

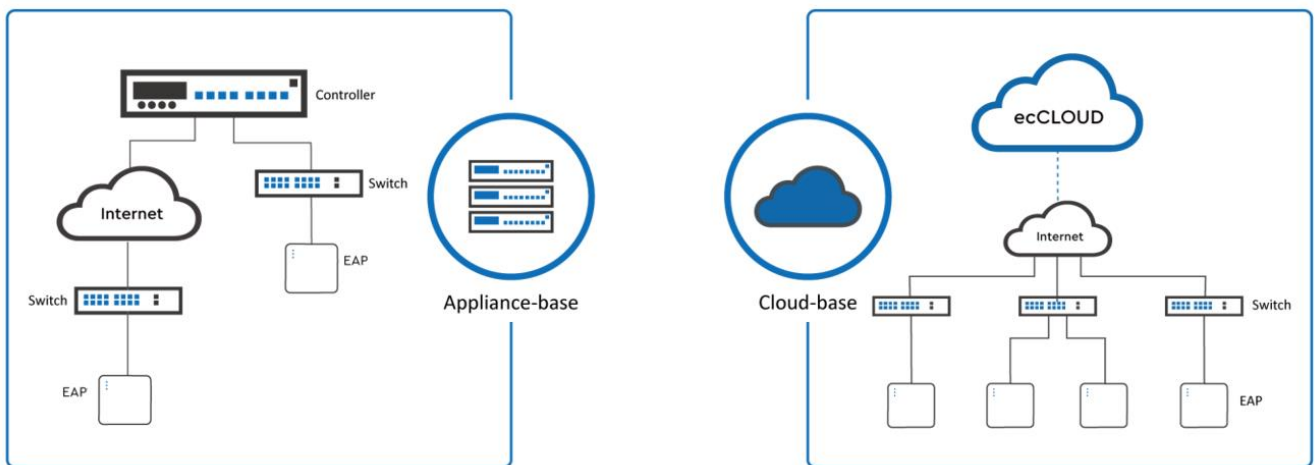


EAP105

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, low latency, and Multi-Link Operation (MLO) 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 9.34Gbps. Notably, EAP105 comes equipped with a Bluetooth Low Energy (BLE) radio and ZigBee, enabling the integration of value-added applications such as iBeacon and matter application. 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 up to 48 ESSIDs
- Bluetooth Low Energy (BLE) and ZigBee support

SPECIFICATIONS

PHYSICAL	
Power	<ul style="list-style-type: none"> DC Input: USBC power input (PD3.0; 15V/20V; Power adapter not included) PoE: 802.3at compliant (PoE injector not included)
Dimensions	<ul style="list-style-type: none"> est. 179 mm (L) x 195 mm (W) x 35 mm (H)
Weight	<ul style="list-style-type: none"> est. 1.3 kg
Interface	<ul style="list-style-type: none"> Uplink: 1 x 1/2.5/5GbE Base-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 50°C (122°F) Operating Humidity: 5% to 95% non-condensing
Power Consumption	<ul style="list-style-type: none"> 23.58 W max
Antenna	<ul style="list-style-type: none"> Type: Built-in antenna Gain: 5 dBi (2.4 GHz), 6 dBi (5 GHz), 6 dBi (6 GHz), 4.78 dBi (BLE)
Mounting	<ul style="list-style-type: none"> Wall/Wall-plate/Ceiling (Mounting kit included)
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/be (Wi-Fi 7) Concurrent tri-band 2.4 & 5 GHz & 6GHz
Supported Data Rates	<ul style="list-style-type: none"> 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 5865 Mbps (20 / 40 / 80 / 160 / 320 MHz)
Radio Chains	<ul style="list-style-type: none"> 2.4GHz: 2 x 2 ; 5GHz: 2 x 2; 6GHz: 2 x 2
Spatial Streams	<ul style="list-style-type: none"> 6 (2x2:2 at 2.4GHz, 2x2:2 at 5GHz, 2x2:2 at 6GHz)
Aggregate Conducted Transmit Power*¹	<ul style="list-style-type: none"> 2.4 GHz: Up to 23 dBm*² 5 GHz: Up to 21 dBm*² 6 GHz: Up to 21 dBm*²
Channelization	<ul style="list-style-type: none"> 2.4 GHz: 20 / 40 MHz 5 GHz: 20 / 40 / 80 / 160 MHz 6 GHz: 20 / 40 / 80 / 160 / 320 MHz
Frequency Range	<ul style="list-style-type: none"> 2.401 – 2.483 GHz 5.170 – 5.835 GHz 5.925 – 7.125 GHz*³
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) 6 GHz*³: 1-233
ESSIDs	<ul style="list-style-type: none"> Up to 16 per radio (48 in total)
Certifications	<ul style="list-style-type: none"> TBD (FCC, IC, CE, TELEC, VCCI, NCC, BSMI under test)

*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 688 Mbps (2.4 GHz) • Up to 2882 Mbps (5 GHz) • Up to 5765 Mbps (6 GHz)
FEATURES	
Wireless	<ul style="list-style-type: none"> • 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 • Multi-link Operation (MLO) • Preamble Puncturing
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)
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) • L3 Firewall
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 • QR Code Onboarding • Remote Syslog • Zero Touch Provisioning (ZTP)
QoS	<ul style="list-style-type: none"> • RSSI Threshold (Optimal Client Filtering) • Multicast-to-Unicast Conversion • WME
Others	<ul style="list-style-type: none"> • Target Wake Time (TWT) • iBeacon • Matter & Thread