

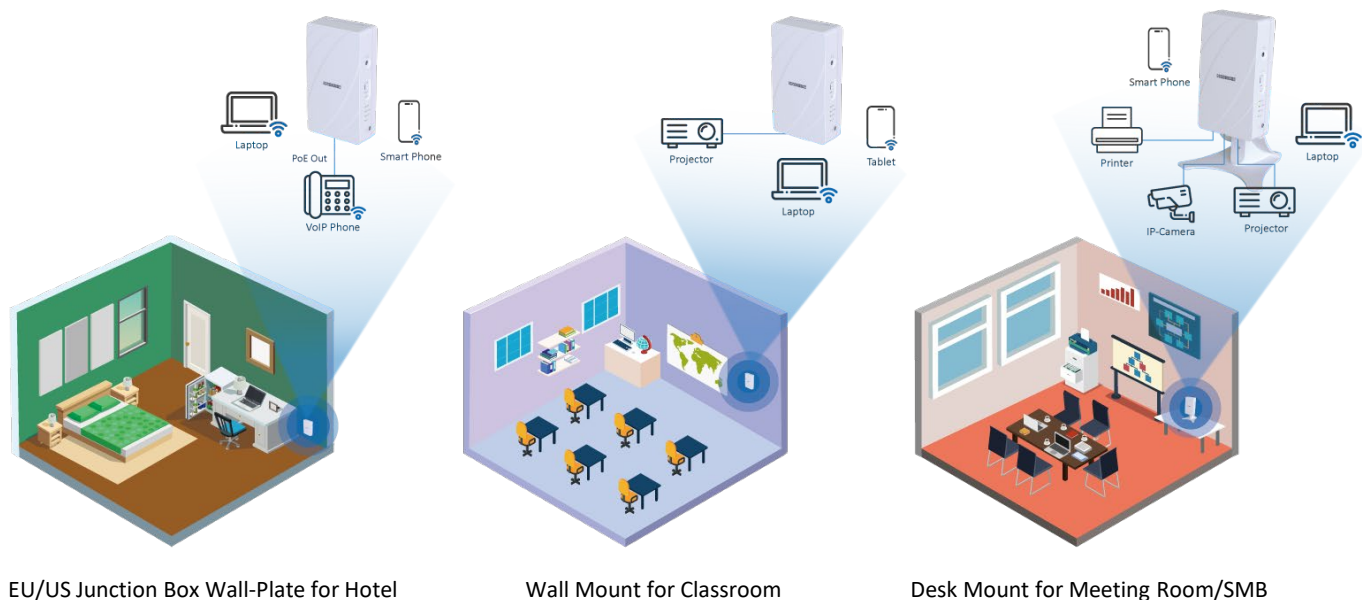
EAP104

INDOOR Wall-Plate Wi-Fi 6 ACCESS POINT



INTRODUCTION

The EAP104 is an enterprise-grade, concurrent dual-band Wi-Fi 6 indoor wall-plate access point for hospitality, apartment buildings, or MDUs. The EAP104 supports 2x2:2 uplink and downlink MU-MIMO between the AP and multiple clients, with up to 3 Gbps aggregated data rate. The EAP104 is equipped with Bluetooth Low Energy (BLE) radio and ZigBee, enabling value-added applications such as iBeacon. The EAP104 can be operated in a standalone mode or managed by Edgecore ecCLOUD, ecCLOUD-VPC, or an EWS-Series controller.



HIGHLIGHTS

- Wi-Fi 6 2x2 uplink and downlink MU-MIMO with up to 3 Gbps data rate
- 1 uplink port, 4 LAN ports, plus 1 pass-through port
- Supports up to 32 ESSIDs
- Enterprise-grade wireless security
- Bluetooth Low Energy (BLE) and ZigBee support
- PoE Out in an AP

SPECIFICATIONS

PHYSICAL	
Power	<ul style="list-style-type: none"> DC Input: 12V / 2.0A (power adapter optional) PoE: 802.3at/af compliant (PoE injector optional)
Dimensions	<ul style="list-style-type: none"> 160.5 mm (L) x 89.5 mm (W) x 34 mm (H)
Weight	<ul style="list-style-type: none"> 0.45 kg
Interfaces	<ul style="list-style-type: none"> Uplink: 1 x 10/100/1000Base-T Ethernet, Auto MDIX, RJ-45 with standard PoE input LAN: 4 x 10/100/1000Base-T Ethernet, Auto MDIX, RJ-45 (LAN4 supports 802.3af PoE out up to 10W while the system is powered by 802.3at) Pass-Thru: 1 x pass-through port from rear to bottom Console: 1 x Micro-USB port
Buttons	<ul style="list-style-type: none"> Restart / Reset
LED Indicator	<ul style="list-style-type: none"> Power, Cloud Status, 5G-WiFi, 2.4G-WiFi, Uplink
Restart / Reset	<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
Power Consumption	<ul style="list-style-type: none"> 12.9W max.
Antenna	<ul style="list-style-type: none"> Type: 5 x Built-in antenna (2 x 2.4 GHz, 2 x 5 GHz, 1 x BLE) Gain: 3.9 dBi (2.4 GHz), 5.2 dBi (5 GHz), 4 dBi (BLE)
Mounting	<ul style="list-style-type: none"> Wall-plate (standard bracket), wall mount (standard bracket), desktop (optional stand)
Anti-theft	<ul style="list-style-type: none"> 1 x screw lock
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 x 2
Spatial Streams	<ul style="list-style-type: none"> 2; Uplink and downlink MU-MIMO support
Aggregate Conducted Transmit Power¹	<ul style="list-style-type: none"> 2.4 GHz: 22 dBm² 5 GHz: 22 dBm²
Channelization	<ul style="list-style-type: none"> 2.4 GHz: 20, 40 MHz 5 GHz: 20, 40, 80, 160Mhz
Frequency Range	<ul style="list-style-type: none"> 2.401 – 2.483 GHz³ 5.170 – 5.835 GHz³
Operating Channels	<ul style="list-style-type: none"> 2.4G: 1 – 11 (US), 1 – 13 (Europe, Japan) 5 GHz³: 36 – 165 (US), 36 – 140 (Europe), 36 – 144 (Japan)

ESSIDs	<ul style="list-style-type: none"> Up to 16 per radio (32 total)
Certifications	<ul style="list-style-type: none"> FCC, IC, CE, TELEC, NCC, BSMI

1: Aggregated across MIMO chains and does not contain antenna gain.
 2: Maximum power is limited by local regulatory requirements.
 3: Bands and channels are restricted by local regulatory requirements. Refer to latest certificates for details.

PERFORMANCE

Physical Data Rate	<ul style="list-style-type: none"> Up to 574 Mbps (2.4 GHz) Up to 2402 Mbps (5 GHz)
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FEATURES

Wireless	<ul style="list-style-type: none"> 802.11 k/r Orthogonal Frequency Division Multiple Access (OFDMA) Client Isolation Open Mesh BSS Coloring Band Steering Wi-Fi Enhanced Open (OWE) Wireless Site Survey
Network	<ul style="list-style-type: none"> Spanning Tree Protocol (STP) Dynamic Host Configuration Protocol (DHCP) DHCP Relay 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 (AES) WPA3-Enterprise transition (AES) Multi Pre-Shared Key (MPSK) MAC Address Authentication DHCP Snooping ARP Inspection L3 Firewall

FEATURES	
Maintenance	<ul style="list-style-type: none"> • Network Time Protocol (NTP) • Standalone • Management by ecCLOUD • Management by ecCLOUD-VPC • Management by EWS-Series Controller (Complete Tunnel/Split Tunnel) • SSH • QR Code Onboarding • SNMP v2c • Remote Syslog • Discovery Tool • Zero Touch Provisioning (ZTP)
QoS	<ul style="list-style-type: none"> • RSSI Threshold (Optimal Client Filtering) • Multicast-to-Unicast Conversion
Mobility	<ul style="list-style-type: none"> • Hotspot 2.0 R1
Others	<ul style="list-style-type: none"> • Target Wake Time (TWT) • iBeacon • Hotspot Captive Portal • Dynamic Authorization (DAE)

AI-ENABLED DETECTION ⁴	
Internet (WAN)	<ul style="list-style-type: none"> • Throughput (Up/Down) • Packet Drops • Roundtrip Latency • Usage
Wi-Fi Connection/ Experience	<ul style="list-style-type: none"> • DHCP Exchanges • EAP Failures • Slow Connectivity • Connection Drops • Poor Signal • Beacon Miss • Steering Efficiency • AP Stability • Wrong Key • Inactivity • Radio Congestion • Wi-Fi Latency • Hogging Airtime
Wi-Fi Roaming	<ul style="list-style-type: none"> • Poor AP Selection • Poor Overlap • AP Slow Response • Sticky Client • Slow Roaming
Application	<ul style="list-style-type: none"> • Reachability • Upstream Health • Downstream Health

4: When managed by ecCLOUD with the Aprecomm VWE (Virtual Wireless Expert) AI solution enabled

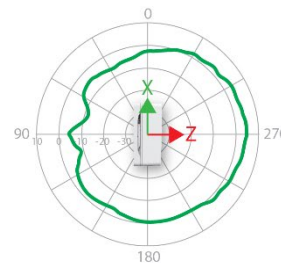
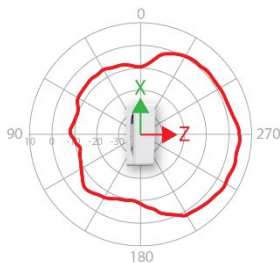
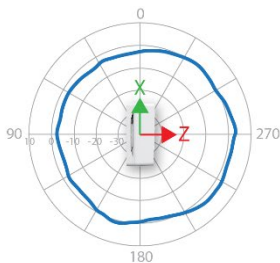
SIGNAL COVERAGE PATTERN

Azimuth

■ 2.4 GHz

■ 5 GHz

■ Bluetooth

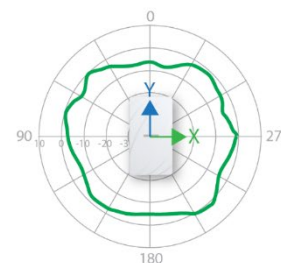
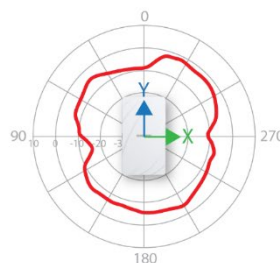
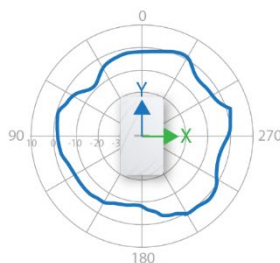


Elevation

■ 2.4 GHz

■ 5 GHz

■ Bluetooth



OPTIONAL ACCESSORIES

Part Number	Description	Remark
13150000338	Power adapter with US/JP, EU, UK, AU plugs.	Sold in quantities of 10 per box
123400002643A	Desktop stand bracket	Sold in quantities of 10 per box