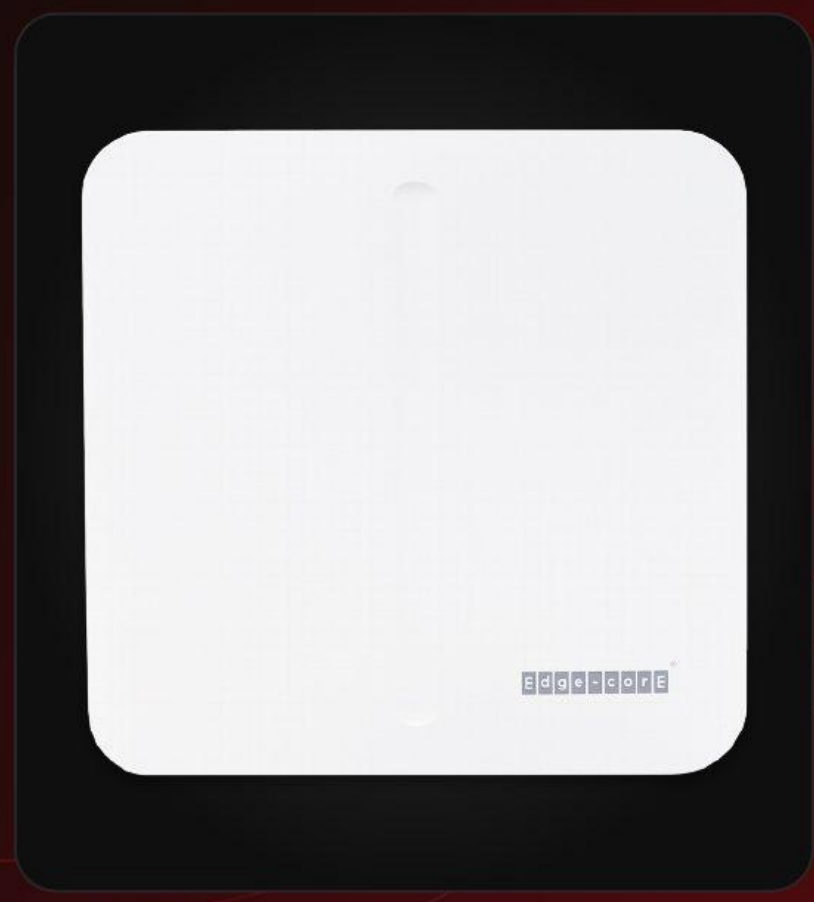
Outdoor Wi-Fi 6 access point

Edgecore OAP101
Built for outdoors.

An IP68-rated Wi-Fi 6 access point in a rust-resistant housing, rated from −40 to 60 °C for yards, docks, pool decks and open venues. RedCell designs, pre-provisions and supports it from the US.



IP68
Rust-resistant housing, also IP66 rated

−40 °C
Operates from −40 to 60 °C (−40 to 140 °F)

~3 Gbps
Max combined data rate

2.5GbE
PoE+ uplink, plus a GbE LAN port

OVERVIEW

Wi-Fi 6 for the places indoor gear can’t go.

The OAP101 is built for harsh outdoor and industrial conditions, with an IP68-rated, rust-resistant housing and built-in antennas angled 20° downward. It runs 2.4 and 5 GHz with 2×2 MU-MIMO and 160 MHz channels on 5 GHz, and mounts on a pole or a wall. It runs standalone or under ecCLOUD and EWS/VEWS controllers, with no license that has to stay paid for it to keep working.

IP66 and IP68 rated
Rust-resistant housing built for rain, dust and spray.

−40 to 60 °C operating range
Rated from −40 °F to 140 °F, 5–95% humidity non-condensing.

Dual-band Wi-Fi 6, 2x2 MU-MIMO
574 Mbps on 2.4 GHz and 2,402 Mbps on 5 GHz, with 160 MHz channels.

Downtilt antennas
Built-in omni antennas with 20° downtilt: 5 dBi (2.4 GHz), 6 dBi (5 GHz).

Pole or wall mount
Standard bracket with hose clamp for poles, or wall mounting.

Manage it your way
Standalone, ecCLOUD, ecCLOUD-VPC or EWS/VEWS controllers, with zero-touch provisioning.

SPECIFICATIONS

Full specifications.

HARDWARE & PHYSICAL	
Power	802.3at PoE (injector not included) 48 VDC terminal block
Power consumption	21.12 W
Uplink port	1 × 10/100/1000/2.5GBASE-T RJ-45, auto MDI-X, 802.3at PoE in
LAN port	1 × 10/100/1000BASE-T RJ-45, auto MDI-X
Console	1 x RJ-45
Dimensions	283.4 × 293.4 × 71 mm
Weight	1.725 kg (without bracket)
LED / buttons	1 tri-color LED (power, cloud, uplink); restart/reset button
Antenna	Built-in omni, 20° downtilt; 5 dBi (2.4 GHz), 6 dBi (5 GHz), 4.5 dBi (BLE)
Mounting	Pole (bracket with hose clamp, included) or wall
Operating environment	−40 to 60 °C (−40 to 140 °F); 5–95% RH non-condensing
Ingress rating	IP66 and IP68; protective vent
Certifications	FCC, CE, TELEC, VCCI

WI-FI & RADIO	
Standards	802.11a/b/g/n/ac/ax (Wi-Fi 6), concurrent 2.4 and 5 GHz
Radio chains	2.4 GHz: 2×2 · 5 GHz: 2×2
Spatial streams	2; MU-MIMO
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: 3.6–574 Mbps (2.4 GHz) · 3.6–2,402 Mbps (5 GHz)
Channel widths	2.4 GHz: 20/40 · 5 GHz: 20/40/80/160 MHz
Conducted TX power[1]	Up to 26 dBm (2.4 GHz), 25 dBm (5 GHz)[2]
Frequency range	2.401–2.483 · 5.170–5.835 GHz
Operating channels	2.4 GHz: 1–11 (US) · 5 GHz: 36–165 (US)[3]
SSIDs	Up to 16 per radio (32 total)

[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.

574 Mbps
Physical data rate, 2.4 GHz

2,402 Mbps
Physical data rate, 5 GHz

160 MHz
Channels on 5 GHz

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

Network
- Spanning Tree Protocol (STP)
- DHCP and DHCP relay
- 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
- DHCP snooping and ARP inspection
- Layer 3 firewall

Management
- Standalone
- Edgecore ecCLOUD and ecCLOUD-VPC
- EWS/VEWS controllers (complete or split tunnel)
- Zero-touch provisioning and QR-code onboarding
- 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)
- iBeacon
- Hotspot captive portal
- Dynamic authorization (DAE)
- BLE for iBeacon and Matter apps

USE CASES

Where the OAP101 fits.

Warehousing: docks, yards and lots

Coverage for loading docks, trailer yards and outdoor storage, rated from −40 to 60 °C.

Hospitality: pools, patios and grounds

Guest Wi-Fi that reaches pool decks, courtyards and event lawns, with captive portal and per-guest keys.

Sports & venues

Concourses, fields, plazas and parking areas where crowds gather in the open air.

Education

Quads, courtyards, bus loops and athletic fields, with WPA3-Enterprise for staff and students.

Restaurants & retail

Patios, drive-thrus, garden centers and parking lots, with POS traffic kept apart by VLAN.

RV parks, campgrounds & marinas

Wide-area guest Wi-Fi from pole mounts across sites, slips and common areas.

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
FI2WL0101009A	Edgecore OAP101, worldwide
131500000206A	POE29U-560 30 W PoE injector (optional)

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