ECWO7220-L

802.11ac Dual-Band Wireless FIT 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 3x3 MIMO configuration design. The Gigabit Ethernet backhaul comes with 802.3at/af PoE function and can be powered by PoE switch remotely.

ECWO7220-L is the best suitable outdoor wireless LAN solution for hotspot application & high density environments such as large campus, wireless city & public space.

Key Features and Benefits

Wireless 802.11ac Technology

Using 802.11ac 3x3 MIMO (Multiple Input Multiple) wireless technology, the AP supports three tranmitting and three receiving antennas that extend range and increase the throughput by up to nine times that of existing Wi-Fi.

Full Management Capabilities

It supports 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 Mount & Pole Mount Support

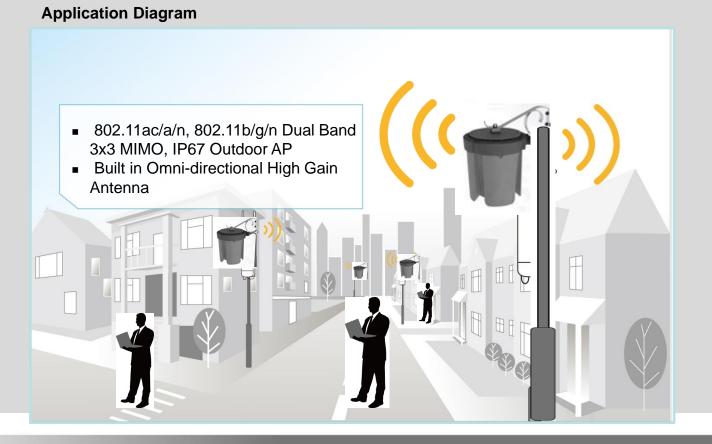Provide Robust Wall mount & Pole mount accessories to meet any kind of environment deployment.

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

ECWO7220-L is built-in 6 x Omni Direction High Gain Antenna(2.4GHz: 7dBi, 5GHz: 8dBi). Through Optimized RF Turing & Output power, it will be very suitable for users to pursue high throughput & Stability.

Application Diagram

- 802.11ac/a/n, 802.11b/g/n Dual Band 3x3 MIMO, IP67 Outdoor AP
- Built in Omni-directional High Gain Antenna

For a world always connected…

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(10/100/1000BASE-T) with an RJ-45 connector
- LED: Power/System
- Six embedded Omni antennas
- PoE 802.3at/af compliant

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 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: 20dBm
- VAP (Virtual Access Point) support with up to 32 SSIDs(2.4GHz: 16, 5GHz: 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 environment
- 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 AP
- Rough AP Detection
- RF Scanning
- Channel Assignment
- Support Multi-cast
- Fast Roaming(802.11r)
- Packet Capture
- Frame Priority Assignment
- Load balancing with radio utilization rate
- Radius Client: Radius DM/COA Support
- Throughout: Data Rate(1.3Gbps+450Mbps)
- Concurrent users: 200 clients/Dual Radio

Security

- WEP 64/128-bits
- Wi-Fi Protected Access (WPA/WPA2)
- Secure SSH (Secure Sockets Shell), Telnet
- Secure Sockets Layer (SSL) remote management login
- HTTPS
- Access control list: 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
- Scheduling Rebooting
- Radius Accounting
- IPv4 and IPv6 dual stack support
- IPv6 Tunnel
- DSCP
- Link Integrity to disable WiFi service while 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: Omni Direction
Gain: ˙7dBi in 2.4GHz, 8dBi in 5GHz

Regulatory Compliance

TBD

Radio Signal Certification

TBD

Mechanical

Dimensions: 240 x 240 x 286 cm (Device only)
Weight: 3 kg

Power

TBS

Environmental Specification

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

Warranty

Please check www.edge-core.com for the warranty terms in your country/region.

For More Information
To find out more about Edge-Core Networks products and solutions, visit www.edge-core.com

About Edge-Core Networks
Edge-Core Networks is in the business of providing innovative network solutions. In the service provider network, in the data center or in the cloud, Edge-Core Networks delivers the software and systems that transform the way the world connects. Edge-Core Networks serves customers and partners worldwide. Additional information can be found at www.edge-core.com.