

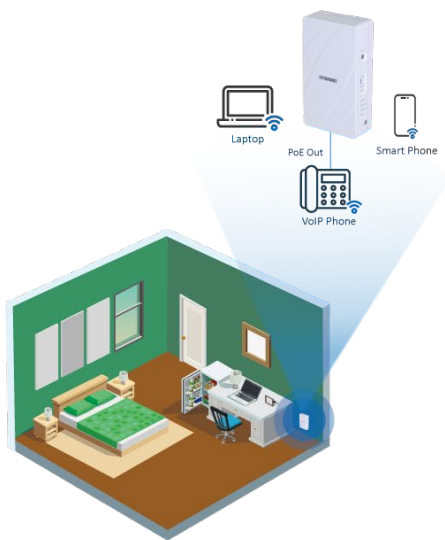
# EAP104

## INDOOR Wall-Plate Wi-Fi 6 ACCESS POINT

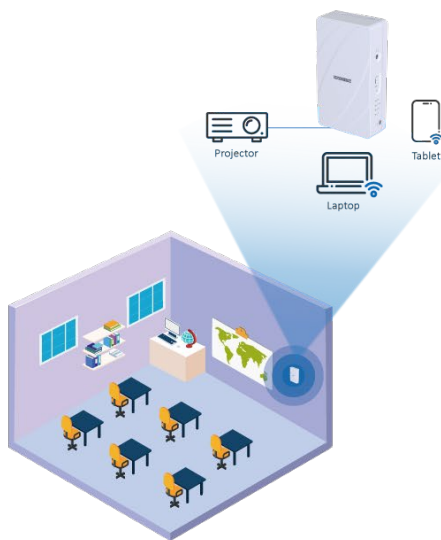


### INTRODUCTION

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	
<b>Power</b>	<ul style="list-style-type: none"> <li>DC Input: 12V / 2.0A (power adapter optional)</li> <li>PoE: 802.3at/af compliant (PoE injector optional)</li> </ul>
<b>Dimensions</b>	<ul style="list-style-type: none"> <li>160.5 mm (L) x 89.5 mm (W) x 34 mm (H)</li> </ul>
<b>Weight</b>	<ul style="list-style-type: none"> <li>0.45 kg</li> </ul>
<b>Interfaces</b>	<ul style="list-style-type: none"> <li>Uplink: 1 x 10/100/1000Base-T Ethernet, Auto MDIX, RJ-45 with standard PoE input</li> <li>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)</li> <li>Pass-Thru: 1 x pass-through port from rear to bottom</li> <li>Console: 1 x Micro-USB port</li> </ul>
<b>Buttons</b>	<ul style="list-style-type: none"> <li>Restart / Reset</li> </ul>
<b>LED Indicator</b>	<ul style="list-style-type: none"> <li>Power, Cloud Status, 5G-WiFi, 2.4G-WiFi, Uplink</li> </ul>
<b>Restart / Reset</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 45°C (113°F)</li> <li>Operating Humidity: 5% to 95% non-condensing</li> </ul>
<b>Power Consumption</b>	<ul style="list-style-type: none"> <li>12.9W max.</li> </ul>
<b>Antenna</b>	<ul style="list-style-type: none"> <li>Type: 5 x Built-in antenna (2 x 2.4 GHz, 2 x 5 GHz, 1 x BLE)</li> <li>Gain: 3.9 dBi (2.4 GHz), 5.2 dBi (5 GHz), 4 dBi (BLE)</li> </ul>
<b>Mounting</b>	<ul style="list-style-type: none"> <li>Wall-plate (standard bracket), wall mount (standard bracket), desktop (optional stand)</li> </ul>
<b>Anti-theft</b>	<ul style="list-style-type: none"> <li>1 x screw lock</li> </ul>
WI-FI	
<b>Standards</b>	<ul style="list-style-type: none"> <li>802.11a/b/g/n/ac/ax (Wi-Fi 6)</li> <li>Concurrent dual-band 2.4 &amp; 5 GHz</li> </ul>
<b>Supported Data Rates</b>	<ul style="list-style-type: none"> <li>802.11b: 1, 2, 5.5, 11 Mbps</li> <li>802.11a/g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps</li> <li>802.11n: 6.5 – 300 Mbps (20 / 40 MHz)</li> <li>802.11ac: 6.5 – 867 Mbps (20 / 40 / 80 MHz)</li> <li>802.11ax: 3.6 – 574 Mbps (2.4 GHz, 20 / 40 MHz)</li> <li>802.11ax: 3.6 – 2402 Mbps (5 GHz, 20 / 40 / 80 / 160 MHz)</li> </ul>
<b>Radio Chains</b>	<ul style="list-style-type: none"> <li>2 x 2</li> </ul>
<b>Spatial Streams</b>	<ul style="list-style-type: none"> <li>2; Uplink and downlink MU-MIMO support</li> </ul>
<b>Aggregate Conducted Transmit Power<sup>1</sup></b>	<ul style="list-style-type: none"> <li>2.4 GHz: 22 dBm<sup>2</sup></li> <li>5 GHz: 22 dBm<sup>2</sup></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, 160Mhz</li> </ul>
<b>Frequency Range</b>	<ul style="list-style-type: none"> <li>2.401 – 2.483 GHz<sup>3</sup></li> <li>5.170 – 5.835 GHz<sup>3</sup></li> </ul>
<b>Operating Channels</b>	<ul style="list-style-type: none"> <li>2.4G: 1 – 11 (US), 1 – 13 (Europe, Japan)</li> <li>5 GHz<sup>3</sup>: 36 – 165 (US), 36 – 140 (Europe), 36 – 144 (Japan)</li> </ul>

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

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**

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

<b>Wireless</b>	<ul style="list-style-type: none"> <li>802.11 k/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</li> <li>Wi-Fi Enhanced Open (OWE)</li> <li>Wireless Site Survey</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</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> </ul>
<b>Security</b>	<ul style="list-style-type: none"> <li>WPA-Personal (AES)</li> <li>WPA-Enterprise (AES)</li> <li>WPA2-Personal (AES)</li> <li>WPA2-Enterprise (AES)</li> <li>WPA3-Personal (AES)</li> <li>WPA3-Personal Transition (AES)</li> <li>WPA3-Enterprise (AES)</li> <li>WPA3-Enterprise transition (AES)</li> <li>Multi Pre-Shared Key (MPSK)</li> <li>MAC Address Authentication</li> <li>DHCP Snooping</li> <li>ARP Inspection</li> <li>L3 Firewall</li> </ul>

FEATURES	
<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-Series Controller (Complete Tunnel/Split Tunnel)</li> <li>• SSH</li> <li>• QR Code Onboarding</li> <li>• SNMP v2c</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> </ul>
<b>Mobility</b>	<ul style="list-style-type: none"> <li>• Hotspot 2.0 R1</li> </ul>
<b>Others</b>	<ul style="list-style-type: none"> <li>• Target Wake Time (TWT)</li> <li>• iBeacon</li> <li>• Hotspot Captive Portal</li> <li>• Dynamic Authorization (DAE)</li> </ul>

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

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

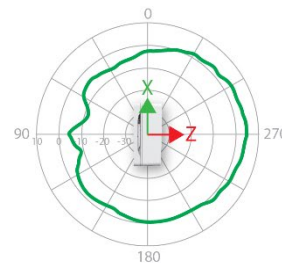
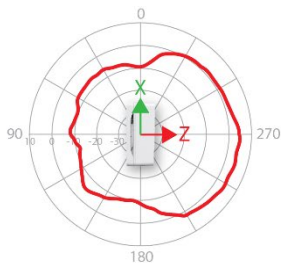
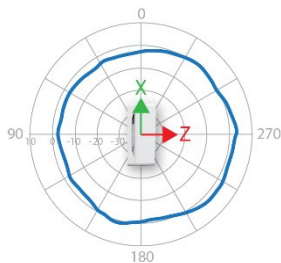
**SIGNAL COVERAGE PATTERN**

**Azimuth**

■ 2.4 GHz

■ 5 GHz

■ Bluetooth

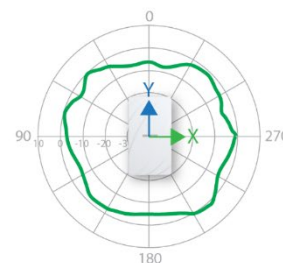
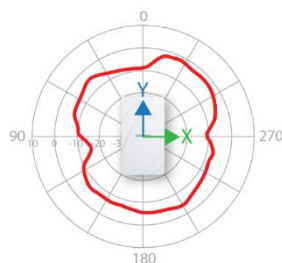


**Elevation**

■ 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