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

ECW07220-L Product Specifications

www.edge-core.com

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 ~ 5.725 GHz

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 Sockets 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
RADUIS 802.1x support (IPv4, IPv6)
RADUIS 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
RADUIS Accounting
IPv4 and IPv6 dual stack support
IPv6 tunnel
DSCP
Link integrity to disable Wi-Fi 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: 6 dBi @ 2.4 GHz, 6 dBi @ 5 GHz

Regulatory and Safety Compliance

CE
FCC
UL
CB
NCC
BSMI

Mechanical

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

Power

Powered by 802.3at PoE

TEL: +886-3-5638888 FAX: +886-3-6686111
No.1, Creation Rd. III, Hsinchu Science Park, Taiwan 30077
sales@edge-core.com www.edge-core.com

TEL: +1 (949)-336-6801
20 Mason Irvine, CA 92618

ECW07220-L Product Specifications

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 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.

TEL: +886-3-5638888 FAX: +886-3-6686111
No.1, Creation Rd. III, Hsinchu Science Park, Taiwan 30077
sales@edge-core.com www.edge-core.com

TEL: +1 (949)-336-6801
20 Mason Irvine, CA 92618