

# ECWO7220-L 802.11ac Dual-Band Wireless Controller-based Outdoor Access Point



## Product Overview

The ECWO7220-L is an 802.11a/b/g/n/ac, dual-band, dual-radio, outdoor wireless enterprise access point with a 3x3 MIMO configuration design. The Gigabit Ethernet backhaul port includes an 802.3at/af PoE function that enables the AP to be powered remotely from a PoE switch. The ECWO7220-L is an ideal outdoor wireless LAN solution for hotspot applications and high-density environments, such as large campuses, wireless cities, and public spaces.

## Key Features and Benefits

### Wireless 802.11ac Technology

Using 802.11ac MIMO (Multiple Input Multiple Output) wireless technology, the AP supports three transmitting and three receiving antennas that extend the range and increase the throughput by up to nine times that of existing Wi-Fi.

### Full Management Capabilities

The AP supports the Simple Network Management Protocol (SNMP v1/v2c/v3), including MIB II and MIB I. The IEEE 802.1X authentication protocol supports Extensible Authentication Protocol (EAP) MD5, Transport Layer Security (TLS), Protected EAP (PEAP), Tunneled TLS (TTLS), EAP-SIM, and EAP-AKA.

### Wall- and Pole-Mounting Support

The AP includes robust wall- and pole-mount accessories that meet any kind of deployment environment.

### Advanced Traffic Management

Support for up to sixteen Virtual Access Point (VAP) interfaces per radio, which allows traffic to be separated for different user groups within the same service area. Each radio can support up to 100 wireless clients, shared between all VAPs, whereby the clients associate with each VAP in the same way as they would with physically separate APs. This means that each VAP can be configured with its own Service Set Identification (SSID), security settings, VLAN assignments, and other parameters, allowing the AP to serve a diverse range of client needs from a single unit.

### Integrated High-Gain Antenna

The ECWO7220-L has six built-in omnidirectional high-gain antennas (2.4 GHz: 7 dBi, 5 GHz: 8 dBi). Through optimized RF tuning and output power, the AP is ideal for users that require high throughput and stability.

## Application Diagram



Outdoor Dual-Band Wireless Access Point

## Features

### Physical Features

One 10/100/1000BASE-T Gigabit Ethernet (RJ-45) port with 802.3at/af-compliant Power-over-Ethernet (PoE) support  
 One 10/100/1000BASE-T Gigabit Ethernet (RJ-45)  
 One console port with an RJ-45 connector  
 LED: Power/System  
 Six embedded omni antennas

### Standards

IEEE 802.11n 2.4 GHz and 5.0 GHz  
 IEEE 802.11ac/a/n 5.0 GHz  
 IEEE 802.11b/g, 2.4 GHz  
 IEEE 802.3, IEEE 802.3u, IEEE 802.3ab  
 IEEE 802.3af/at Power over Ethernet (PoE)  
 IEEE 802.11h Regulatory Domain Selection  
 IEEE 802.11i  
 IEEE 802.11r  
 IEEE 802.1k  
 Wi-Fi Multimedia (WMM)  
 Wireless Distribution System (WDS)

### Wireless Frequency

802.11g/n:  
 2.4 ~ 2.4835 GHz (US, Canada)  
 2.4 ~ 2.4835 GHz (ETSI, Japan)  
 802.11b:  
 2.4 ~ 2.4835 GHz (US, Canada)  
 2.4 ~ 2.4835 GHz (ETSI)  
 2.4 ~ 2.497 GHz (Japan)  
 802.11a/n/ac:  
 5.15 ~ 5.25 GHz (lower band) US/Canada, Europe, Japan  
 5.25 ~ 5.35 GHz (middle band) US/Canada, Europe, Japan  
 5.725 ~ 5.825 GHz (upper band) US/Canada  
 5.50 ~ 5.70 GHz Europe  
 5.47 ~ 5.725GHz

### Wireless Features

Output Power: 23 dBm  
 VAP (Virtual Access Point) support with up to 32 SSIDs (2.4 GHz: 16, 5 GHz: 16)  
 Transmit power adjustment  
 IEEE 802.11h DFS/DFS2 and automatic TPC  
 Traffic control for each SSID  
 Band preference for same SSID services on dual band  
 Dynamic channel selection for noisy environments  
 Rate selection to disable low data rate access  
 Band Steering: Client connection preemption (ac > n > a > g > b) in case service capability is full  
 Auto-channel selection  
 Auto power adjustment between APs  
 Rogue AP detection  
 RF scanning  
 Channel assignment  
 Multicast support  
 Fast roaming (802.11r)  
 Packet capture  
 Frame priority assignment  
 Load balancing with radio utilization rate  
 RADIUS Client: RADIUS DM/COA Support  
 Throughput: Data Rate (1.3 Gbps+450 Mbps)  
 Concurrent Users: 200 clients/dual radio

### Security

WEP 64/128-bits  
 Wi-Fi Protected Access (WPA/WPA2)  
 Secure Shell (SSH), Telnet  
 Secure Sockets Layer (SSL) remote management login  
 HTTPS  
 Access Control Lists: 512  
 RADIUS authentication  
 EAP-MD5, EAP-TLS, EAP-TTLS, PEAP, EAP-SIM, and EAP-AKA  
 SSID broadcast disable  
 RADIUS 802.1x support (IPv4, IPv6)  
 RADIUS Accounting  
 802.11w protection of management frame  
 AP shutdown/radio disable

### Network Management

Industrial CLI (Command Line Interface)  
 Telnet, SSH  
 Web-based management (HTTP and HTTPS)  
 SNMP management v1/v2c/v3  
 Software download and upgrade by TFTP, FTP, or HTTP  
 Configuration file backup and restore by TFTP or FTP  
 System Information – AP status, station status, event logs  
 Dual image  
 Sntp  
 Country selection  
 Scheduled rebooting  
 RADIUS Accounting  
 IPv4 and IPv6 dual stack support  
 IPv6 tunnel  
 DSCP  
 Link integrity to disable WiFi service when uplink is not available  
 Remote management  
 Customized captive portal login page  
 Captive Portal: BYOD Zero-IT (Dynamic WPA PSK configuration)  
 Bonjour responder  
 Packet capture

### Antenna

Type: Omnidirectional  
 Gain: 7 dBi @ 2.4 GHz, 8 dBi @ 5 GHz

### Regulatory and Safety Compliance

CE  
 FCC

### Mechanical

Dimensions: 239.19 x 292.78 mm (device only)  
 Weight: 3 kg

### Power

Powered by 802.3at PoE

## Features

### Environmental Specification

Temperature:  
Standard Operating: -40°C to 65°C  
Storage: -25°C to 70°C  
Humidity: 5% to 95% (non-condensing)  
Waterproof/Dustproof: IP67  
Transportation Environment: ETS 300 019-2-2 class 2.3  
Drop: IEC 68-2-32  
Wind Survivability: 125 km/ph  
Lightning/Surge Protection: 6KV, IEC-61000-4-5 class 4,  
ANSI/TIA-968-A

### Warranty

Please check [www.edge-core.com](http://www.edge-core.com) for the warranty terms in your country.

### For More Information

To find out more about Edgecore Networks Corporation products and solutions, visit [www.edge-core.com](http://www.edge-core.com).

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