ECW5410-O
802.11ac OCP Wireless Access Point

Product Overview

The ECW5410-O is an Wave 2 indoor 802.11a/b/g/n/ac dual-band, dual-radio enterprise indoor AP with a 4x4 MU-MIMO antenna configuration.
Through its Gigabit Ethernet port the 802.11ac dual-band wireless AP can connect to the backbone network. The ECW5410-O supports 802.3at 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.

Wave 2, MU-MIMO

Support 4 clients at the same time. Also, it supports beamforming and channel bonding(80MHz→160MHz)

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

ECW5410-O Product Specifications
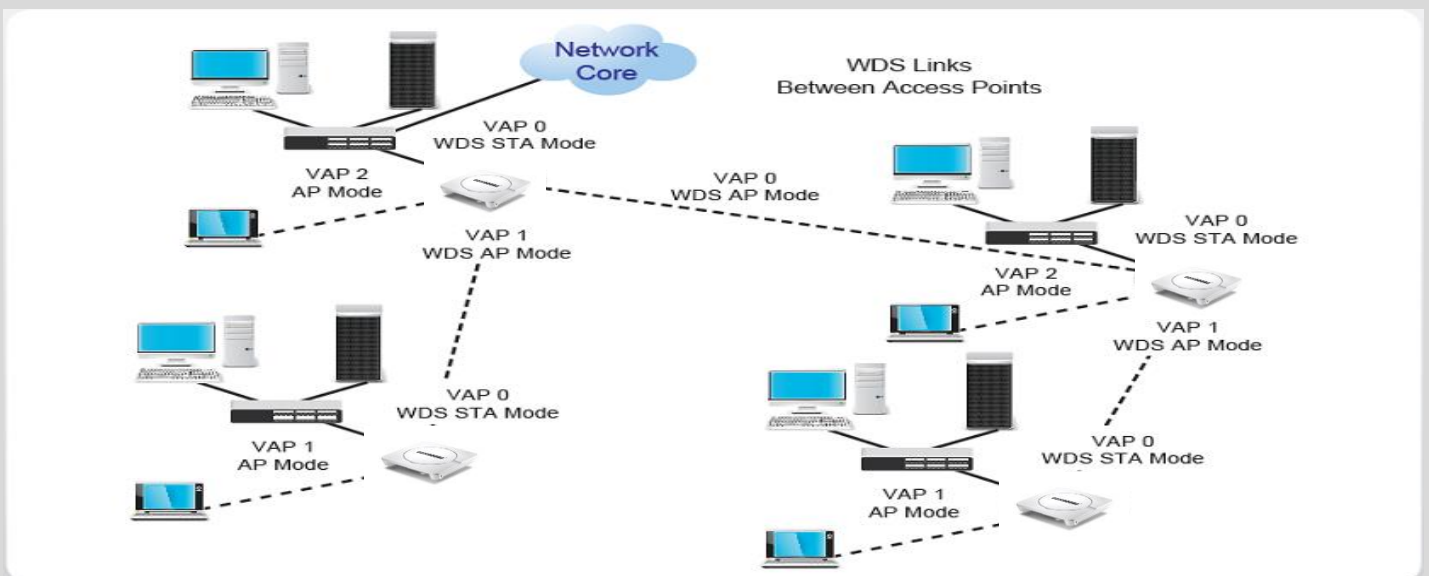
Features

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
- One USB Port (optional)
- One Reset Button
- Five LEDs: Power, WLAN 2.4G, WLAN 5G, Eth1/PoE, Eth2
- PoE 802.3at 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) Europe, Japan
  5.725 ~ 5.825 GHz (upper band) US/Canada
  5.50 ~ 5.70 GHz Europe

Wireless Features

- 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
- Dynamic Channel Selection for noisy environment
- Auto-channel selection
- Support Multi-cast

Security

- WEP 64/128-bits
- Wi-Fi Protected Access (WPA/WPA2)
- WPA/WPA2 (PSK) over WDS
- Secure SSH (Secure Sockets Shell), Telnet
- SSID broadcast enable/disable

Network Management

- Telent
- Web-based Management (HTTP and HTTPS)
- SNMP management v1/v2c
- Software download and upgrade by TFTP, HTTP
- Configuration file backup and restore
- System Information – AP status, station status, event logs
- SNTP
- Country selection
- IPv4 and IPv6 dual stack support
- Remote Management
- UPNP
- Upstream / Dwonstream Rate Limit

Antenna

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

Regulatory Compliance

FCC Part 15 Subpart B
CE

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: 190.88x194.76x38mm
Weight: 0.623kg

Power

Input: 100 or 240 VAC, 50-60 Hz
Output: 12V 2A (or Ethernet PoE 802.3af/ at compatible)
Power Consumption: 17.4 W maximum

Environmental Specification

Temperature:
  Standard Operating: 0°C to 50°C
  Storage: -20°C to 70°C
Humidity: 10% to 95% (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.

Federal Communication Commission Interference Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Operations in the 5.15-5.25GHz band are restricted to indoor usage only.

Radiation Exposure Statement:
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 42cm between the radiator & your body.