ECWO5110

802.11a/b/g/n Outdoor Dual-Band Wireless Access Point

Product Overview

The ECWO5110 is an 802.11a/b/g/n dual band, dual radio, Outdoor Wireless Enterprise Access Point with 2x2 MIMO configuration design. The Gigabit Ethernet backhaul comes with 802.3af PoE function and can be powered by PoE switch remotely.

ECWO5110 is the best suitable outdoor wireless LAN solution for extending the network coverage when wired networks are not available. It also provides the point to point and point to multi-point wireless bridge function to save infrastructure investments.

Key Features and Benefits

Wireless 802.11n Technology

Using 802.11n MIMO (Multiple Input Multiple Output) wireless technology, the AP supports two transmitting and two receiving antennas that extend range and increase the throughput than the existing Wi-Fi.

Full Management Capabilities

The ECWO5110 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.
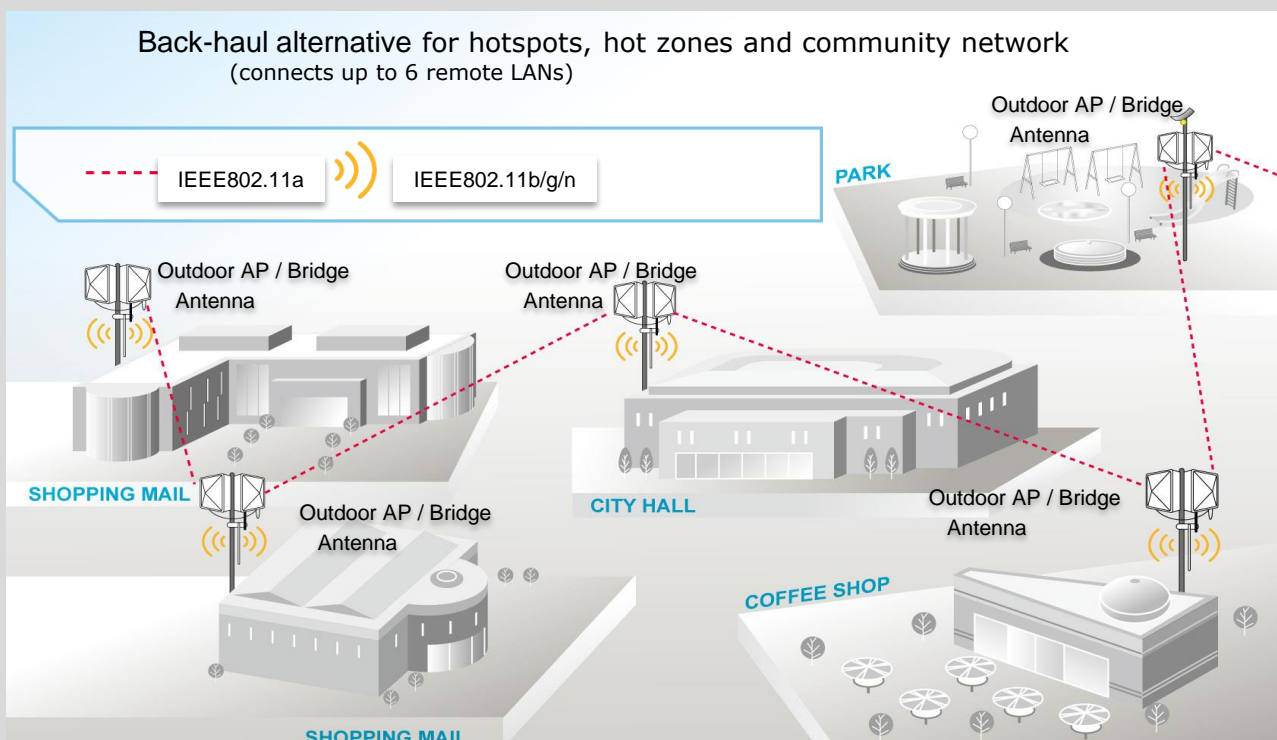
Advanced Traffic Management

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 127 wireless clients, shared between all VAPs, whereby the clients associate with each VAP in the same way as they do 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

Back-haul alternative for hotspots, hot zones and community network
(connects up to 6 remote LANs)

IEEE802.11a))) IEEE802.11b/g/n

PARK
Outdoor AP / Bridge Antenna

Outdoor AP / Bridge Antenna

Outdoor AP / Bridge Antenna

SHOPPING MALL

Outdoor AP / Bridge Antenna

CITY HALL

Outdoor AP / Bridge Antenna

COFFEE SHOP

SHOPPING MALL

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Features

Physical Features

- One 10/100/1000BASE-T Gigabit Ethernet (RJ-45) port with 802.3af-compliant Power over Ethernet (PoE) support
- One console port with an RJ-45 connector
- Four LEDs: Power/System, Ethernet, WLAN 1, and WLAN 2
- Two N-type antenna connectors for 2.4 GHz 802.11b/g/n radio
- One N-type antenna connectors for 5 GHz 802.11a/n radio
- One embedded antenna for 5 GHz 802.11a/n radio

Standards

IEEE 802.11n 2.4 GHz and 5.0 GHz
IEEE 802.11a 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
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)

802.11a/n:
  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

Wireless Features

- VAP (Virtual Access Point) support with up to 16 SSIDs
- 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
- Client connection preemption (n > ag > b) in case service capability is full
- Auto-channel selection

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)
- Telent, 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
- Link Integrity to disable WiFi service while uplink is not available

Antenna

Type: Embedded 5GHz Directional Patch Antenna x 1
Gain: 10 dBi

Regulatory Compliance

FCC Part 15 Subpart B
CB, UL, CNS

Radio Signal Certification

FCC Part 15C 15.247, 15.207 (2.4GHz)
NCC (Taiwan)

Mechanical

Dimensions: 195 x 190 x 74 mm
Weight: 1.7 kg

Power

802.3af
Power Consumption: 10.56 W maximum

Environmental Specification

Temperature:
  Standard Operating: -10°C to 60°C (14°F to 140°F)
  Storage: -20°C to 70°C (-4°F to 158°F)
Humidity: 5% 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

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