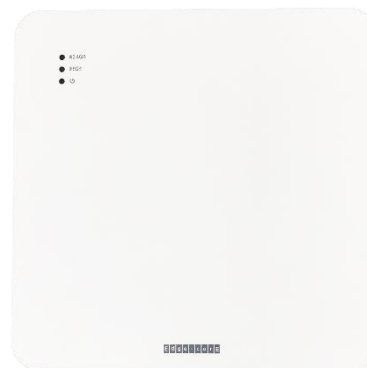


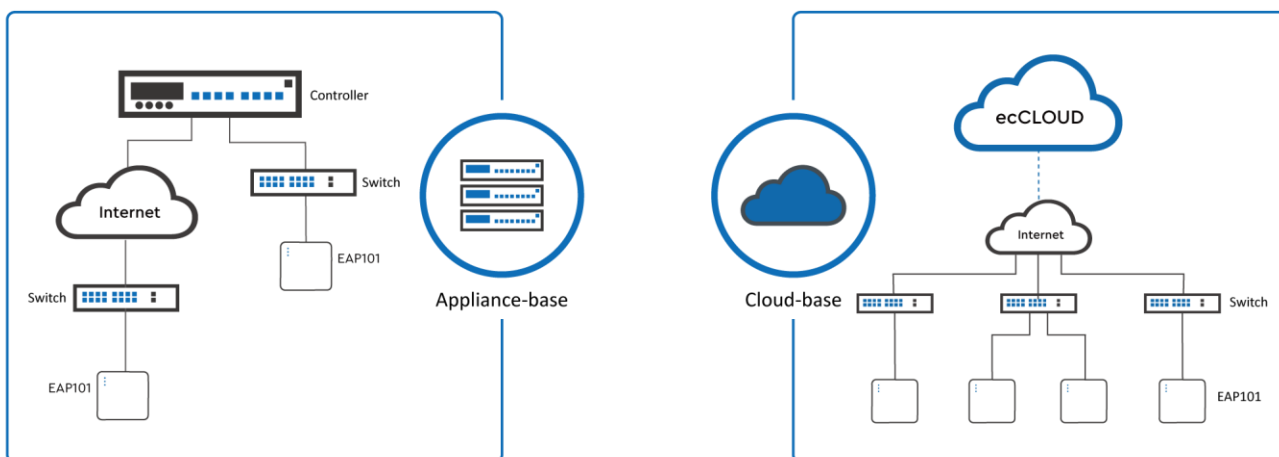
EAP101

INDOOR WI-FI 6 ACCESS POINT



INTRODUCTION

EAP101 is an enterprise-grade, concurrent dual-band Wi-Fi 6 indoor access point. EAP101 supports 2x2:2 uplink and downlink MU-MIMO between the AP and multiple clients, with up to 1.7Gbps aggregated data rate. EAP101 is equipped with Bluetooth Low Energy (BLE) radio and ZigBee enabling value-added applications such as iBeacon. EAP101 can be operated as standalone mode or managed by Edgecore ecCLOUD and EWS-Series controller. In addition, when managed by ecCLOUD, the EAP101 supports AI-enabled performance detection to help administrators to 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 1.7Gbps 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	<ul style="list-style-type: none"> DC Input: 12V / 2.0A (Power adapter included) PoE: 802.3at compliant (PoE injector not included)
Dimensions (L x W x H)	<ul style="list-style-type: none"> 19.5 cm x 19.5 cm x 3.9 cm (7.68 x 7.68 x 1.54 in)
Weight	<ul style="list-style-type: none"> 0.65 kg (1.44 lbs)
Interface	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 2.4G-WiFi / 5G-WiFi / Power
Buttons	<ul style="list-style-type: none"> Restart/ Reset
Environmental Conditions	<ul style="list-style-type: none"> Operating Temperature: 0°C (32°F) to 50°C (122°F) Operating Humidity: 5% to 95% non-condensing
Power Consumption	<ul style="list-style-type: none"> 22.4W max.
Antenna	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Wall/Ceiling/T-bar mount (Mounting kit included)
Anti-theft	<ul style="list-style-type: none"> 1 x Kensington lock slot
WI-FI	
Standards	<ul style="list-style-type: none"> 802.11ax (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 – 1200 Mbps (5 GHz, 20 / 40 / 80 MHz)
Radio Chains	<ul style="list-style-type: none"> 2 x 2
Spatial Streams	<ul style="list-style-type: none"> 2; MU-MIMO support
Aggregate Conducted Transmit Power*¹	<ul style="list-style-type: none"> 2.4 GHz: Up to 26 dBm*² 5 GHz: Up to 26 dBm*²
Channelization	<ul style="list-style-type: none"> 2.4 GHz: 20 / 40 MHz 5 GHz: 20 / 40 / 80Mhz
Frequency Range	<ul style="list-style-type: none"> 2.400 – 2.483 GHz 5.150 – 5.850 GHz
Operating Channels	<ul style="list-style-type: none"> 2.4 GHz: 1-11 (US), 1-13 (Europe), 1-13 (Japan) 5 GHz*³: 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, CE, LVD, NCC, BSMI, VCCI, JATE, TELEC, IC, C-Tick

*1: RF output power aggregates across MIMO chains and doesn't contain antenna gain

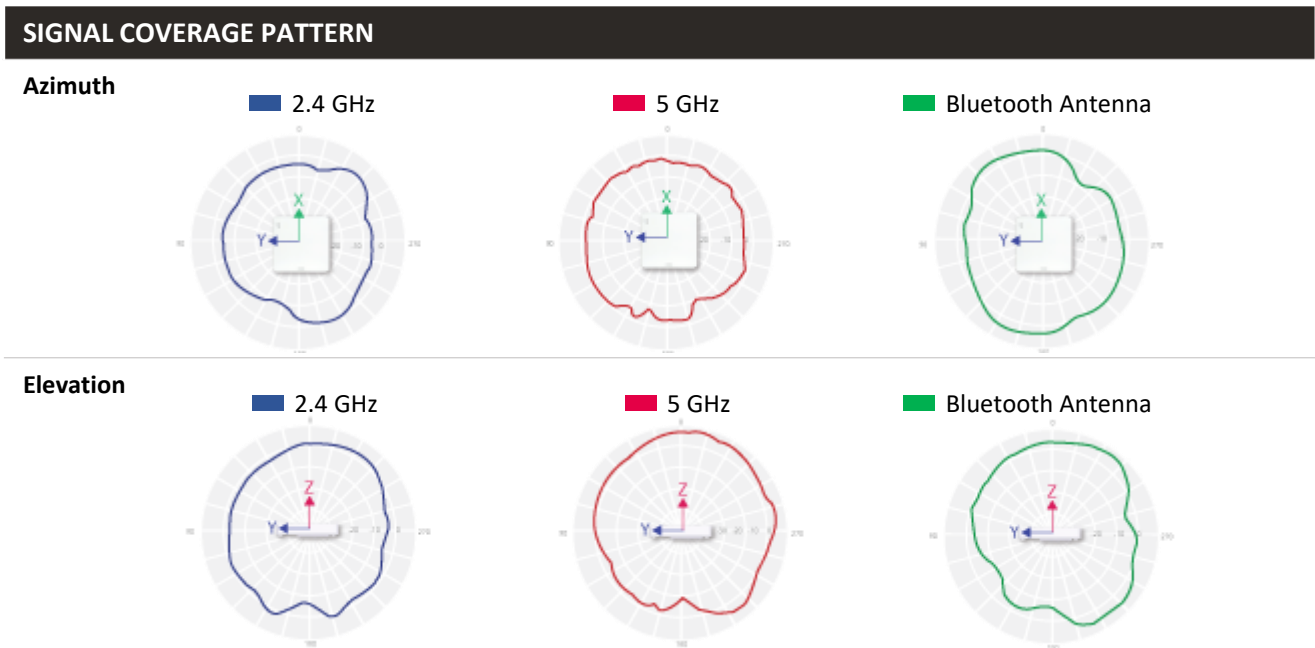
*2: Maximum power is limited by local regulatory requirements

*3: Some channels are restricted by local regulatory and certifications.

PERFORMANCE	
Physical Data Rate	<ul style="list-style-type: none"> • Up to 574 Mbps (2.4 GHz) • Up to 1200 Mbps (5 GHz)
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)
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)
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
Maintenance	<ul style="list-style-type: none"> • Network Time Protocol (NTP) • Standalone • Management by ecCLOUD • Management by EWS-Series Controller (Complete tunnel/Split Tunnel) • SSH • QR Code Onboarding • SNMP v2c • Remote Syslog
QoS	<ul style="list-style-type: none"> • RSSI Threshold (Optimal Client Filtering)
Mobility	<ul style="list-style-type: none"> • Hospot 2.0 R1
Others	<ul style="list-style-type: none"> • Target Wake Time (TWT) • iBeacon

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 and enable the Aprecomm VWE (Virtual Wireless Expert) AI Solution



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