

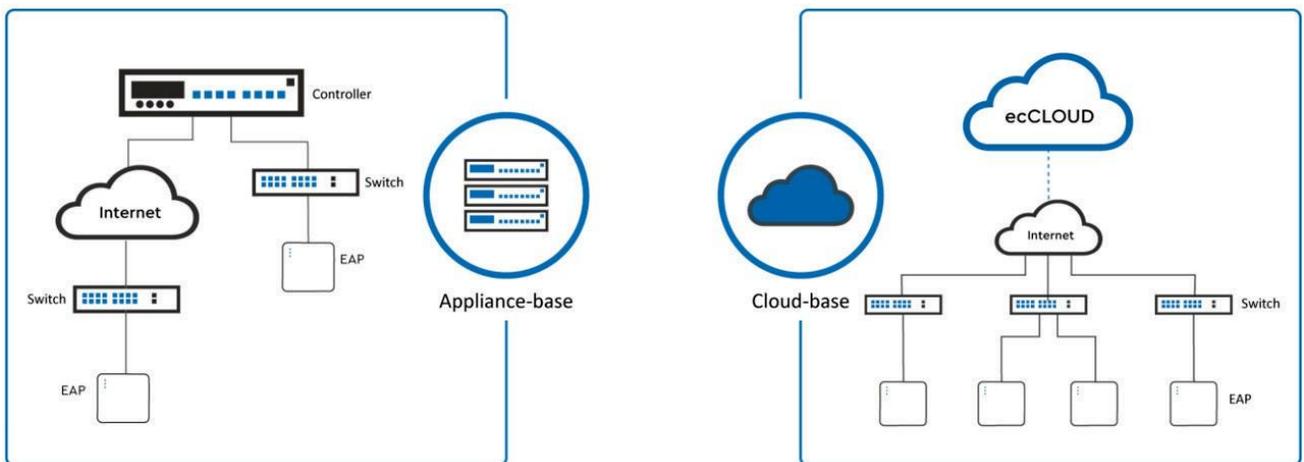
EAP111

WI-FI 6 ACCESS POINT



INTRODUCTION

EAP111 stands as an enterprise-grade, dual-band Wi-Fi 6 access point boasting a concurrent operation and an IP55-rated enclosure. With support for 2x2:2 uplink and downlink MU-MIMO between the access point and multiple clients, EAP111 delivers an impressive aggregated data rate of up to 3 Gbps. Notably, EAP111 comes equipped with a Bluetooth Low Energy (BLE) radio, enabling the integration of value-added applications such as iBeacon. Whether operating in standalone mode or under the management of Edgecore ecCLOUD, ecCLOUD-VPC, or EWS/VEWS Series controllers, EAP111 exemplifies versatility and high-performance connectivity.



HIGHLIGHTS

- Wi-Fi 6 2x2 uplink and downlink MU-MIMO with up to 3 Gbps data rate
- Support OpenRoaming
- Support up to 32 ESSIDs
- Enterprise-Grade Wireless Security
- Bluetooth Low Energy (BLE)
- IP55 rating

SPECIFICATIONS

| PHYSICAL | |
|---|---|
| Power | <ul style="list-style-type: none"> DC Input: 12V / 2.0A (Power adapter not included) PoE: 802.3at/af compliant (PoE injector not included) |
| Dimensions | <ul style="list-style-type: none"> 170 mm (L) x 185 mm (W) x 39.45 mm (H) |
| Weight | <ul style="list-style-type: none"> 0.63 kg |
| Interface | <ul style="list-style-type: none"> Uplink: 1 x 10/100/1000Base-T Ethernet, Auto MDIX, RJ-45 with 802.3at PoE LAN: 1 x 10/100/1000Base-T Ethernet, Auto MDIX, RJ-45 |
| LED Indicator | <ul style="list-style-type: none"> 1 tri-color LED: Power, Cloud Status, Uplink |
| 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 IP55 Rating |
| Power Consumption | <ul style="list-style-type: none"> 21.4 W max. |
| Antenna | <ul style="list-style-type: none"> Type: Built-in antenna Gain: 4.9 dBi (2.4 GHz), 5.8 dBi (5 GHz), 5.2 dBi (BLE) |
| Mounting | <ul style="list-style-type: none"> Wall/Ceiling mount (Mounting kit included), Pole mount (Mounting kit & hose clamp optional) |
| Anti-theft | <ul style="list-style-type: none"> 1 x Kensington lock slot |
| WI-FI | |
| Standards | <ul style="list-style-type: none"> 802.11a/b/g/n/ac/ax (Wi-Fi 6) 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 – 300 Mbps (20 / 40 MHz) 802.11ac: 6.5 – 867 Mbps (20 / 40 / 80 MHz) 802.11ax: 3.6 – 574 Mbps (2.4 GHz, 20 / 40 MHz) 802.11ax: 3.6 – 2402 Mbps (5 GHz, 20 / 40 / 80 / 160 MHz) |
| Radio Chains | <ul style="list-style-type: none"> 2.4 GHz: 2 x 2 ; 5 GHz: 3 x 3 |
| Spatial Streams | <ul style="list-style-type: none"> 4; Uplink and downlink MU-MIMO support |
| Aggregate Conducted Transmit Power*1 | <ul style="list-style-type: none"> 2.4 GHz: Up to 25.5 dBm*2 5 GHz: Up to 25 dBm*2 |
| Channelization | <ul style="list-style-type: none"> 2.4 GHz: 20 / 40 MHz 5 GHz: 20 / 40 / 80 / 160 MHz |
| Frequency Range | <ul style="list-style-type: none"> 2.401 – 2.483 GHz 5.170 – 5.835 GHz |
| Operating Channels | <ul style="list-style-type: none"> 2.4 GHz: 1-11 (US), 1-13 (Europe, 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 in total) |
| Certifications | <ul style="list-style-type: none"> FCC, IC, CE, LVD, TELEC, VCCI, NCC, BSMI, TEC |

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

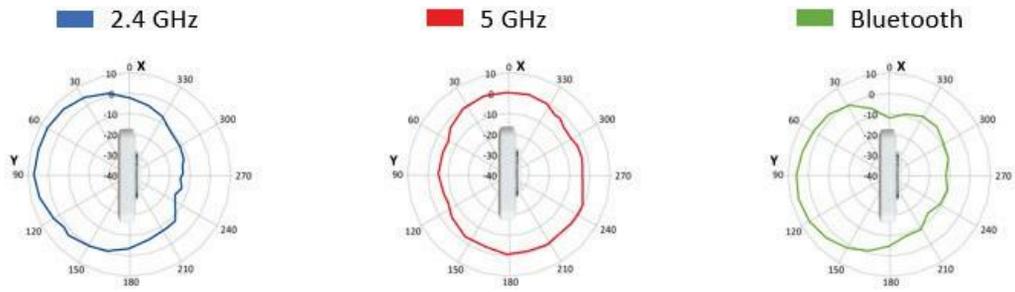
*2: Maximum power is limited by local regulatory requirements

*3: Some channels are restricted by local regulatory and certifications.

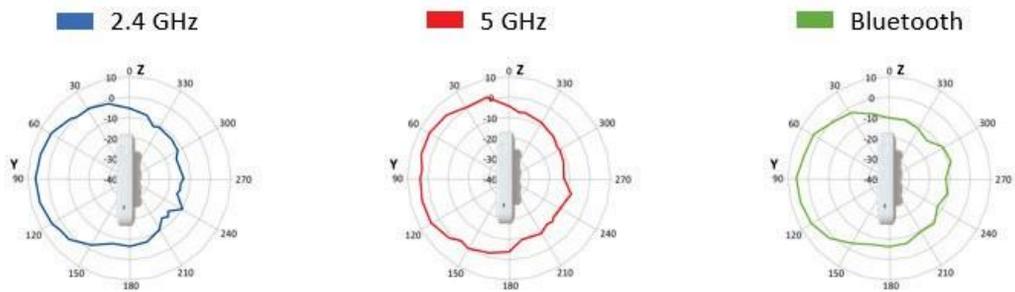
| PERFORMANCE | |
|---------------------------|---|
| Physical Data Rate | <ul style="list-style-type: none"> • Up to 574 Mbps (2.4 GHz) • Up to 2402 Mbps (5 GHz) |
| FEATURES | |
| Wireless | <ul style="list-style-type: none"> • 802.11 k/v/r • Orthogonal Frequency Division Multiple Access (OFDMA) • Client Isolation • BSS Coloring • Band Steering • Wi-Fi Enhanced Open (OWE) • Wireless Site Survey • Airtime Fairness • U-APSD • Interference Detection |
| 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 • Link Layer Discovery Protocol (LLDP) • Smart Isolation • IPv6 compatible • Proxy ARP |
| Security | <ul style="list-style-type: none"> • WPA-Personal (AES), WPA-Enterprise (AES) • WPA2-Personal (AES), WPA2-Enterprise (AES) • WPA3-Personal (AES), WPA3-Personal Transition (AES) • WPA3-Enterprise transition (AES), WPA3-Enterprise transition (AES) • Multi Pre-Shared Key (MPSK) • Dynamic Pre-Shared Key (DPSK) • MAC Address Authentication • L3 Firewall • OWE (Opportunistic Wireless Encryption) |
| Maintenance | <ul style="list-style-type: none"> • Network Time Protocol (NTP) • Standalone • Management by ecCLOUD • Management by ecCLOUD-VPC • Management by EWS/VEWS Series Controller (Complete tunnel/Split Tunnel) • SSH • SNMP v1/v2c/v3 • QR Code Onboarding • Remote Syslog • Discovery Tool • Zero Touch Provisioning (ZTP) |
| QoS | <ul style="list-style-type: none"> • RSSI Threshold (Optimal Client Filtering) • Multicast-to-Unicast Conversion • WME |
| Mobility | <ul style="list-style-type: none"> • OpenRoaming (Hotspot 2.0 R1) |
| Others | <ul style="list-style-type: none"> • Target Wake Time (TWT) • Hotspot Captive Portal • Dynamic Authorization (DAE) • iBeacon |

SIGNAL COVERAGE PATTERN

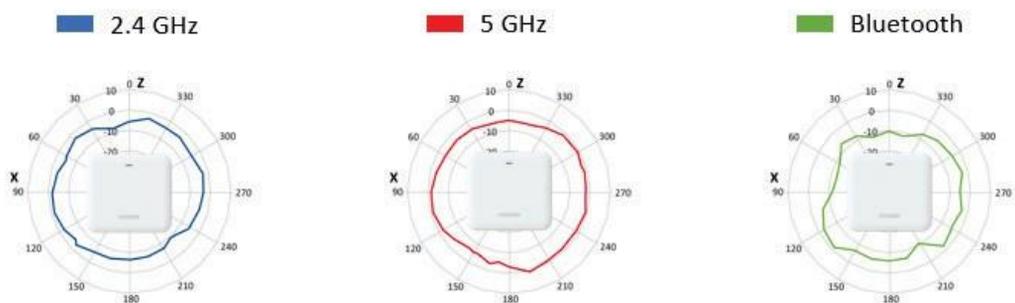
Azimuth



Elevation ZY



Elevation ZX



OPTIONAL ACCESSORIES

| Part Number | Description | Remark |
|---------------|--|------------------------------|
| FI2WLP111001E | EAP111 (WW) | Edgecore EAP111 |
| 131500000316A | Optional power adapter with changeable US / JP / EU / UK plugs | |
| 131500000258A | Optional US/JP power adapter | Quantities of 96 in a carton |
| 131500000259A | Optional EU power adapter | Quantities of 72 in a carton |
| 131500000262A | Optional UK power adapter | Quantities of 72 in a carton |
| 123400001540A | Optional metal pole mount bracket | |
| M0OWLP111001 | Optional metal wall-plate bracket | ICC-Bracket-111 |
| FINAC7212001X | Optional pole mount bracket and two hose clamps | ICC-BRACKET-WPM |