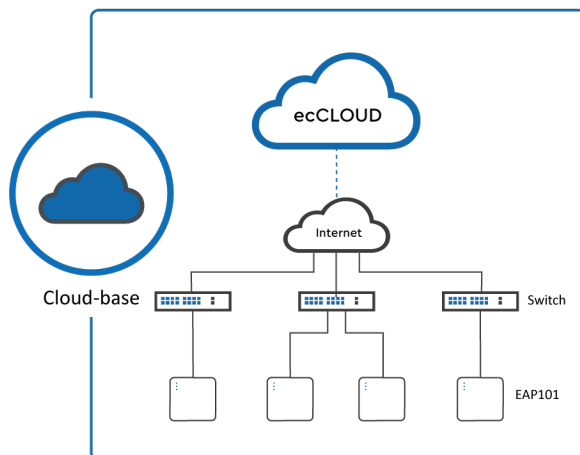
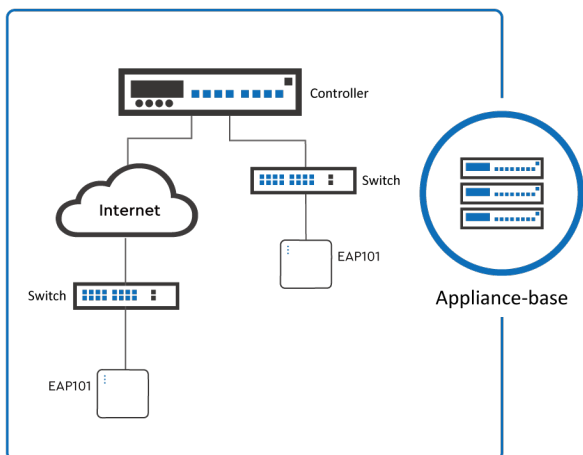


EAP101

INDOOR WI-FI 6 ACCESS POINT

INTRODUCTION

The EAP101 is an enterprise-grade, concurrent dual-band Wi-Fi 6 indoor access point. The EAP101 supports 2x2:2 uplink and downlink MU-MIMO between the AP and multiple clients, with up to 1.7 Gbps aggregated data rate. The EAP101 is equipped with a Bluetooth Low Energy (BLE) radio and ZigBee, enabling value-added applications such as iBeacon. The EAP101 can be operated in a standalone mode or managed by Edgecore's ecCLOUD and EWS-Series controllers. In addition, when managed by ecCLOUD, the EAP101 supports AI-enabled performance detection to help administrators monitor and enhance the network performance.



HIGHLIGHTS

- Concurrent Dual-Band 2.4 GHz & 5 GHz
- 802.11ax 2x2:2 UL MU-MIMO supporting up to 1.7 Gbps data rate
- Support up to 32 ESSIDs.
- Enterprise-Grade Wireless Security
- Bluetooth Low Energy (BLE) 5.2
- ZigBee
- 802.3at Power over Ethernet (PoE)

SPECIFICATIONS

PHYSICAL

Power	- DC Input: 12V / 2.0A (Power adapter included) - PoE: 802.3at compliant (PoE injector not included)
Dimensions (L x W x H)	19.5 cm x 19.5 cm x 3.9 cm (7.68 x 7.68 x 1.54 in)
Weight	0.65 kg (1.44 lb)
Interface	- Uplink: 1 x 10/100/1000/2.5GBase-T Ethernet, Auto MDIX, RJ-45 with 802.3at PoE - LAN: 2 x 10/100/1000Base-T Ethernet, Auto MDIX, RJ-45 - Console: 1 x RJ-45 Port - USB: 1 x USB 2.0 Port
LED Indicator	2.4G-WiFi / 5G-WiFi / Power
Buttons	Restart/ Reset
Environmental Conditions	- Operating Temperature: 0°C (32°F) to 50°C (122°F) - Operating Humidity: 5% to 95% non-condensing
Power Consumption	22.4 W max.
Antenna	- Type: 3 x Built-in antenna (2 x 2.4 GHz & 5 GHz, 1 x Bluetooth Low Energy) - Gain: 4.8 dBi (2.4 GHz), 6 dBi (5 GHz), 4.6 dBi (BLE)
Mounting	Wall/Ceiling/T-bar mount (Mounting kit included)
Anti-theft	1 x Kensington lock slot

WI-FI

Standards	802.11ax (Wi-Fi 6) - Concurrent dual-band 2.4 & 5 GHz
Supported Data Rates	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 – 1200 Mbps (5 GHz, 20 / 40 / 80 MHz)
Radio Chains	2 x 2
Spatial Streams	2; MU-MIMO support
Aggregate Conducted Transmit Power ¹	2.4 GHz: Up to 26 dBm² 5 GHz: Up to 26 dBm²
Channelization	2.4 GHz: 20 / 40 MHz 5 GHz: 20 / 40 / 80Mhz
Frequency Range	2.400 – 2.483 GHz 5.150 – 5.850 GHz
Operating Channels	2.4 GHz: 1-11 (US), 1-13 (Europe), 1-13 (Japan) 5 GHz³: 36-165 (US), 36-140 (Europe), 36-144 (Japan)
ESSIDs	Up to 16 per radio (32 total)
Certifications	FCC, CE, LVD, NCC, BSMI, VCCI, JATE, TELEC, IC, C-Tick

1: RF output power aggregates across MIMO chains and does not 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	- Up to 574 Mbps (2.4 GHz) - Up to 1200 Mbps (5 GHz)
FEATURES	
Wireless	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	- 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	- 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
Maintenance	- 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)

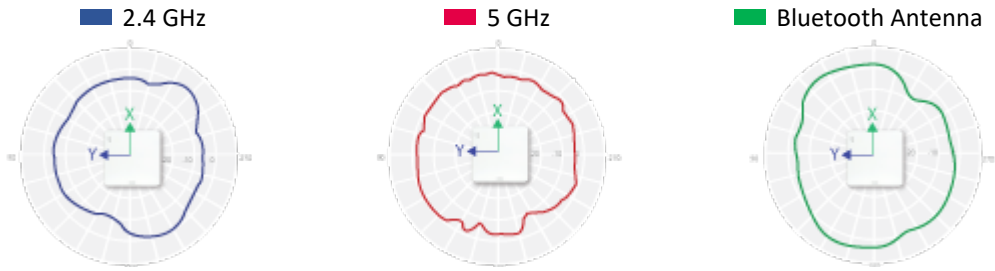
FEATURES	
QoS	• RSSI Threshold (Optimal Client Filtering) • Multicast-to-Unicast Conversion • WME
Mobility	• OpenRoaming (Hotspot 2.0 R1)
Others	• Target Wake Time (TWT) • iBeacon • Hotspot Captive Portal • Dynamic Authorization (DAE)

AI-ENABLED DETECTION ⁴	
Internet (WAN)	• Throughput (Up/Down) • Packet Drops • Roundtrip Latency • Usage
Wi-Fi Connection/ Experience	• 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	• Poor AP Selection • Poor Overlap • AP Slow Response • Sticky Client • Slow Roaming
Application	• Reachability • Upstream Health • Downstream Health

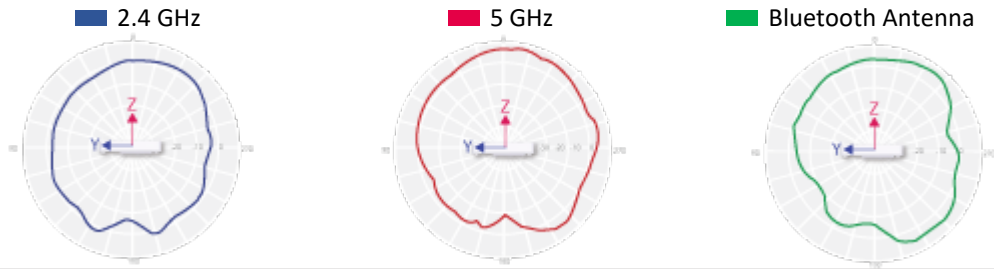
4: When managed by ecCLOUD with the Aprecomm VWE (Virtual Wireless Expert) AI solution enabled.

SIGNAL COVERAGE PATTERN

Azimuth



Elevation



RECEIVE SENSITIVITY		
Operating Mode	Data Rate	Receive Sensitivity (dBm)
802.11b	1 Mbps	-95
	11 Mbps	-87
802.11a	6 Mbps	-89
	54 Mbps	-72
802.11g	6 Mbps	-90
	54 Mbps	-73
802.11n (2.4 GHz/HT20)	MCS0	-90
	MCS7	-72
802.11n (2.4 GHz/HT40)	MCS0	-86
	MCS7	-70
802.11n (5 GHz/HT20)	MCS0	-89
	MCS7	-71
802.11n (5 GHz/HT40)	MCS0	-86
	MCS7	-70
802.11ac (VHT20)	MCS0	-90
	MCS8	-69
802.11ac (VHT40)	MCS0	-86
	MCS9	-64
802.11ac (VHT80)	MCS0	-84
	MCS9	-60
802.11ax (2.4 GHz/HE20)	MCS0	-90
	MCS11	-62
802.11ax (2.4 GHz/HE40)	MCS0	-86
	MCS11	-59
802.11ax (5 GHz/HE20)	MCS0	-89
	MCS11	-60
802.11ax (5 GHz/HE40)	MCS0	-86
	MCS11	-58
802.11ax (5 GHz/HE80)	MCS0	-84
	MCS11	-56