

EAP104/EAP104 Lite

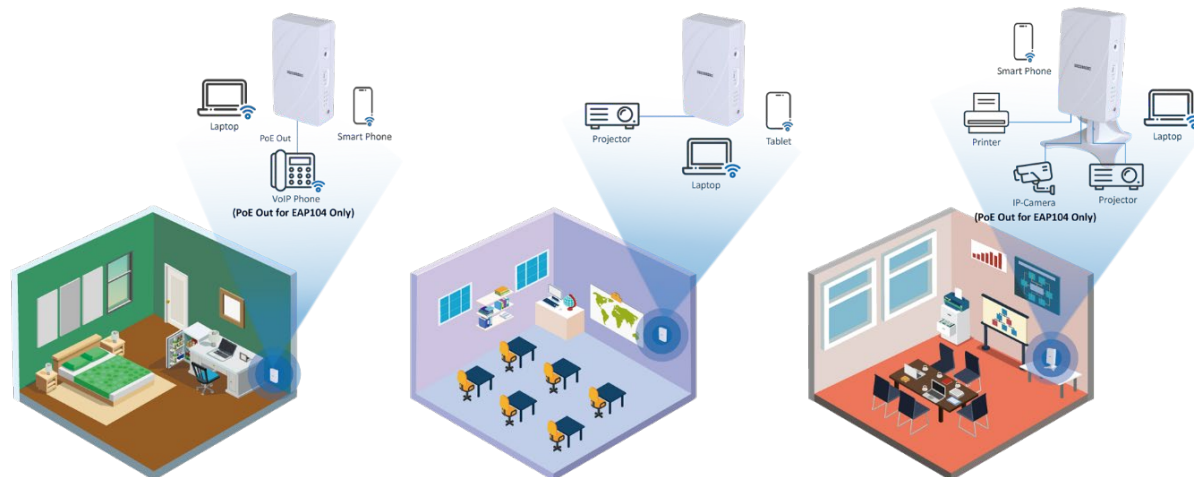
INDOOR WALL-PLATE WI-FI 6 ACCESS POINT



INTRODUCTION

The EAP104 and its compact counterpart, the EAP104 Lite, are enterprise-grade, concurrent dual-band Wi-Fi 6 indoor wall-plate access points 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 a Bluetooth Low Energy (BLE)* radio, ZigBee*, and pass-through capabilities, enabling value-added applications such as iBeacon, and providing versatile wired and wireless connectivity. For those seeking a more streamlined solution, the EAP104 Lite maintains the impressive connectivity and speed of the EAP104 in a lighter package. Ideal for MSPs delivering managed services, it's a thoughtful alternative that doesn't compromise on performance.

The EAP104 and EAP104 Lite can be operated in a standalone mode or managed by Edgecore's ecCLOUD, ecCLOUD-VPC, or EWS-Series controllers.



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
- Enterprise-grade wireless security
- Bluetooth Low Energy (BLE) and ZigBee support*
- PoE Out in an AP*

*EAP104 Lite does not support BLE/Zigbee and PoE out hardware features

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"> 12.9 W 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

*EAP104 Lite does not support BLE/Zigbee and PoE out hardware features

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 GHz • 5.170 – 5.835 GHz
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, 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)
---------------------------	-----------------------------------------------------------------------------------------------------------------

FEATURES

Wireless	<ul style="list-style-type: none"> • 802.11 k/v/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) • Dynamic Pre-Shared Key (DPSK) • 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 v1/v2c/v3 • Remote Syslog • Discovery Tool • Zero Touch Provisioning (ZTP)
QoS	<ul style="list-style-type: none"> • RSSI Threshold (Optimal Client Filtering) • Multicast-to-Unicast Conversion • WME
Mobility	<ul style="list-style-type: none"> • OpenRoaming (Hotspot 2.0 R1)
Others	<ul style="list-style-type: none"> • Target Wake Time (TWT) • iBeacon • Hotspot Captive Portal • Dynamic Authorization (DAE)

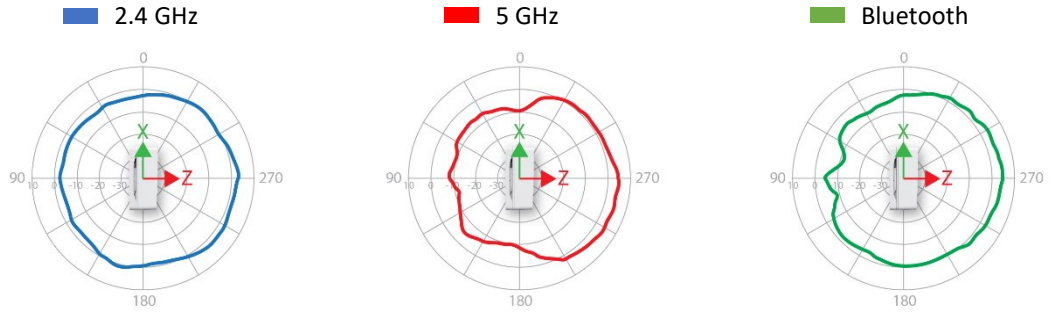
AI-ENABLED DETECTION⁴

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

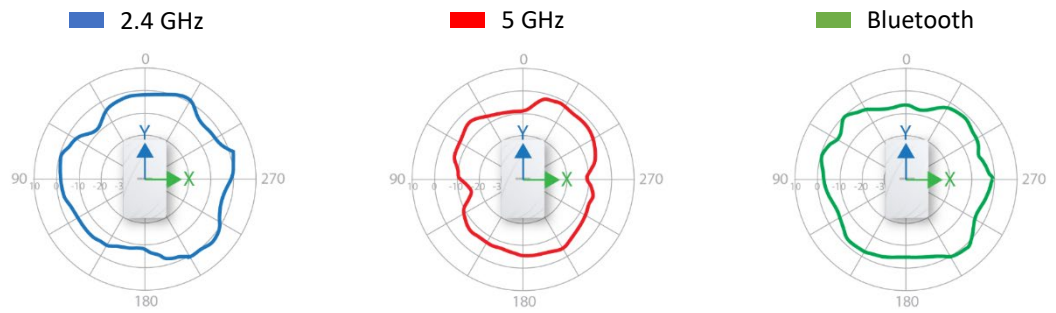
4: When managed by ecCLOUD with the Aprecomm VWE (Virtual Wireless Expert) AI solution enabled.

SIGNAL COVERAGE PATTERN

Azimuth



Elevation



ORDERING INFORMATION

Part Number	Description	Remark
FIKECP104003E	EAP104 (WL)	EAP104 Lite does not support BLE/Zigbee and PoE out hardware features
123400002643A	Optional desktop stand bracket	Sold in quantities of 10 per box
131500000258A	Optional US/JP power adapter	Quantities of 96 in a carton
131500000259A	Optional EU power adapter	Quantities of 72 in a carton
131500000262A	Optional UK power adapter	Quantities of 72 in a carton
131500000338	Optional power adapter with US/JP, EU, UK, AU plugs	Sold in quantities of 10 per box