Indoor Wi-Fi 7 access point

Edgecore EAP105

Wi-Fi 7. No subscription.

An enterprise-grade access point that runs 2.4, 5 and 6 GHz at the same time, built for crowded rooms, busy floors and guest networks. RedCell designs, pre-provisions and supports it from the US.



9.34 Gbps
Max aggregate data rate

3 bands
2.4, 5 and 6 GHz, concurrent

5GbE
PoE+ uplink, plus a GbE LAN port

320 MHz
Channels on 6 GHz

OVERVIEW

Wi-Fi 7 speed, enterprise security, nothing to renew.

Three radios run side by side, with 320 MHz channels on 6 GHz, 4K-QAM and Multi-Link Operation for faster speeds and lower latency. Built by Edgecore, the house brand of Accton Technology, it runs standalone or under ecCLOUD and on-site controllers, with no license that has to stay paid for it to keep working.

Tri-band Wi-Fi 7

2.4, 5 and 6 GHz concurrently, up to 320 MHz channels on 6 GHz, 2×2 MU-MIMO on each band.

Up to 9.34 Gbps aggregate

688 Mbps on 2.4 GHz, 2,882 Mbps on 5 GHz and 5,765 Mbps on 6 GHz.

5GbE PoE+ uplink, plus a LAN port

802.3at PoE input on a 5GbE port, and a second GbE port for a wired device.

Guest-network ready

WPA3, MPSK/DPSK, captive portal, OpenRoaming (Hotspot 2.0 R1) and client isolation.

Smart-room radios built in

BLE, Zigbee and Thread for iBeacon and Matter applications.

Manage it your way

Standalone, Edgecore ecCLOUD or EWS controllers, with zero-touch provisioning.

SPECIFICATIONS

Full specifications.

HARDWARE & PHYSICAL	
Power	USB-C power input (PD 3.0, 15–20 V; adapter not included) 802.3at PoE (injector not included)
Power consumption	23.58 W max
Uplink port	1 × 100/1000/2500/5000BASE-T RJ-45, auto MDI-X, 802.3at PoE in
LAN port	1 × 100/1000BASE-T RJ-45, auto MDI-X
Dimensions	179 × 195 × 35 mm
Weight	0.907 kg
LED / buttons	1 tri-color LED (power, cloud status, uplink); restart/reset button
Antenna	Built-in; 5 dBi (2.4 GHz), 6 dBi (5 GHz), 6 dBi (6 GHz), 3.7 dBi (BLE)
Mounting	Wall, wall-plate, ceiling or T-bar; mounting kit included
Anti-theft	Kensington lock slot
Operating environment	0 to 50 °C (32 to 122 °F); 5–95% RH non-condensing; IP41
Storage environment	−30 to 70 °C (−22 to 158 °F); 5–95% RH non-condensing
Certifications	FCC, IC, CE, TELEC, VCCI, NCC, BSMI, UKCA, UL2043 plenum rating

WI-FI & RADIO	
Standards	802.11a/b/g/n/ac/ax/be (Wi-Fi 7), concurrent 2.4, 5 and 6 GHz
Radio chains	2×2 on each band
Spatial streams	6 (2×2:2 on 2.4 GHz, 5 GHz and 6 GHz)
Supported data rates	802.11b: 1–11 Mbps · 802.11a/g: 6–54 Mbps 802.11n: 6.5–300 Mbps · 802.11ac: 6.5–867 Mbps 802.11ax: 7.3–2,402 Mbps · 802.11be: 7.3–5,765 Mbps
Channel widths	2.4 GHz: 20/40 · 5 GHz: 20/40/80/160 · 6 GHz: 20/40/80/160/320 MHz
Conducted TX power[1]	Up to 28 dBm (2.4 GHz), 29 dBm (5 GHz), 25 dBm (6 GHz)[2]
Frequency range	2.401–2.483 · 5.170–5.835 · 5.925–7.125 GHz[3]
Operating channels	2.4 GHz: 1–11 (US) · 5 GHz: 36–165 (US) · 6 GHz: 1–233[3]
SSIDs	Up to 16 per radio on 2.4 and 5 GHz; up to 2 on 6 GHz

[1] Aggregated across MIMO chains, excluding antenna gain. [2] Maximum power limited by local regulations. [3] Some channels restricted by local regulations and certifications.

PERFORMANCE & FEATURES

Software and performance.

688 Mbps
Physical data rate, 2.4 GHz

2,882 Mbps
Physical data rate, 5 GHz

5,765 Mbps
Physical data rate, 6 GHz

Wireless

- 802.11k/v/r
- OFDMA
- Client isolation
- Open Mesh
- BSS coloring
- Wi-Fi Enhanced Open (OWE)
- Wireless site survey

Network

- Spanning Tree Protocol (STP)
- DHCP
- 802.1Q and dynamic VLAN
- Access control lists (ACL)
- NAT
- LLDP
- Smart isolation
- IPv6 compatible
- Proxy ARP

Security

- WPA/WPA2/WPA3 Personal and Enterprise (AES)
- WPA3 transition modes
- Multi pre-shared key (MPSK)
- Dynamic pre-shared key (DPSK)
- MAC address authentication
- Layer 3 firewall

Management

- Standalone
- Edgecore ecCLOUD and ecCLOUD-VPC
- EWS/VEWS controllers (complete or split tunnel)
- Zero-touch provisioning (ZTP)
- SSH, SNMP v1/v2c/v3, remote syslog, NTP
- Discovery tool

QoS & mobility

- RSSI threshold (optimal client filtering)
- Multicast-to-unicast conversion
- WME
- OpenRoaming (Hotspot 2.0 R1)

Other

- Target Wake Time (TWT)
- Hotspot captive portal
- Dynamic authorization (DAE)
- 4G/5G cellular coexistence filter
- BLE and Zigbee radios

USE CASES

Where the EAP105 fits.

Hospitality: a Wi-Fi 7 AP in every room

Wall-plate mounting, a LAN port for the TV or phone, and per-room keys with MPSK/DPSK keep in-room deployments clean and secure.

Multi-site restaurants & retail

Zero-touch provisioning and VLAN support let each site go live with POS, staff and guest traffic kept separate, managed from one view.

Education

OFDMA, MU-MIMO and BSS coloring keep a room full of laptops and tablets connected, with WPA3-Enterprise for staff and students.

Sports & venues

Three concurrent bands and Multi-Link Operation spread heavy client loads across suites, concourses and meeting spaces.

Warehousing: offices and indoor floors

A strong fit for conditioned indoor areas (IP41, 0–50 °C). For docks, yards and unconditioned space, RedCell specs an outdoor model.

Offices & multi-tenant buildings

Enterprise features for growing offices and shared buildings, with management access included under RedCell advanced support.

REDCELL SUPPORT

The hardware is half the story.

01

Design.

Network and RF design reviews so access points land where coverage and capacity need them.

02

Pre-provision.

Units configured before they ship, so your installers hang them and go.

03

Support.

Advanced support from US-based engineers, plus firmware and configuration help across your whole fleet.

30-DAY EDGECORE TRIAL

Test it on your network before you buy.

We ship you an Edgecore access point and a PoE switch, configured by RedCell for your network. Run them for 30 days with a US-based engineer on call, then decide.

Request your trial: **redcelltechnologies.com/contact · 813 885 2600**

Part number	Description
FI2WL1050001S	Edgecore EAP105, worldwide

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