

# EAP102

## TIP OPEN INDOOR ACCESS POINT

### INTRODUCTION

EAP102 is an enterprise-grade, concurrent dual-band Wi-Fi 6 indoor access point. EAP102 supports 4 x 4 : 4 uplink and downlink MU-MIMO between the AP and multiple clients, with up to 2.9 Gbps aggregated data rate. EAP102 is equipped with Bluetooth Low Energy (BLE) radio enabling value-added applications such as iBeacon.

The TIP open EAP102 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 EAP102 is a flexible hardware platform for the different network use cases and requirements.



### HIGHLIGHTS

- Concurrent Dual-Band 2.4GHz & 5GHz
- 802.11ax 4x4:4 UL MU-MIMO supporting up to 2.9 Gbps data rate
- Support up to 32 ESSIDs.
- Enterprise-Grade Wireless Security
- Bluetooth Low Energy (BLE)
- 802.3at Power over Ethernet (PoE)

## SPECIFICATIONS

PHYSICAL	
CPU	<ul style="list-style-type: none"> <li>• IPQ8071A</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>• 1GB</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>• 195 mm (L) x 201 mm (W) x 398 mm (H)</li> </ul>
Weight	<ul style="list-style-type: none"> <li>• 0.7 kg (1.54 lbs)</li> </ul>
Interfaces	<ul style="list-style-type: none"> <li>• Uplink: 1 x 10/100/1000/2.5GBase-T Ethernet, Auto MDIX, RJ-45 with 802.3at PoE</li> <li>• LAN: 1 x 10/100/1000/2.5GBase-T Ethernet, Auto MDIX, RJ-45</li> <li>• Console: 1 x RJ-45 Port</li> <li>• USB: 2 x USB 2.0 Port*<sup>1</sup></li> </ul>
LED Indicator	<ul style="list-style-type: none"> <li>• Uplink / 2.4G-WiFi / 5G-WiFi / Power</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 45°C (113°F)</li> <li>• Operating Humidity: 5% to 95% non-condensing</li> </ul>
Power Consumption	<ul style="list-style-type: none"> <li>• 25W max.</li> </ul>
Antenna	<ul style="list-style-type: none"> <li>• Type: 4 x Built-in antenna (2.4 GHz &amp; 5 GHz)</li> <li>• Gain: 5.5dBi (2.4 GHz, BLE), 7.6 dBi (5 GHz)</li> </ul>
Mounting	<ul style="list-style-type: none"> <li>• Wall/Ceiling/T-bar 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>• 802.11ax (Wi-Fi 6)</li> <li>• Concurrent dual-band 2.4 GHz &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 –300 Mbps (20 / 40 MHz)</li> <li>• 802.11ac: 6.5 –1733 Mbps (20 / 40 / 80 MHz)</li> <li>• 802.11ax: 3.6 –574 Mbps (2.4 GHz, 20 / 40 MHz)</li> <li>• 802.11ax: 3.6 –2400 Mbps (5 GHz, 20 / 40 / 80 MHz)</li> </ul>
Radio Chains	<ul style="list-style-type: none"> <li>• 2.4 GHz: 2 x 2</li> <li>• 5 GHz: 4 x 4</li> </ul>
Spatial Streams	<ul style="list-style-type: none"> <li>• 2.4 GHz: 2; MU-MIMO support</li> <li>• 5 GHz: 4; MU-MIMO support</li> </ul>
Aggregate Conducted Transmit Power* <sup>2</sup>	<ul style="list-style-type: none"> <li>• 2.4 GHz: 23dBm*<sup>3</sup></li> <li>• 5 GHz: 26dBm*<sup>3</sup></li> </ul>
Channelization	<ul style="list-style-type: none"> <li>• 2.4 GHz: 20 / 40 MHz</li> <li>• 5 GHz: 20 / 40 / 80MHz</li> </ul>
Frequency Range	<ul style="list-style-type: none"> <li>• 2.400 –2.483 GHz</li> <li>• 5.150 –5.850 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*<sup>4</sup>: 36 –165 (US), 36 –140 (Europe), 36 –144 (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, CE, LVD, NCC, BSMI, VCCI, JATE, IC, C-Tick, Philippines, Thailand</li> </ul>

\*1: One USB port work at a time

\*2: RF output power aggregates across MIMO chains and doesn't contain antenna gain

\*3: Maximum power is limited by local regulatory requirements

\*4: Some channels are restricted by local regulatory requirements

PERFORMANCE	
Physical Data Rate	<ul style="list-style-type: none"><li>• Up to 574 Mbps (2.4 GHz)</li><li>• Up to 2,400 Mbps (5 GHz)</li></ul>
FIRMWARE	
TIP Open WiFi Ready	
PART NUMBER	
EAP102_T	• FI2EC7616401S-C

### Contact Us

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

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