

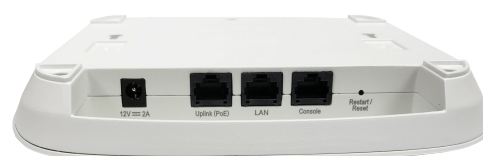
# ECW5410-L

## TIP OPEN INDOOR ACCESS POINT

### INTRODUCTION

The ECW5410-L is a concurrent dual-band 802.11ac Wave 2 high-density access point. Featuring dual 4x4 Multi-User MIMO (MU-MIMO) radios, the ECW5410-L can simultaneously support up to 800 Mbps and 1.73 Gbps data rates for both 2.4GHz and 5GHz bands, far surpassing the throughput of the latest 802.11ac Wave 1 access points. It provides a Gigabit LAN port for Ethernet-capable network devices and a built-in Bluetooth Low Energy (BLE) beacon that can be used for targeted marketing campaigns. The combination 802.11ac Wave 2 MU-MIMO technology and 4x4 spatial streams makes the ECW5410-L a top choice for high-density environments such as stadiums, arenas, and conference rooms.

The TIP open ECW5410-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 ECW5410-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 4x4 MU-MIMO supporting up to 2.5 Gbps data rate
- Support up to 32 ESSIDs.
- Enterprise-Grade Wireless Security

#### PHYSICAL

- Wall and ceiling mountable
- High Density Wi-Fi deployment
- 802.3at PoE LAN port
- Bluetooth Low Energy (BLE)

## SPECIFICATIONS

PHYSICAL	
CPU	<ul style="list-style-type: none"> <li>• IPQ8068</li> </ul>
Flash	<ul style="list-style-type: none"> <li>• NOR: 32MB</li> <li>• NAND: 256MB</li> </ul>
Memory	<ul style="list-style-type: none"> <li>• 512MB</li> </ul>
Power	<ul style="list-style-type: none"> <li>• DC Input: 12V / 2A (Power adapter included)</li> <li>• PoE: 802.3at compliant (PoE injector optional)</li> </ul>
Dimensions	<ul style="list-style-type: none"> <li>• 19.5 cm (L) x 19.1 cm (W) x 3.9 cm (H)</li> </ul>
Weight	<ul style="list-style-type: none"> <li>• 0.62 kg (1.37 lbs)</li> </ul>
Interfaces	<ul style="list-style-type: none"> <li>• ETH1/PoE: 1 x 10/100/1000Base-T Ethernet, Auto MDIX, RJ-45 with 802.3at PoE</li> <li>• ETH2: 1 x 10/100/1000Base-T Ethernet, Auto MDIX, RJ-45</li> <li>• Console: 1 x RJ-45 Port</li> <li>• USB: 1 x USB 2.0 Port</li> </ul>
LED Indicator	<ul style="list-style-type: none"> <li>• Power / 2.4G-WiFi / 5G-WiFi / ETH 1 (PoE) / ETH 2</li> </ul>
Buttons	<ul style="list-style-type: none"> <li>• Restart / Reset</li> </ul>
Environmental Conditions	<ul style="list-style-type: none"> <li>• Operating Temperature: 0°C (32°F) to 50°C (122°F)</li> <li>• Operating Humidity: 5% to 95% non-condensing</li> </ul>
Power Consumption	<ul style="list-style-type: none"> <li>• 25.5W max.</li> </ul>
Antenna	<ul style="list-style-type: none"> <li>• Type: 5 x Built-in PIFA (4 x 2.4 GHz &amp; 5 GHz, 1 x Bluetooth Low Energy)</li> <li>• Gain: 3 dBi (2.4 GHz), 5 dBi (5 GHz), 3 dBi (BLE)</li> </ul>
Mounting	<ul style="list-style-type: none"> <li>• Wall/ T-bar/Ceiling mount (Mounting kit included)</li> </ul>
ESD	<ul style="list-style-type: none"> <li>• IEC-61000-4-2 +/-4KV for contact discharge, +/-8KV for Air discharge (criteria B)</li> </ul>
WI-FI	
Standards	<ul style="list-style-type: none"> <li>• 802.11 ac Wave 2/a/b/g/n</li> <li>• Concurrent dual-band 2.4 &amp; 5 GHz</li> </ul>
Supported Data Rates	<ul style="list-style-type: none"> <li>• 802.11b: 1, 2, 5.5, 11 Mbps</li> <li>• 802.11a/g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps</li> <li>• 802.11n: 6.5 – 288 Mbps (20 MHz)</li> <li>• 802.11n: 13.5 – 600 Mbps (40 MHz)</li> <li>• 802.11ac: 6.5 – 346 Mbps (20 MHz)</li> <li>• 802.11ac: 13.5 – 800 Mbps (40 MHz)</li> <li>• 802.11ac: 29.3 – 1733 Mbps (80 MHz)</li> </ul>
Radio Chains	<ul style="list-style-type: none"> <li>• 4 x 4</li> </ul>
Spatial Streams	<ul style="list-style-type: none"> <li>• 4; MU-MIMO support</li> </ul>
RF Output Power*1	<ul style="list-style-type: none"> <li>• 2.4 GHz: Up to 24 dBm*2</li> <li>• 5 GHz: Up to 24 dBm*2</li> </ul>
Channelization	<ul style="list-style-type: none"> <li>• 20 MHz</li> <li>• 40 MHz</li> <li>• 80 MHz</li> </ul>
Frequency Band	<ul style="list-style-type: none"> <li>• 2.412 – 2.472 GHz</li> <li>• 5.180 – 5.825 GHz</li> </ul>
Operating Channels	<ul style="list-style-type: none"> <li>• 2.4 GHz: 1 – 11 (US), 1 – 13 (Europe), 1 – 13 (Japan)</li> <li>• 5 GHz*3: 36 – 165 (US), 36 – 140 (Europe), 36 – 140 (Japan)</li> </ul>
ESSIDs	<ul style="list-style-type: none"> <li>• Up to 16 per radio (32 total)</li> </ul>
Certifications	<ul style="list-style-type: none"> <li>• FCC (United States), CE (Europe), TELEC, VCCI, NCC, BSMI</li> </ul>

\*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	• Up to 800 Mbps (2.4 GHz)
	• Up to 1733 Mbps (5 GHz)

## FIRMWARE

TIP Open WiFi Ready

## PART NUMBER

ECW5410-L (T-US)	• FI2EC5410400Z-C
ECW5410-L (T-EU)	• FI2EC5410203Z-C
ECW5410-L (T-UK)	• FI2EC5410301Z-C

## Contact Us

For more information, please contact us: [openwifi@edge-core.com](mailto:openwifi@edge-core.com)

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