Tallac Networks

Tallac SD-LAN Datasheet

ECWO7211-L
802.11ac Dual-Band Wireless Outdoor Access Point

Product Overview

The ECWO7211-L is an 802.11a/b/g/n/ac, dual band, dual radio, Outdoor Wireless Enterprise Access Point with 3x3 MIMO configuration design. The Gigabit Ethernet backhaul comes with 802.3at/af PoE function and can be powered by a PoE switch remotely. The ECWO7211-L is the best suitable outdoor wireless LAN solution for hotspot application & high density environments such as large campus, wireless city & public spaces.

Key Features and Benefits

Wireless 802.11ac Technology

Using 802.11ac 3x3 MIMO (Multiple Input Multiple Output) wireless technology, the AP supports three transmitting and three receiving antennas that extend range and increase the throughput by up to nine times that of existing Wi-Fi.

Integrated High Gain Antenna

The ECWO7211-L has a built-in 6 x Omni Direction High Gain Antenna (2.4GHz: 7dBi, 5GHz: 8dBi). Through Optimized RF Tuning & Output power, it is very suitable for users to pursue high throughput & stability.

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.

Wall Mount & Pole Mount Support

Robust Wall mount & Pole mount accessories are provided to meet any kind of environment deployment. IP67 water/dust proof.

Application Diagram

802.11ac/a/n, 802.11b/g/n
Dual Band 3x3 MIMO
IP67 Outdoor AP
Built in Omni-directional High Gain Antenna

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ECWO7211-L Product Specifications

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) port
- One console port(10/100/1000BASE-T) with an RJ-45 connector
- LED: Power/System
- Six embedded Omni antennas
- PoE 802.3at/af compliant

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 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 ~ 5.725GHz

Wireless Features

- Output power: 23dBm
- VAP (Virtual Access Point) support with up to 32 SSIDs (2.4GHz: 16, 5GHz: 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 environment
- 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
- Supports Multi-cast
- Fast Roaming (802.11r)
- Packet Capture
- Frame Priority Assignment
- Load balancing with radio utilization rate
- Radius Client: Radius DM/COA Support
- Throughout: Data Rate (1.3Gbps+450Mbps)
- Concurrent users: 200 clients/Dual Radio

Security

- WEP 64/128-bits
- Wi-Fi Protected Access (WPA/WPA2)
- Secure SSH (Secure Sockets Shell), 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
- Radius 802.1x Support (IPv4, IPv6)
- Radius Accounting
- 802.11w Protection of Management Frame
- AP Shutdown/Radio Disable

Antenna

Type: Omni Direction
Gain: ˙7dBi in 2.4GHz, 8dBi in 5GHz

Regulatory 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

Environmental Specification

- Temperature:
    Standard Operating: -40℃ to 65℃
    Storage: -25℃ to 70℃
- Humidity: 5% to 95% (non-condensing)
- Water/Dust-proof: IP67
- Transportation environment: ETS 300 019-2-2 class 2.3
- Drop: IEC 68-2-32
- Wind Survivability: 125km/ph
- Lightning/Surge Protection: 6KV, IEC-61000-4-5 class 4, ANSI/TIA-968-A

Warranty

3 years