

EAP102

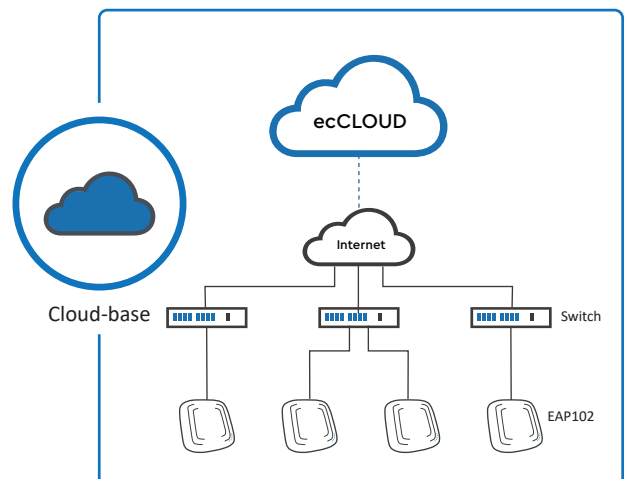
INDOOR WI-FI 6 ACCESS POINT



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.

EAP102 can be operated as standalone mode or managed by Edgecore ecCLOUD.



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 | <ul style="list-style-type: none"> DC Input: 12V / 2A (Power adapter included) PoE: 802.3at compliant (PoE injector optional) |
| Dimensions | <ul style="list-style-type: none"> 19.5 cm (L) x 20.1 cm (W) x 3.98 cm (H) |
| Weight | <ul style="list-style-type: none"> 0.7 kg (1.54 lbs) |
| Interfaces | <ul style="list-style-type: none"> Uplink: 1 x 10/100/1000/2.5GBase-T Ethernet, Auto MDIX, RJ-45 with 802.3at PoE LAN: 1 x 10/100/1000/2.5GBase-T Ethernet, Auto MDIX, RJ-45 Console: 1 x RJ-45 Port USB: 2 x USB 2.0 Port*1 |
| LED Indicator | <ul style="list-style-type: none"> Uplink / 2.4G-WiFi / 5G-WiFi / Power |
| Buttons | <ul style="list-style-type: none"> Restart / Reset |
| Environmental Conditions | <ul style="list-style-type: none"> Operating Temperature: 0°C (32°F) to 45°C (113°F) Operating Humidity: 5% to 95% non-condensing |
| Power Consumption | <ul style="list-style-type: none"> 25W max. |
| Antenna | <ul style="list-style-type: none"> Type: 4 x Built-in antenna (2.4 GHz & 5 GHz) Gain: 5.5dBi (2.4 GHz, BLE), 7.6 dBi (5 GHz) |
| Mounting | <ul style="list-style-type: none"> Wall/Ceiling/T-bar mount (Mounting kit included) |
| WI-FI | |
| Standards | <ul style="list-style-type: none"> 802.11ax (Wi-Fi 6) Concurrent dual-band 2.4 GHz & 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 –300 Mbps (20 / 40 MHz) 802.11ac: 6.5 –1733 Mbps (20 / 40 / 80 MHz) 802.11ax: 3.6 –574 Mbps (2.4 GHz, 20 / 40 MHz) 802.11ax: 3.6 –2400 Mbps (5 GHz, 20 / 40 / 80 MHz) |
| Radio Chains | <ul style="list-style-type: none"> 2.4 GHz: 2 x 2 5 GHz: 4 x 4 |
| Spatial Streams | <ul style="list-style-type: none"> 2.4 GHz: 2; MU-MIMO support 5 GHz: 4; MU-MIMO support |
| Aggregate Conducted Transmit Power*1 | <ul style="list-style-type: none"> 2.4 GHz: Up to 23dBm*2 5 GHz: Up to 26dBm*2 |
| Channelization | <ul style="list-style-type: none"> 2.4 GHz: 20 / 40 MHz 5 GHz: 20 / 40 / 80MHz |
| Frequency Range | <ul style="list-style-type: none"> 2.400 –2.483 GHz 5.150 –5.850 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, CE, LVD, NCC, BSMI, VCCI, JATE, IC, C-Tick, Philippines, Thailand |
| PERFORMANCE | |
| Physical Data Rate | <ul style="list-style-type: none"> Up to 574 Mbps (2.4 GHz) Up to 2,400 Mbps (5 GHz) |

*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

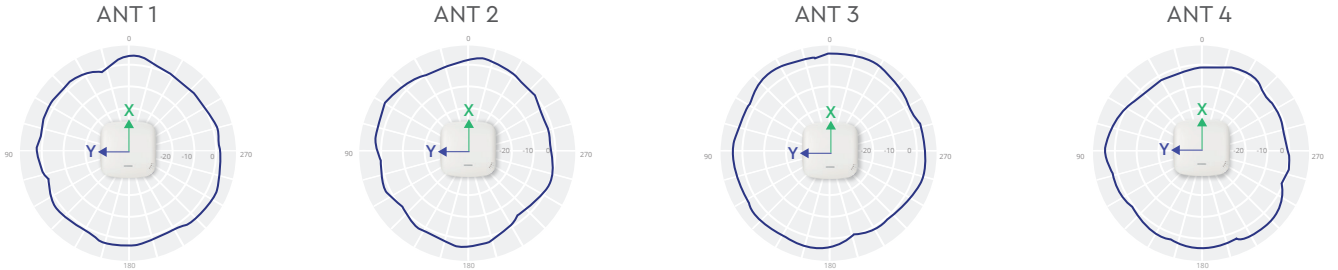
| FEATURES | |
|-------------|--|
| Wireless | <ul style="list-style-type: none"> • Orthogonal Frequency Division Multiple Access (OFDMA) • Client Isolation |
| Network | <ul style="list-style-type: none"> • Spanning Tree Protocol (STP) • Dynamic Host Configuration Protocol (DHCP) • 802.1q • Access Control List (ACL) • Network Address Translation (NAT) • Dynamic VLAN |
| Security | <ul style="list-style-type: none"> • WPA-Personal (AES) • WPA-Enterprise (AES) • WPA2-Personal (AES) • WPA2-Enterprise (AES) • WPA3-Personal (AES) • MAC Address Authentication |
| Maintenance | <ul style="list-style-type: none"> • Network Time Protocol (NTP) • Standalone • Management by ecCLOUD • SSH • QR Code Onboarding |
| Others | <ul style="list-style-type: none"> • iBeacon |

| RECEIVE SENSITIVITY | | |
|-------------------------|-----------|---------------------------|
| Operating Mode | Data Rate | Receive Sensitivity (dBm) |
| 802.11b | 1 Mbps | -96 |
| 802.11a | 6 Mbps | -92 |
| 802.11g | 54 Mbps | -75 |
| 802.11n (2.4 GHz/HT20) | MCS7 | -69 |
| 802.11n (2.4 GHz/HT40) | MCS7 | -66 |
| 802.11ac (VHT20) | MCS0 | -90 |
| 802.11ac (VHT40) | MCS9 | -60 |
| 802.11ac (VHT80) | MCS9 | -57 |
| 802.11ax (2.4 GHz/HE20) | MCS11 | -58 |
| 802.11ax (2.4 GHz/HE40) | MCS11 | -55 |
| 802.11ax (5 GHz/HE20) | MCS11 | -58 |
| 802.11ax (5 GHz/HE40) | MCS11 | -55 |
| 802.11ax (5 GHz/HE80) | MCS11 | -52 |

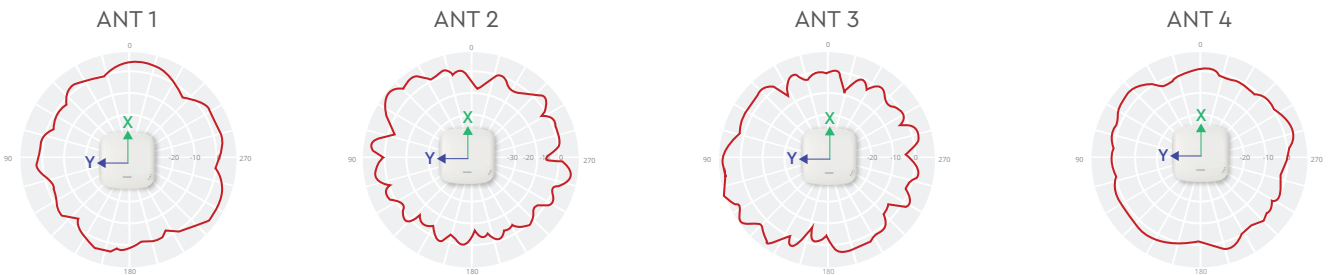
SIGNAL COVERAGE PATTERN

Azimuth

■ 2.4 GHz/BLE

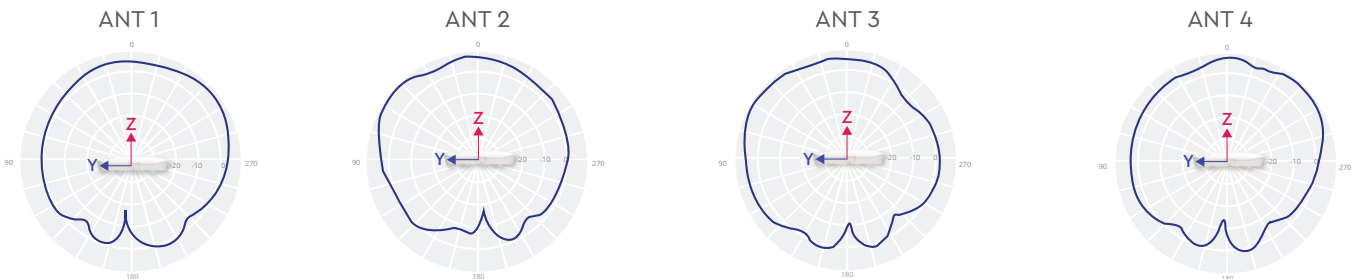


■ 5 GHz



Elevation

■ 2.4 GHz/BLE



■ 5 GHz

