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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 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), Tunneled TLS (TTLS), EAP-SIM, and EAP-AKA.

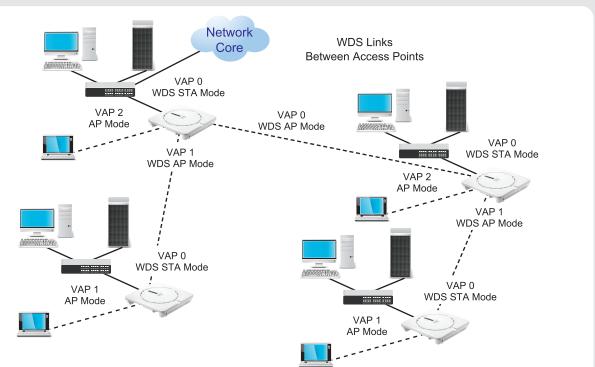
Advanced Traffic Management

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



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ECW7220-L Product Specifications

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Features	
Physical Features	Security
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	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
IEEE 802.11n 2.4 GHz and 5.0 GHz	EAP-AKA
IEEE 802.11ac/a 5.0 GHz IEEE 802.11b/g, 2.4 GHz IEEE 802.3, IEEE 802.3u, IEEE 802.3ab	SSID broadcast disable Network Management
IEEE 802.3af Power over Ethernet (PoE)	Industrial CLI (Command Line Interface)
IEEE 802.11h Regulatory Domain Selection	Telent, SSH
IEEE 802.11i	Web-based management (HTTP and HTTPS)
Wi-Fi Multimedia (WMM)	SNMP management v1/v2c/v3
Wireless Distribution System (WDS)	Software download and upgrade by TFTP, FTP, or HTTP
	Configuration file backup and restore by TFTP or FTP
Wireless Frequency	System Information – AP status, station status, event logs
802.11g/n:	Dual image
2.4 ~ 2.4835 GHz (US, Canada)	SNTP Sources a classifier
2.4 ~ 2.4835 GHz (ETSI, Japan) 802.11b:	Country selection
2.4 ~ 2.4835 GHz (US, Canada)	Scheduled rebootingg Radius Accounting
2.4 ~ 2.4835 GHz (ETSI)	IPv4 and IPv6 dual stack support
2.4 ~ 2.497 GHz (Japan)	DSCP
802.11a/n/ac:	Link integrity to disable WiFi service while uplink is not available
5.15 ~ 5.25 GHz (lower band) US/Canada, Europe, Japan	Remote management
5.25 ~ 5.35 GHz (middle band) US/Canada, Europe, Japan	
5.725 ~ 5.825 GHz (upper band) US/Canada	Antenna
5.50 ~ 5.70 GHz Europe	Type: PCB type
5.47 ~ 5.725 GHz	Gain: 4 dBi in 2.4 GHz, 5 dBi in 5 GHz
Wireless Features Output power: 20 dBm	Regulatory and Safety Compliance FCC Part 15 Subpart B
VAP (Virtual Access Point) support with up to 16 SSIDs	CE
(2.4 GHz: 8, 5 GHz: 8) Operation modes: AP Mode, Point-to-Point WDS,	NCC, BSMI
Point-to-Multipoint WDS, WDS with AP	Radio Signal Certification
Transmit power adjustment	FCC Part 15C 15.247, 15.207 (2.4 GHz)
IEEE 802.11h DFS/DFS2 and automatic TPC	EN 300 328
Traffic control for each SSID	EN 301 489-1
Band preference for same SSID services on dual band	EN 301 489-17
Dynamic channel selection for noisy environments	
Rate selection to disable low data rate access	Mechanical
Band steering: Client connection preemption (ac> n > a> g > b)	Dimensions: 20 x 20 x 3.65 cm (7.8 x 7.8 x 1.43 inch)
in case service capability is full Auto-channel selection	Weight: 0.75 kg (1.65 lb)
Auto-channel selection Auto power adjustment between APs	Power
Support for multicast	Input: 100 or 240 VAC, 50-60 Hz
Throughput: Data rate (1.3 Gbps + 450 Mbps)	Output: 48 VDC, 2 A
Concurrent Users: 200 clients	Power Consumption: 14 W maximum



ECW7220-L Product Specifications

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.

About Edgecore Networks Corporation

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

Edgecore Networks Corporation is a subsidiary of Accton Technology Corporation, the leading network ODM company. The Edgecore Data Center switches are developed and manufactured by Accton.

To purchase Edgecore Networks solutions, please contact your Edgecore Networks Corporation representatives at +886 3 563 8888 (HQ) or +1 (949)-336-6801 or authorized resellers.

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