

ECW7220-L

802.11ac Dual-Band Wireless FIT Access Point



Product Overview

The ECW7220-L is an indoor 802.11a/b/g/n/ac dual-band, dual-radio enterprise fit AP with a 3x3 MIMO antenna configuration. Through its Gigabit Ethernet port the 802.11ac dual-band wireless AP can connect to the backbone network. The ECW7220-L supports 802.3at/af PoE, which enables the AP to be powered remotely by a PoE switch. An AC power adapter option is also included for locations where PoE is not available.

Key Features and Benefits

Wireless 802.11ac Technology

Using 802.11ac MIMO (Multiple Input Multiple) wireless technology, the AP supports three 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.

Advanced Traffic Management

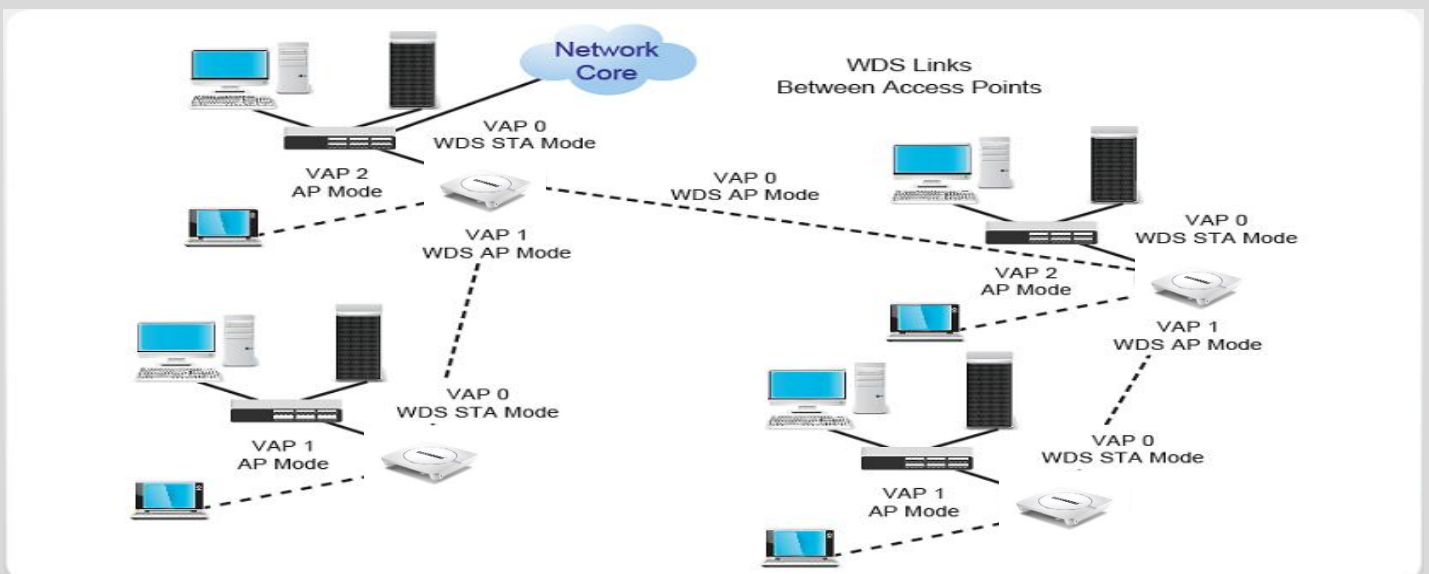
Support for up to sixteen Virtual Access Point (VAP) interfaces per radio, which allows traffic to be separated for different user groups within the same service area.

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.

Dual-Band Access Point

Easy on your budget and simple to install, the AP uses dynamic rate shifting to automatically match the best connection speed, keeping users connected to the network even while roaming.

Application Diagram



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
- Two LEDs: Power/Diag, WLAN1/WLAN2/LAN
- Six embedded Omni antennas
- PoE 802.3at/af compliant

Standards

IEEE 802.11n 2.4 GHz and 5.0 GHz
 IEEE 802.11ac/a 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
 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 16 SSIDs(2.4GHz: 8, 5GHz: 8)
- Operation modes: AP Mode, Point-to-Point WDS, Point-to-Multiple points WDS, WDS With AP
- 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
- Support Multi-cast
- Throughput: Data Rate(1.3Gbps+450Mbps)
- Concurrent users: 200 clients

Security

- WEP 64/128-bits
- Wi-Fi Protected Access (WPA/WPA2)
- WPA/WPA2 (PSK) over WDS
- Secure SSH (Secure Sockets Shell), Telnet
- Secure Sockets Layer (SSL) remote management login
- HTTPS
- Access control list
- RADIUS authentication
- EAP-MD5, EAP-TLS, EAP-TTLS, PEAP, EAP-SIM, and EAP-AKA
- SSID broadcast 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
- DSCP
- Link Integrity to disable WiFi service while uplink is not available
- Remote Management

Antenna

Type: PCB type
 Gain: 4dBi in 2.4GHz, 5dBi in 5GHz

Regulatory Compliance

FCC Part 15 Subpart B
 CE
 NCC, BSMI

Radio Signal Certification

FCC Part 15C 15.247, 15.207 (2.4GHz)
 EN 300 328
 EN 301 489-1
 EN 301 489-17

Mechanical

Dimensions: 20 x 20 x 3.65 cm
 Weight: 0.75 kg

Power

Input: 100 or 240 VAC, 50-60 Hz
 Output: 48V/ 2A
 Power Consumption: 14 W maximum

Environmental Specification

Temperature:
 Standard Operating: 0°C to 50°C
 Storage: -20°C to 70°C
 Humidity: 10% to 90% (non-condensing)

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.