

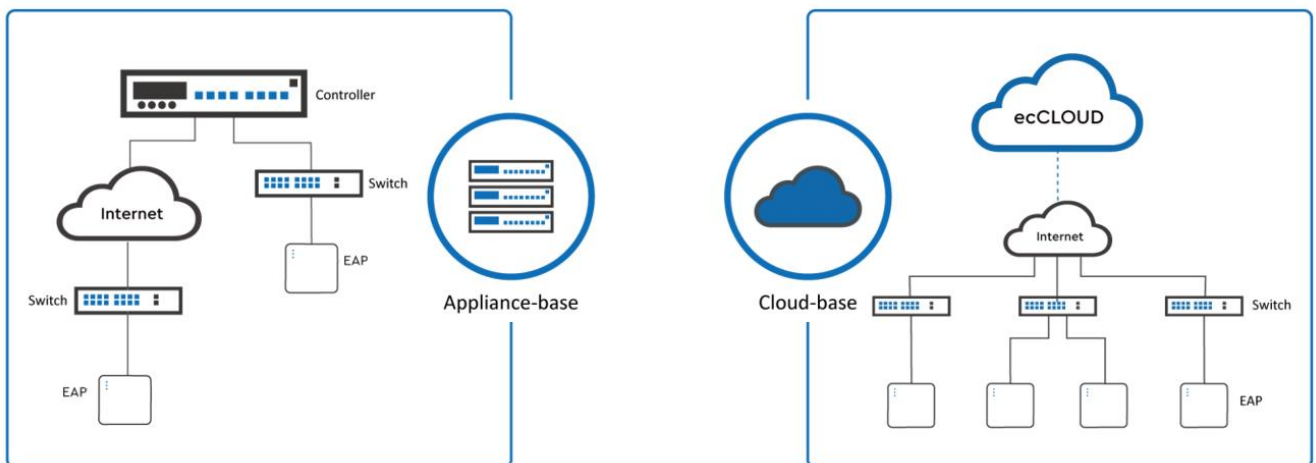
EAP111

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 3Gbps. Notably, EAP111 comes equipped with a Bluetooth Low Energy (BLE) radio and ZigBee, 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 up to 32 ESSIDs.
- Enterprise-Grade Wireless Security
- Bluetooth Low Energy (BLE) and ZigBee support
- IP55 rating

SPECIFICATIONS

PHYSICAL	
Power	<ul style="list-style-type: none"> DC Input: 12V / 2.0A (Power adapter not included) PoE: 802.3at 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), 4 dBi (BLE)
Mounting	<ul style="list-style-type: none"> Wall/Ceiling/T-bar mount (Mounting kit included), Pole mount (Mount 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"> 2.4GHz: 2 x 2 ; 5GHz: 2 x 3
Spatial Streams	<ul style="list-style-type: none"> 2; 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

*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**

- Up to 574 Mbps (2.4 GHz)
- Up to 2402 Mbps (5 GHz)

FEATURES**Wireless**

- 802.11 k/v/r
- Orthogonal Frequency Division Multiple Access (OFDMA)
- Client Isolation
- Open Mesh (not in the first release)
- BSS Coloring
- Band Steering
- Wi-Fi Enhanced Open (OWE)
- Wireless Site Survey

Network

- Spanning Tree Protocol (STP)
- Dynamic Host Configuration Protocol (DHCP)
- 802.1q
- Access Control List (ACL)
- Network Address Translation (NAT)

Security

- WPA-Personal (AES)
- WPA-Enterprise (AES)
- WPA2-Personal (AES)
- WPA2-Enterprise (AES)
- WPA3-Personal (AES)
- WPA3-Personal Transition (AES)
- WPA3-Enterprise transition (AES)
- L3 Firewall

Maintenance

- Network Time Protocol (NTP)
- Standalone
- Management by ecCLOUD
- Management by ecCLOUD-VPC
- Management by EWS/VEWS Series Controller (Complete tunnel/Split Tunnel)
- SSH
- QR Code Onboarding
- Remote Syslog
- Zero Touch Provisioning (ZTP)

QoS

- RSSI Threshold (Optimal Client Filtering)
- Multicast-to-Unicast Conversion
- WME

Others

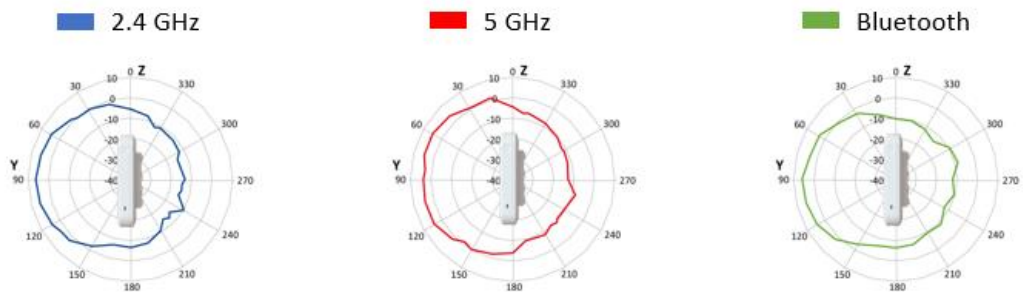
- Target Wake Time (TWT)
- iBeacon

SIGNAL COVERAGE PATTERN

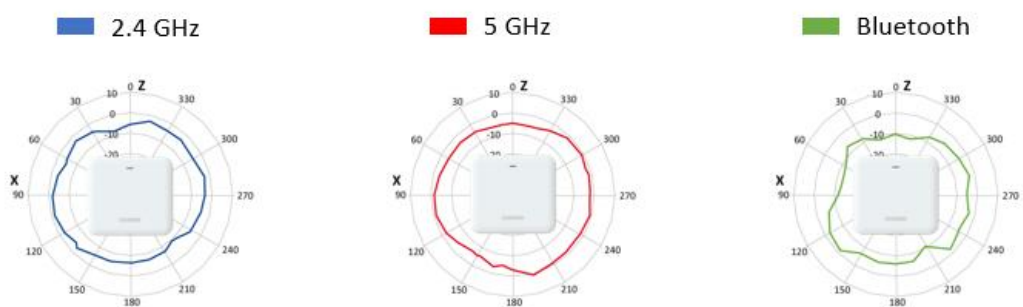
Azimuth



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
131500000206A	Optional POE29U-560	30W PSE Injector
123400001540A	Optional metal pole mount bracket	
125900000249A	Optional hose clamp	