct Sequence Spread Spectrum(DSSS)
- **Operation Channels:** 11 for North America
- **RF Output Power (Typical):**  
24dBm @ 1,2,5.5 & 11Mbps  
23dBm @ 6,9,12 & 18Mbps  
22dBm @ 24 & 36Mbps  
21dBm @ 48 & 54Mbps
- **RF Connector:** SMA Type
- **Receive Sensitivity (Typical):**

-94dBm @ 1Mbps	-92dBm @ 2Mbps
-89dBm @ 5.5Mbps	-86dBm @ 11Mbps
-92dBm @ 6Mbps	-90dBm @ 9Mbps
-88dBm @ 12Mbps	-86dBm @ 18Mbps
-83dBm @ 24Mbps	-79dBm @ 36Mbps
-74dBm @ 48Mbps	-72dBm @ 54Mbps
- **Modulation \*OFDM:**

DBPSK @ 1Mbps	DQPSK @ 2Mbps
CCK @ 5.5&11Mbps	BPSK @ 6&9Mbps
QPSK @ 12&18Mbps	16-QAM @ 24&36Mbps
64-QAM @ 48&54Mbps	
- **Antenna:**  
16 dBi internal flat panel directional antenna  
\*Alternative model with external RP-SMA antenna connector

### Network:

- **Network Topology:**  
Ad-Hoc, Infrastructure
- **Operation Modes:**  
Point-to-point/Point-to-Multipoint Bridge, Access point/WDS
- **Interface:** 1x 10/100Mbps RJ-45 LAN Port
- **Supported OS:**  
Windows 98SE      Windows ME  
Windows 2000      Windows XP
- **Roaming:** IEEE802.11b compliant
- **Security:**  
IEEE802.1x Authenticator/RADIUS Client \*EAP-MD5/TLS/  
TTLS\* support in Access Point Mode  
WPA/Pre-share Key(PSK)/TKIP      MAC Address Filtering  
Hide SSID in beacons      Layer 2 isolation  
DHCP Client/Server      VLAN tunneling support

### Specifications:

- **Data Rates:** 1,2,5.5,6,9,11,12,18,24,36,48,54Mbps
- **Standards:** IEEE802.11x, IEEE802.3, IEEE802.3u, IEEE802.11a/b/g, IEEE802.11b, IEEE802.11g, IEEE802.11a
- **Power Requirements:**  
Active Ethernet PoE -48VDC/0.7A  
External Unit: Auto sensing 100/240VAC; 50/60Hz
- **Surge Arrester:** 20KA Surge Current
- **Regulation Certifications:** FCC Part 15
- **Environment:**
- **Temperature Range:**  
Operating: -20°C to 70°C  
Storage: -40°C to 80°C
- **Humidity (non-condensing):**  
5%~95% Typical

### Management:

- **Configuration:** Web-based configuration \*HTTP Telnet configuration SNMP V1/V2C\* MIB1, MIB2 Private MIB
- **Firmware Upgrade:** Upgrade Firmware via web-browser

### Package Content:

- 1x EOC-3220
- 1x Waterproof kit
- 1x Wall mounting kit
- 1x Active Power over Ethernet injectors
- 1x User manual CD-disc
- 1x AC/DC adapter
- 1x Grounding Cable
- 1x Mast mounting kit

\*All specifications are subject to change by EnGenius without prior notice\*



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