# EAP102

## 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 Plume WorkPass and HomePass Certified EAP102 supports OpenSync and can be integrated seamlessly with Plume WorkPass and HomePass platform applications, providing users with the best network experience.

## 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 | |
| --- | --- |
| **Power** | • DC Input: 12V / 2A (Power adapter included)<br>• PoE: 802.3at compliant (PoE injector optional) |
| **Dimensions** | • 195 mm (L) x 201 mm (W) x 398 mm (H) |
| **Weight** | • 0.7 kg (1.54 lbs) |
| **Interfaces** | • Uplink: 1 x 10/100/1000/2.5GBase-T Ethernet, Auto MDIX, RJ-45 with 802.3at PoE<br>• LAN: 1 x 10/100/1000/2.5GBase-T Ethernet, Auto MDIX, RJ-45<br>• Console: 1 x RJ-45 Port<br>• USB: 2 x USB 2.0 Port[*1] |
| **LED Indicator** | • Uplink / 2.4G-WiFi / 5G-WiFi / Power |
| **Buttons** | • Restart / Reset |
| **Environmental Conditions** | • Operating Temperature: 0°C (32°F) to 45°C (113°F)<br>• Operating Humidity: 5% to 95% non-condensing |
| **Power Consumption** | • 25W max. |
| **Antenna** | • Type: 4 x Built-in antenna (2.4 GHz & 5 GHz)<br>• Gain: 5.5dBi (2.4 GHz, BLE), 7.6 dBi (5 GHz) |
| **Mounting** | • Wall/Ceiling/T-bar mount (Mounting kit included) |

| WI-FI | |
| --- | --- |
| **Standards** | • 802.11ax (Wi-Fi 6)<br>• Concurrent dual-band 2.4 GHz & 5 GHz |
| **Support Data Rates** | • 802.11b: 1, 2, 5.5, 11 Mbps<br>• 802.11a/g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps<br>• 802.11n: 6.5 –300 Mbps (20 / 40 MHz)<br>• 802.11ac: 6.5 –1733 Mbps (20 / 40 / 80 MHz)<br>• 802.11ax: 3.6 –574 Mbps (2.4 GHz, 20 / 40 MHz)<br>• 802.11ax: 3.6 –2400 Mbps (5 GHz, 20 / 40 / 80 MHz) |
| **Radio Chains** | • 2.4 GHz: 2 x 2<br>• 5 GHz: 4 x 4 |
| **Spatial Streams** | • 2.4 GHz: 2; MU-MIMO support<br>• 5 GHz: 4; MU-MIMO support |

## WI-FI

| | |
|---|---|
| **Aggregate Conducted Transmit power** | • 2.4 GHz: 23dBm*3<br>• 5 GHz: 26dBm*3 |
| **Channelization** | • 2.4 GHz: 20 / 40 MHz<br>• 5 GHz: 20 / 40 / 80Mhz |
| **Frequency Range** | • 2.400 –2.483 GHz<br>• 5.150 –5.850 GHz |
| **Operating Channels** | • 2.4 GHz: 1 –11 (US), 1 –13 (Europe), 1 –13 (Japan)<br>• 5 GHz*4: 36 –165 (US), 36 –140 (Europe), 36 –144 (Japan) |
| **ESSID** | • Up to 16 per radio (32 total) |
| **Certification** | • FCC, CE, LVD, NCC, BSMI, VCCI, JATE, IC, C-Tick, Philippines, Thailand, Wi-Fi Certified |

*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** | • Up to 574 Mbps (2.4 GHz)<br>• Up to 2,400 Mbps (5 GHz) |

## FIRMWARE

Plume WorkPass and HomePass Certified

## PART NUMBER

| | | |
|---|---|---|
| FI2EC7616402S | EAP102 (PFCC) | Edgecore EAP102 works with Plume in US |
| FI2EC7616201S | EAP102 (PCE) | Edgecore EAP102 works with Plume in CE compliance regions |
| FI2EC7616501S | EAP102 (PJP) | Edgecore EAP102 works with Plume in Japan |