

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.



EU/US Junction Box Wall-Plate for Hotel



Wall Mount for Classroom



Desk Mount for Meeting Room/SMB

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"> Est. 160.5 mm (L) x 89.5 mm (W) x 34 mm (H)
Weight	<ul style="list-style-type: none"> Est. 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"> Est. 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 GHz²: 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, VCCI, NCC, BSMI, UKCA, UL2043 Plenum Rating

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)

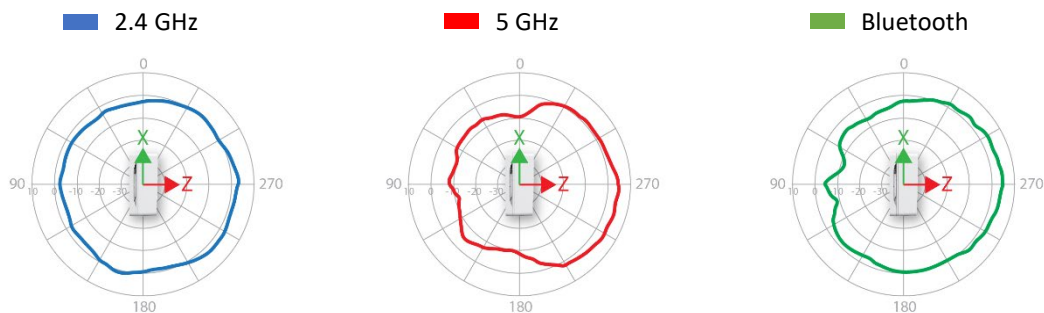
AI-ENABLED DETECTION⁴

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

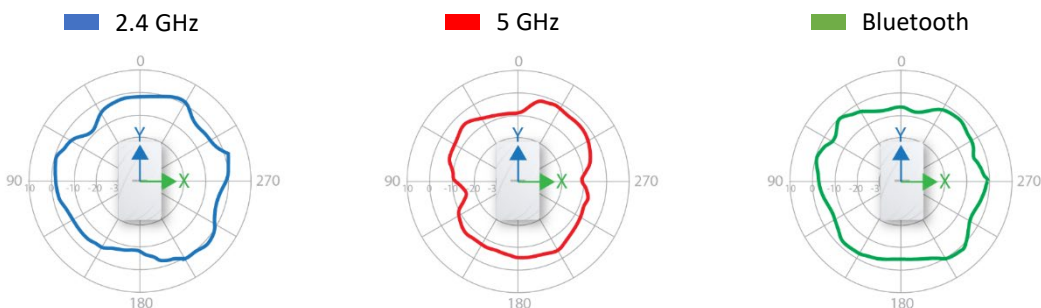
4: When managed by ecCLOUD with the Aprecomm VWE (Virtual Wireless Expert) AI solution enabled

SIGNAL COVERAGE PATTERN

Azimuth



Elevation



OPTIONAL ACCESSORIES

Part Number	Description	Remark
131500000338	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
131500000258A	US/JP power adapter	Quantities of 96 in a carton
131500000259A	EU power adapter	Quantities of 72 in a carton
131500000262A	UK power adapter	Quantities of 72 in a carton