## Overview

* Wi-Fi 6 Dual Band 2x2 (2.4/5GHz)
* Uplink: 1 x 2.5Gb (RJ-45) with PoE-In
* LAN: 1 x 1Gb (RJ-45)
* PoE-In (802.3at) or DC Input: 48V



**Manufacturer**: EdgeCore

## Specifications

**Radios:**

* Concurrent Dual Band 2.4 GHz, 5 GHz
* 2×2:2 UL and DL MU-MIMO supporting up to 3Gbps data rate
* Bluetooth Low Energy (BLE) 4.5dBi

**Interfaces:**

* Uplink: 1 x 10/100/1000/2.5GBase-T Ethernet, Auto MDIX, RJ-45 with 802.3at PoE
* LAN: 1 x 10/100/1000Base-T Ethernet, Auto MDIX, RJ-45
* Console: 1 x RJ-45 Port

 **Physical**

* Dimensions (L x W x H): 11.15in x 11.55in x 2.79in (28.34 cm x 29.34 cm x 7.1 cm)
* Power options
	+ DC Input: 48 VDC (DC terminal block)
	+ PoE input: 802.3at compliant (PSE injector is not included in standard package)
* Weight: 3.80 lb (1.725 kg)
* LED Indicator: 1 x tri-color LED (Power, Cloud, Uplink)
* Buttons: 1 x Restart / Reset
* Environmental Conditions
	+ Operating Temperature: -40°C (-40°F) to 60°C (140°F)
	+ Operating Humidity: 5% to 95% non-condensing
* Power Consumption: 21.12 W max
* Antenna
	+ Type: Built-in omni-directional antennas with 20-degree down tilt
	+ Gain: 5 dBi (2.4 GHz), 6 dBi (5 GHz), 4.5 dBi (Bluetooth Low Energy)
* Mounting options
	+ Pole mount (standard bracket including hose clamp)
	+ Wall mount (standard bracket)

**Radio**

* 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 –2402 Mbps (5 GHz, 20 / 40 / 80 / 160 MHz)
	+ 802.11ax: 3.6 –2402 Mbps (6 GHz, 20 / 40 / 80 / 160 MHz)
* Radio Chains: 2 x 2
* Spatial Streams: 2; MU-MIMO support
* Aggregate Conducted Transmit Power
	+ 2.4 GHz: Up to 26 dBm
	+ 5 GHz: Up to 25 dBm
* Regulatory domain specific: 2.4–2.4835 GHz (US, Canada, ETSI, Japan, TW) 5.15–5.25 GHz (lower band) US/Canada, TW 5.725–5.825 GHz (upper band) US/Canada, TW Europe 5.15–5.25 GHz, 5.25–5.35, 5.47–5.725 GHz Japan 5.15–5.25 GHz, 5.25–5.35, 5.47–5.73 GHz
* Channelization
	+ 2.4 GHz: 20 / 40 MHz
	+ 5 GHz: 20 / 40 / 80 / 160 MHz
* Frequency Range
	+ 2.401 –2.483 GHz
	+ 5.170 –5.835 GHz
* Operating Channels
	+ 2.4 GHz: 1-11 (US), 1-13 (Europe), 1-13 (Japan)
	+ 5 GHz : 36-165 (US), 36-140 (Europe), 100-144(Japan)

**Regulatory Compliance**

* Radio: EN300 328 V2.2.2 (2019-07) EN301 893 V2.1.1(2017-05) 47 CFR FCC Part 15.247 47 CFR FCC Part 15.407 IC RSS-247 Issue 2 and RSS-Gen Issue 5 NCC LP0002 Section 4.10.1 (2020-07-01) NCC LP0002 Section 5.7 (2020-07-01) MIC certification Rule, Article 2 Paragraph 1 Item 19 MIC certification Rule, Article 2 Paragraph 1 Item 19-3
* Emissions: EN 301 489-1 V2.1.1 (2017-02) EN 301 489-17 V3.1.1 (2017-02) EN 55032:2015 AS/NZS CISPR 32:2015, Class B 47 CFR FCC Rules and Regulations Part 15 Subpart B, Class B Digital Device ICES-003, Issue 7 Class B CNS 13438 terminal equipment design certification, Article 3, Article 4, Article 6, Article 9 and Article 34 regulation
* Safety: Low Voltage Directive IEC 62368-1:2014; and/or EN 62368-1:2014+A11:2017; and/or BS 62368-1:2014+A11:2017 CNS 14336-1 IEC/EN 62368-1, IEC/EN 60950-1
* Taiwan RoHS: CNS 15663

## What’s in the box

**Package Content:**

* OAP-101 Wifi 6 access point
* Mounting bracket and 4 x M6 screws
* DC terminal plug
* 3 x Cable glands
* 2 x Steel-band clamps for pole mount (2.5 inch diameter max.)
* Screw kit—4 screws and 4 plugs
* QR code card

## Interface overview

* 48 VDC power input or 802.3at PoE
* Restart/Reset button
	+ A quick press restarts the system
	+ Press and hold for 5 seconds resets to factory default
* Console port (RJ-45)
* LAN1 Port: 1 Gbps connections to LAN devices
	+ Port LED: On (link), Blinking (traffic)
* Uplink (PoE) Port: 2.5 Gbps connections to 802.3at PoE
	+ Port LED: On (link), Blinking (traffic)
* System LED Indicators
	+ 2.4G: On (radio on), Blinking (traffic)
	+ 5G: On (link), Blinking (traffic)
* Power/Cloud/Uplink Tri-Color LED
	+ Yellow green: On (power OK), Blinking (boot up)
	+ Blue: On (cloud managed)
	+ Purple: Blinking (uplink activity in cloud managed mode)
	+ Orange: Blinking (uplink activity in stand-alone mode)
* Kensington lock slot