

ECW7220-L

802.11ac Dual-Band Wireless Controller-based Access Point



Product Overview

The ECW7220-L is an indoor 802.11a/b/g/n/ac dual-band, dual-radio enterprise controller-based 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 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 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), Tunnelled TLS (TTLS), EAP-SIM, and EAP-AKA.

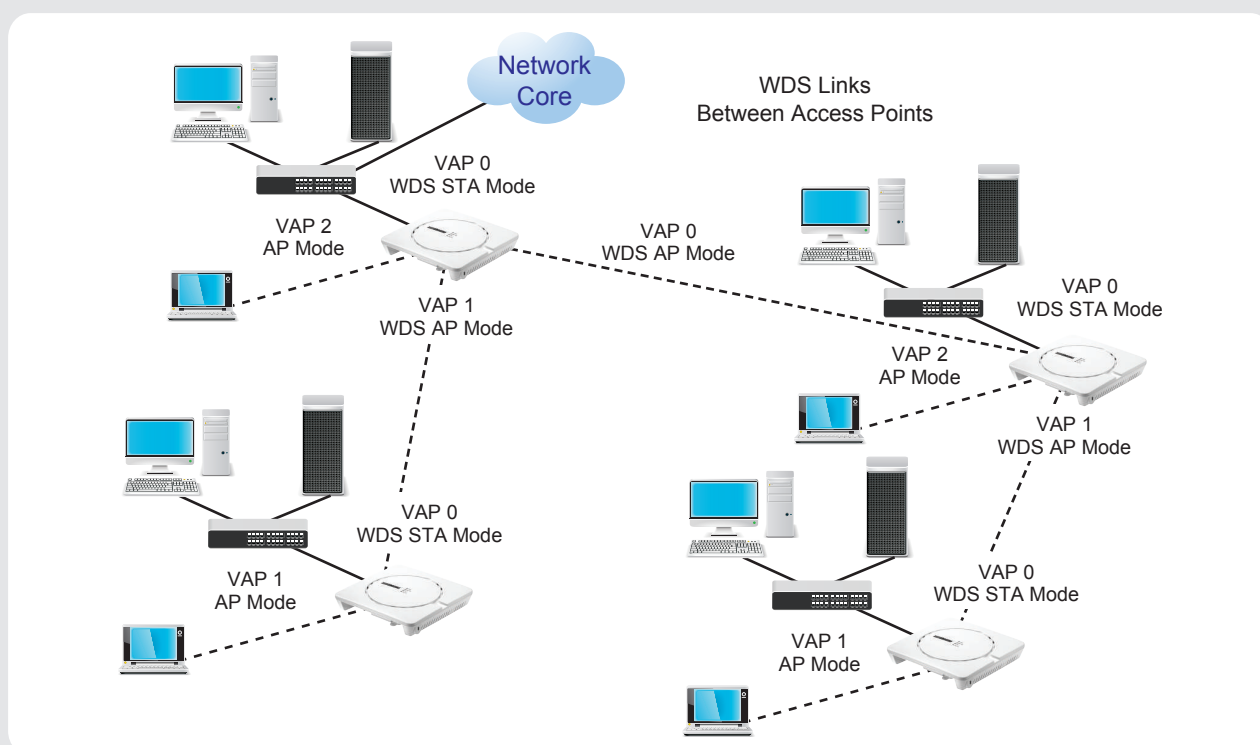
Advanced Traffic Management

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

Standard

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 ~ 5.725 GHz

Wireless Features

Output power: 20 dBm
VAP (Virtual Access Point) support with up to 16 SSIDs
(2.4 GHz: 8, 5 GHz: 8)
Operation modes: AP Mode, Point-to-Point WDS, Point-to-Multipoint 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 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
Support for multicast
Throughput: Data rate (1.3 Gbps + 450 Mbps)
Concurrent Users: 200 clients

Security

WEP 64/128-bits
Wi-Fi Protected Access (WPA/WPA2)
WPA/WPA2 (PSK) over WDS
SSH (Secure 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
Scheduled rebooting
Radius Accounting
IPv4 and IPv6 dual stack support
DSCP
Link integrity to disable Wi-Fi service while uplink is not available
Remote management

Antenna

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

Regulatory and Safety Compliance

FCC Part 15 Subpart B
CE
NCC, BSMI

Radio Signal Certification

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

Mechanical

Dimensions: 20 x 20 x 3.65 cm (7.8 x 7.8 x 1.43 inch)
Weight: 0.75 kg (1.65 lb)

Power

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

Features

Environmental Specification

Temperature:

Standard Operating: 0°C to 50°C (32°F to 122°F)

Storage: -20°C to 70°C (-4°F to 158°F)

Humidity: 10% to 90% (non-condensing)

Warranty

Please check 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.

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