

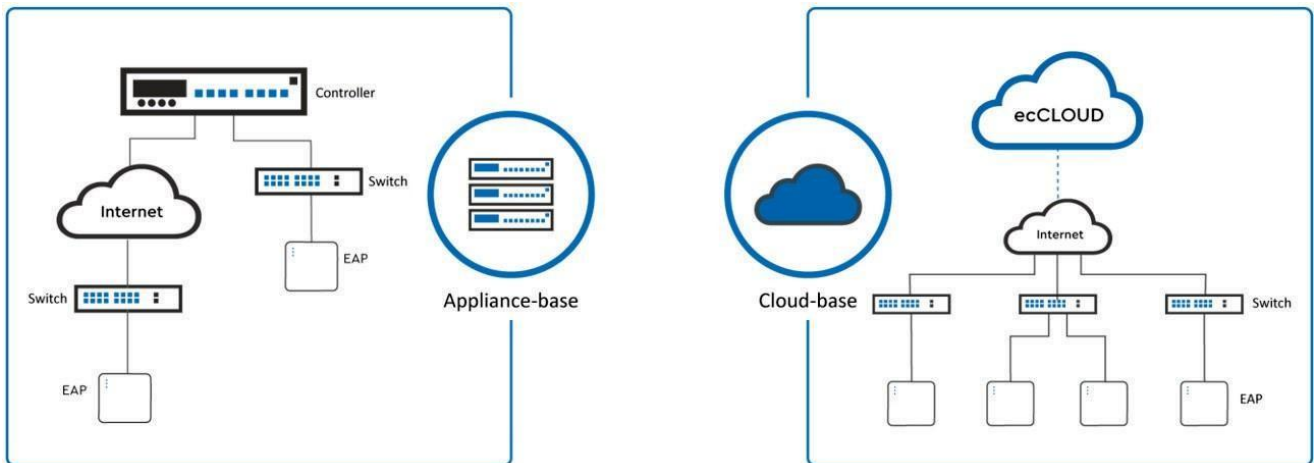
EAP105

INDOOR WI-FI 7 ACCESS POINT



INTRODUCTION

EAP105 stands as an enterprise-grade, concurrent tri-band Wi-Fi 7 access point featuring 320 MHz channel bandwidth, 4K-QAM, and low latency for superior speeds and high-density performance. Supporting 2x2:2 uplink and downlink MU-MIMO between the access point and multiple clients, EAP105 achieves an impressive aggregated data rate of up to 9.34 Gbps. Notably, EAP105 comes equipped with a Bluetooth Low Energy (BLE) radio and ZigBee, enabling the integration of value-added applications. Whether operating in standalone mode or under the management of Edgecore ecCLOUD, ecCLOUD-VPC, or EWS/VEWS Series controllers, EAP105 exemplifies versatility and high-performance connectivity.



HIGHLIGHTS

- Wi-Fi 7 2x2 uplink and downlink MU-MIMO with up to 9.34 Gbps data rate
- Enterprise-grade wireless security
- 4G/5G cellular coexistence interference filter
- Support for OpenRoaming
- Bluetooth Low Energy (BLE) and ZigBee support

SPECIFICATIONS

PHYSICAL	
Power	- DC Input: USBC power input (PD3.0; 15 ~ 20V; Power adapter not included) - PoE: 802.3at compliant (PoE injector not included)
Dimensions	179 mm (L) x 195 mm (W) x 35 mm (H)
Weight	0.907 kg
Interface	- Uplink: 1 x 100/1000/2500/5000Base-T Ethernet, Auto MDIX, RJ-45 with 802.3at PoE - LAN: 1 x 100/1000Base-T Ethernet, Auto MDIX, RJ-45
LED Indicator	1 tri-color LED: Power, Cloud Status, Uplink
Buttons	Restart / Reset
Environmental Conditions	- Operating Temperature: 0°C (32°F) to 50°C (122°F) - Operating Humidity: 5% to 95% non-condensing - Storage Temperature: -30°C (-22°F) to 70°C (158°F) - Storage Humidity: 5% to 95% non-condensing - IP41 Rating
Power Consumption	23.58 W max
Antenna	- Type: Built-in antenna - Gain: 5 dBi (2.4 GHz), 6 dBi (5 GHz), 6 dBi (6 GHz), 3.7 dBi (BLE)
Mounting	Wall/Wall-plate/Ceiling/T-bar mount (Mounting kit included)
Anti-theft	1 x Kensington lock slot
WI-FI	
Standards	802.11a/b/g/n/ac/ax/be (Wi-Fi 7) - Concurrent tri-band 2.4 GHz, 5 GHz, and 6 GHz
Supported Data Rates	802.11b: 1 to 11 Mbps 802.11a/g: 6 to 54 Mbps 802.11n: 6.5 to 300 Mbps (20 / 40 MHz) 802.11ac: 6.5 to 867 Mbps (20 / 40 / 80 MHz) 802.11ax: 7.3 to 2402 Mbps (20 / 40 / 80 / 160MHz) 802.11be: 7.3 to 5765 Mbps (20 / 40 / 80 / 160 / 320 MHz)
Radio Chains	2.4 GHz: 2 x 2 ; 5 GHz: 2 x 2; 6 GHz: 2 x 2
Spatial Streams	6 (2x2:2 at 2.4 GHz, 2x2:2 at 5 GHz, 2x2:2 at 6 GHz)
Aggregate Conducted Transmit Power*1	2.4 GHz: Up to 28 dBm*2 5 GHz: Up to 29 dBm*2 6 GHz: Up to 25 dBm*2
Channelization	2.4 GHz: 20 / 40 MHz 5 GHz: 20 / 40 / 80 / 160 MHz 6 GHz: 20 / 40 / 80 / 160 / 320 MHz
Frequency Range	2.401 – 2.483 GHz 5.170 – 5.835 GHz 5.925 – 7.125 GHz*3
Operating Channels	2.4 GHz: 1-11 (US), 1-13 (Europe, Japan) 5 GHz*3 : 36-165 (US), 36-140 (Europe), 36-144 (Japan) 6 GHz*3 : 1-233
ESSIDs	- Up to 16 per radio for 2.4 GHz, 5 GHz - Up to 2 per radio for 6 GHz
Certifications	FCC, IC, CE, TELEC, VCCI, NCC, BSMI, UKCA, UL2043 Plenum Rating

*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 688 Mbps (2.4 GHz)
- Up to 2882 Mbps (5 GHz)
- Up to 5765 Mbps (6 GHz)

FEATURES**Wireless**

- 802.11 k/v/r
- Orthogonal Frequency Division Multiple Access (OFDMA)
- Client Isolation
- Open Mesh
- BSS Coloring
- 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)
- Dynamic VLAN
- Link Layer Discovery Protocol (LLDP)
- Smart Isolation
- IPv6 compatible
- Proxy ARP

Security

- WPA-Personal (AES), WPA-Enterprise (AES)
- WPA2-Personal (AES), WPA2-Enterprise (AES),
- WPA3-Personal (AES), WPA3-Personal Transition (AES)
- WPA3-Enterprise (AES), WPA3-Enterprise transition (AES)
- Multi Pre-Shared Key (MPSK)
- Dynamic Pre-Shared Key (DPSK)
- MAC Address Authentication
- 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
- SNMP v1/v2c/v3
- Remote Syslog
- Discovery Tool
- Zero Touch Provisioning (ZTP)

QoS

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

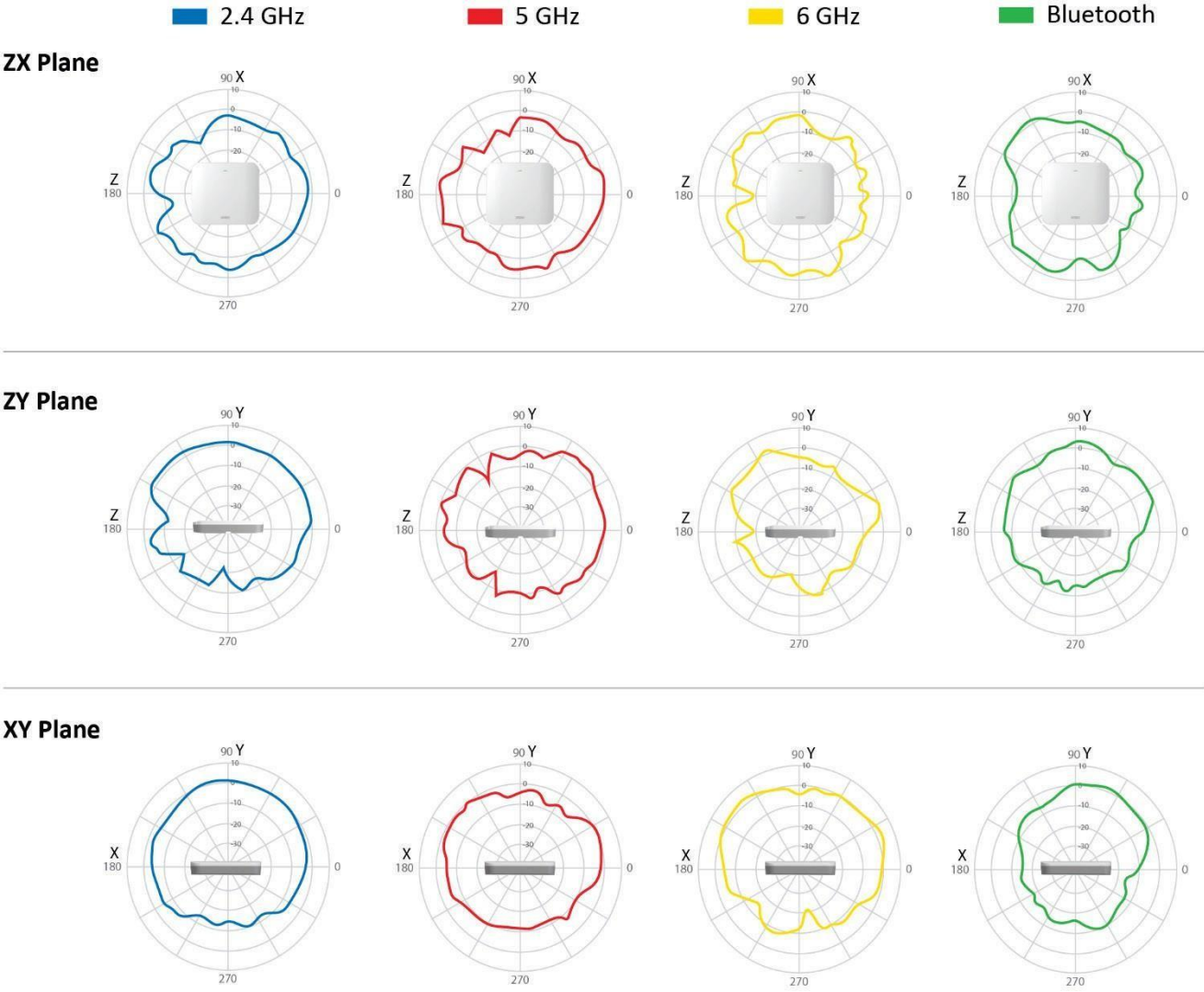
Mobility

- OpenRoaming (Hotspot 2.0 R1)

Others

- Target Wake Time (TWT)
- Hotspot Captive Portal
- Dynamic Authorization (DAE)

SIGNAL COVERAGE PATTERN



ORDERING INFORMATION

Part Number	Description	Remark
F12WL1050001S	EAP105 (WW)	Edgecore EAP105 for worldwide