

ECW5211-L

TIP OPEN INDOOR ACCESS POINT

INTRODUCTION

The ECW5211-L is an enterprise-grade, concurrent dual-band 802.11ac Wave 2 indoor access point, designed specifically for high-density Wi-Fi environments. The ECW5211-L features two 2x2:2 MU-MIMO radios that can each transmit data to multiple clients simultaneously, and together have a combined data rate of up to 1.2 Gbps. Besides, the ECW5211-L's integrated Bluetooth Low Energy (BLE) radio also enables new value-added applications such as indoor location tracking, iBeacon, and other location-based services.

The TIP open ECW5211-L AP hardware is pre-installed with TIP's Open AP software, saving time and hassle from software installation, but at the same time reserve the flexibility for further changes. From SMB to MDUs to larger venues, the TIP open ECW5211-L is a flexible hardware platform for the different network use cases and requirements.



HIGHLIGHTS

WI-FI

- Concurrent Dual-Band 2.4 & 5 GHz
- 802.11ac 2x2 MU-MIMO supporting up to 1.2 Gbps data rate
- Support up to 32 ESSIDs.
- Enterprise-Grade Wireless Security

PHYSICAL

- Wall and ceiling mountable
- High Density Wi-Fi deployment
- 802.3af Power over Ethernet (PoE)
- Gigabit LAN Ethernet port
- Bluetooth Low Energy (BLE)

SPECIFICATIONS

PHYSICAL	
CPU	<ul style="list-style-type: none"> IPQ4018
Flash	<ul style="list-style-type: none"> NOR: 32MB NAND: 256MB
Memory	<ul style="list-style-type: none"> 256MB
Power	<ul style="list-style-type: none"> DC Input: 12V / 1.0A (Power adapter included) PoE: 802.3af compliant (PoE injector optional)
Dimensions	<ul style="list-style-type: none"> 14.7 cm (L) x 14.7 cm (W) x 3.6 cm (H)
Weight	<ul style="list-style-type: none"> 0.36 kg (0.79 lbs)
Interfaces	<ul style="list-style-type: none"> Uplink: 1 x 10/100/1000Base-T Ethernet, Auto MDIX, RJ-45 with 802.3af PoE LAN: 1 x 10/100/1000Base-T Ethernet, Auto MDIX, RJ-45 USB: 1 x USB 2.0 Port
LED Indicator	<ul style="list-style-type: none"> Power / 2.4G-WiFi / 5G-WiFi / Eth1 / Eth2
Buttons	<ul style="list-style-type: none"> Restart / Reset
Environmental Conditions	<ul style="list-style-type: none"> Operating Temperature: 0°C (32°F) to 50°C (122°F) Operating Humidity: 5% to 95% non-condensing
Power Consumption	<ul style="list-style-type: none"> 11W max.
Antenna	<ul style="list-style-type: none"> Type: 3 x Built-in PIFA (2 x 2.4 GHz & 5 GHz, 1 x Bluetooth Low Energy) Gain: 3 dBi (2.4 GHz), 5 dBi (5 GHz), 3 dBi (BLE)
Mounting	<ul style="list-style-type: none"> Wall Mount/ T-bar Mount (Mounting kit included)/Ceiling mount (Mounting kit optional) Anti-theft: 1 Kensington Lock hole on the metal part of housing
ESD	<ul style="list-style-type: none"> IEC-61000-4-2 +/-4KV for contact discharge, +/-8KV for Air discharge (criteria B)
WI-FI	
Standards	<ul style="list-style-type: none"> 802.11 ac Wave 2/a/b/g/n Concurrent dual-band 2.4 & 5 GHz
Supported Data Rates	<ul style="list-style-type: none"> 802.11b: 1, 2, 5.5, 11 Mbps 802.11a/g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps 802.11n: 6.5 – 144 Mbps (20 MHz) 802.11n: 13.5 – 300 Mbps (40 MHz) 802.11ac: 6.5 – 173.4 Mbps (20 MHz) 802.11ac: 13.5 – 400 Mbps (40 MHz) 802.11ac: 29.3 – 866.6 Mbps (80 MHz)
Radio Chains	<ul style="list-style-type: none"> 2 x 2
Spatial Streams	<ul style="list-style-type: none"> 2; MU-MIMO support
RF Output Power*1	<ul style="list-style-type: none"> 2.4 GHz: Up to 21 dBm*2 5 GHz: Up to 20 dBm*2
Channelization	<ul style="list-style-type: none"> 20 MHz 40 MHz 80 MHz
Frequency Band	<ul style="list-style-type: none"> 2.412 – 2.472 GHz 5.180 – 5.825 GHz
Operating Channels	<ul style="list-style-type: none"> 2.4 GHz: 1 – 11 (US), 1 – 13 (Europe), 1 – 13 (Japan) 5 GHz*3: 36 – 165 (US), 36 – 140 (Europe), 36 – 144 (Japan)
ESSIDs	<ul style="list-style-type: none"> Up to 16 per radio (32 total)
Certifications	<ul style="list-style-type: none"> FCC (United States), CE (Europe), TELEC, VCCI, NCC, BSMI, Anatel, KC, SRRC

*1: RF output power aggregates across MIMO chains and doesn't contain antenna gain

*2: Maximum power is limited by local regulatory requirements

*3: Some channels are restricted by local regulatory requirements

PERFORMANCE

Physical Data Rate	<ul style="list-style-type: none"> • Up to 300 Mbps (2.4 GHz) • Up to 867 Mbps (5 GHz)
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FIRMWARE

TIP Open WiFi Ready

PART NUMBER

ECW5211-L (T-US)	• FI2EC5211400S-C
ECW5211-L (T-EU)	• FI2EC5211201S-C
ECW5211-L (T-UK)	• FI2EC5211301S-C

Contact Us

For more information, please contact us: openwifi@edge-core.com

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