

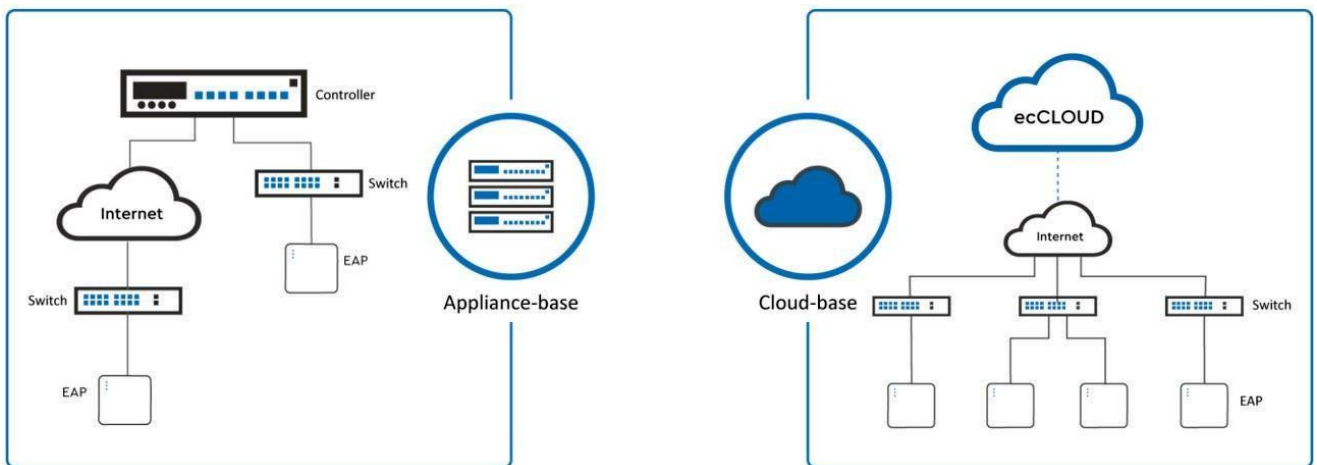
# EAP105

## 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**

<b>PHYSICAL</b>	
<b>Power</b>	<ul style="list-style-type: none"> <li>DC Input: USBC power input (PD3.0; 15 ~ 20V; Power adapter not included)</li> <li>PoE: 802.3at compliant (PoE injector not included)</li> </ul>
<b>Dimensions</b>	<ul style="list-style-type: none"> <li>179 mm (L) x 195 mm (W) x 35 mm (H)</li> </ul>
<b>Weight</b>	<ul style="list-style-type: none"> <li>0.907 kg</li> </ul>
<b>Interface</b>	<ul style="list-style-type: none"> <li>Uplink: 1 x 100/1000/2500/5000Base-T Ethernet, Auto MDIX, RJ-45 with 802.3at PoE</li> <li>LAN: 1 x 100/1000Base-T Ethernet, Auto MDIX, RJ-45</li> </ul>
<b>LED Indicator</b>	<ul style="list-style-type: none"> <li>1 tri-color LED: Power, Cloud Status, Uplink</li> </ul>
<b>Buttons</b>	<ul style="list-style-type: none"> <li>Restart / Reset</li> </ul>
<b>Environmental Conditions</b>	<ul style="list-style-type: none"> <li>Operating Temperature: 0°C (32°F) to 50°C (122°F)</li> <li>Operating Humidity: 5% to 95% non-condensing</li> <li>Storage Temperature: -30°C (-22°F) to 70°C (158°F)</li> <li>Storage Humidity: 5% to 95% non-condensing</li> <li>IP41 Rating</li> </ul>
<b>Power Consumption</b>	<ul style="list-style-type: none"> <li>23.58 W max</li> </ul>
<b>Antenna</b>	<ul style="list-style-type: none"> <li>Type: Built-in antenna</li> <li>Gain: 5 dBi (2.4 GHz), 6 dBi (5 GHz), 6 dBi (6 GHz), 3.7 dBi (BLE)</li> </ul>
<b>Mounting</b>	<ul style="list-style-type: none"> <li>Wall/Wall-plate/Ceiling/T-bar mount (Mounting kit included)</li> </ul>
<b>Anti-theft</b>	<ul style="list-style-type: none"> <li>1 x Kensington lock slot</li> </ul>
<b>WI-FI</b>	
<b>Standards</b>	<ul style="list-style-type: none"> <li>802.11a/b/g/n/ac/ax/be (Wi-Fi 7)</li> <li>Concurrent tri-band 2.4 GHz, 5 GHz, and 6 GHz</li> </ul>
<b>Supported Data Rates</b>	<ul style="list-style-type: none"> <li>802.11b: 1 to 11 Mbps</li> <li>802.11a/g: 6 to 54 Mbps</li> <li>802.11n: 6.5 to 300 Mbps (20 / 40 MHz)</li> <li>802.11ac: 6.5 to 867 Mbps (20 / 40 / 80 MHz)</li> <li>802.11ax: 7.3 to 2402 Mbps (20 / 40 / 80 / 160MHz)</li> <li>802.11be: 7.3 to 5765 Mbps (20 / 40 / 80 / 160 / 320 MHz)</li> </ul>
<b>Radio Chains</b>	<ul style="list-style-type: none"> <li>2.4 GHz: 2 x 2 ; 5 GHz: 2 x 2; 6 GHz: 2 x 2</li> </ul>
<b>Spatial Streams</b>	<ul style="list-style-type: none"> <li>6 (2x2:2 at 2.4 GHz, 2x2:2 at 5 GHz, 2x2:2 at 6 GHz)</li> </ul>
<b>Aggregate Conducted Transmit Power*1</b>	<ul style="list-style-type: none"> <li>2.4 GHz: Up to 28 dBm*2</li> <li>5 GHz: Up to 29 dBm*2</li> <li>6 GHz: Up to 25 dBm*2</li> </ul>
<b>Channelization</b>	<ul style="list-style-type: none"> <li>2.4 GHz: 20 / 40 MHz</li> <li>5 GHz: 20 / 40 / 80 / 160 MHz</li> <li>6 GHz: 20 / 40 / 80 / 160 / 320 MHz</li> </ul>
<b>Frequency Range</b>	<ul style="list-style-type: none"> <li>2.401 – 2.483 GHz</li> <li>5.170 – 5.835 GHz</li> <li>5.925 – 7.125 GHz*3</li> </ul>
<b>Operating Channels</b>	<ul style="list-style-type: none"> <li>2.4 GHz: 1-11 (US), 1-13 (Europe, Japan)</li> <li>5 GHz*3 : 36-165 (US), 36-140 (Europe), 36-144 (Japan)</li> <li>6 GHz*3 : 1-233</li> </ul>
<b>ESSIDs</b>	<ul style="list-style-type: none"> <li>Up to 16 per radio for 2.4 GHz, 5 GHz</li> <li>Up to 2 per radio for 6 GHz</li> </ul>
<b>Certifications</b>	<ul style="list-style-type: none"> <li>FCC, IC, CE, TELEC, VCCI, NCC, BSMI, UKCA, UL2043 Plenum Rating</li> </ul>

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

\*2: Maximum power is limited by local regulatory requirements

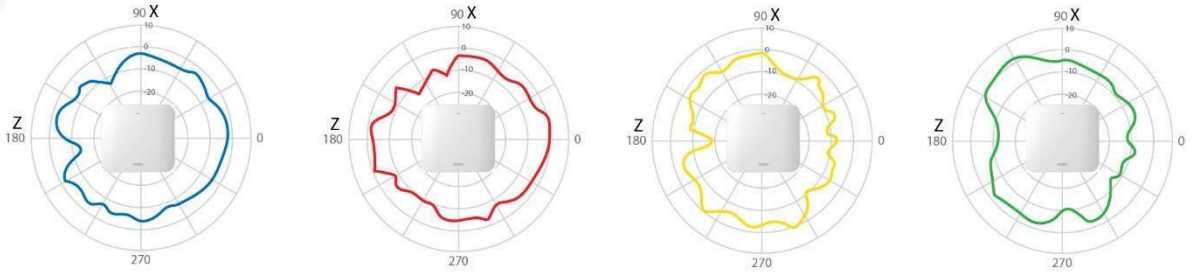
\*3: Some channels are restricted by local regulatory and certifications.

PERFORMANCE	
<b>Physical Data Rate</b>	<ul style="list-style-type: none"> <li>• Up to 688 Mbps (2.4 GHz)</li> <li>• Up to 2882 Mbps (5 GHz)</li> <li>• Up to 5765 Mbps (6 GHz)</li> </ul>
FEATURES	
<b>Wireless</b>	<ul style="list-style-type: none"> <li>• 802.11 k/v/r</li> <li>• Orthogonal Frequency Division Multiple Access (OFDMA)</li> <li>• Client Isolation</li> <li>• Open Mesh</li> <li>• BSS Coloring</li> <li>• * Band Steering: 2.4GHz &amp; 5GHz only. 6GHz: Will release in June, 2025</li> <li>• Wi-Fi Enhanced Open (OWE)</li> <li>• Wireless Site Survey</li> <li>• * Preamble Puncturing: : Will release in June, 2025</li> <li>• * MLO: Will release in June, 2025</li> </ul>
<b>Network</b>	<ul style="list-style-type: none"> <li>• Spanning Tree Protocol (STP)</li> <li>• Dynamic Host Configuration Protocol (DHCP)</li> <li>• * DHCP Relay: : Will release in May, 2025</li> <li>• 802.1q</li> <li>• Access Control List (ACL)</li> <li>• Network Address Translation (NAT)</li> <li>• Dynamic VLAN</li> <li>• Link Layer Discovery Protocol (LLDP)</li> <li>• Smart Isolation</li> <li>• IPv6 compatible</li> <li>• Proxy ARP</li> <li>• * RSTP: : Will release in May, 2025</li> <li>• * Radio Resource Management: Will release in May, 2025</li> </ul>
<b>Security</b>	<ul style="list-style-type: none"> <li>• WPA-Personal (AES), WPA-Enterprise (AES)</li> <li>• WPA2-Personal (AES), WPA2-Enterprise (AES),</li> <li>• WPA3-Personal (AES), WPA3-Personal Transition (AES)</li> <li>• WPA3-Enterprise (AES), WPA3-Enterprise transition (AES)</li> <li>• Multi Pre-Shared Key (MPSK)</li> <li>• Dynamic Pre-Shared Key (DPSK)</li> <li>• MAC Address Authentication</li> <li>• * DHCP Snooping: : Will release in May, 2025</li> <li>• * ARP Inspection: : Will release in May, 2025</li> <li>• L3 Firewall</li> </ul>
<b>Maintenance</b>	<ul style="list-style-type: none"> <li>• Network Time Protocol (NTP)</li> <li>• Standalone</li> <li>• Management by ecCLOUD</li> <li>• Management by ecCLOUD-VPC</li> <li>• Management by EWS/VEWS Series Controller (Complete tunnel/Split Tunnel)</li> <li>• SSH</li> <li>• SNMP v1/v2c/v3</li> <li>• Remote Syslog</li> <li>• Discovery Tool</li> <li>• Zero Touch Provisioning (ZTP)</li> </ul>
<b>QoS</b>	<ul style="list-style-type: none"> <li>• RSSI Threshold (Optimal Client Filtering)</li> <li>• Multicast-to-Unicast Conversion</li> <li>• WME</li> </ul>
<b>Mobility</b>	<ul style="list-style-type: none"> <li>* OpenRoaming (Hotspot 2.0 R1): 2.4GHz &amp; 5GHz only. 6GHz: Will release in June, 2025</li> </ul>
<b>Others</b>	<ul style="list-style-type: none"> <li>• Target Wake Time (TWT)</li> <li>• Hotspot Captive Portal</li> <li>• Dynamic Authorization (DAE)</li> <li>• * BLE/Zigbee/Thread: Will release in May, 2025</li> </ul>

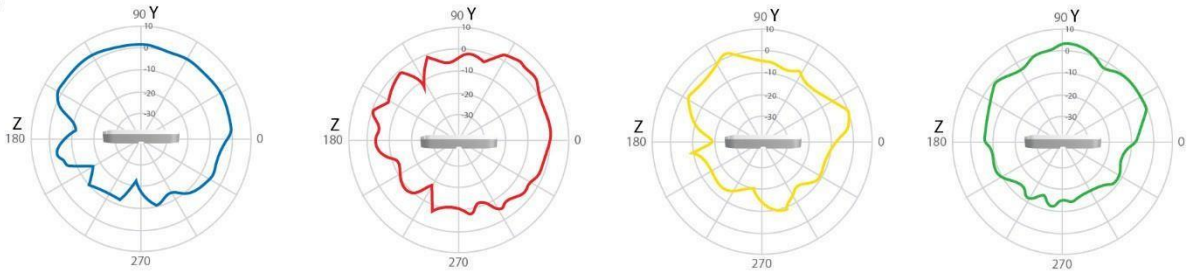
**SIGNAL COVERAGE PATTERN**

■ 2.4 GHz     
 ■ 5 GHz     
 ■ 6 GHz     
 ■ Bluetooth

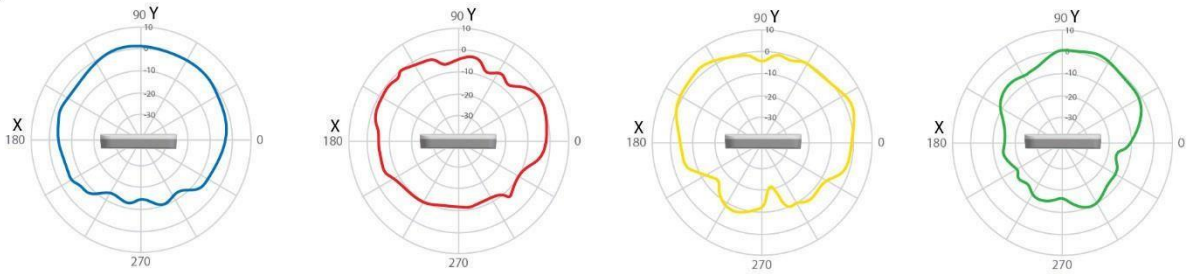
**ZX Plane**



**ZY Plane**



**XY Plane**



**ORDERING INFORMATION**

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