## Overview

* Wi-Fi 7 Tri-Band 2x2 (2.4/5/6 GHz)
* 1 x 5GbE (PoE-In)
* 1 x 1GbE (RJ-45)



**Manufacturer**: EdgeCore

## Specifications

**Radios:**

* Concurrent Tri-Band 2.4 GHz, 5 GHz, & 6 GHz
* 802.11be (Wi-Fi 7) 2x2:2 UL/DL MU-MIMO supporting up to 9.34 Gbps aggregated data rate
* Bluetooth Low Energy (BLE), Zigbee, Thread

**Interfaces:**

* Uplink: 1 x 5GBase-T Ethernet, Auto MDIX, RJ-45 with 802.3at PoE
* LAN: 1 x 10/100/1000Base-T Ethernet, Auto MDIX, RJ-45

 **Physical**

* Dimensions (L x W x H): 7.05 in x 7.68 in x 1.38 in (17.9 cm x 19.5 cm x 3.5 cm)
* Power options
	+ PoE Input: 802.3at compliant
* Weight: 2.87 lb (0.907 kg)
* LED Indicators: Power, 2.4 GHz, 5 GHz, 6 GHz
* Buttons: Reset
* Environmental Conditions
	+ Operating Temperature: 32¬∞F (0¬∞C) to 122¬∞F (50¬∞C)
	+ Operating Humidity: 5% to 95% non-condensing
* Power Consumption: 23.58 W max
* Antenna
	+ Type: Built-in antennas
	+ Gain: 5 dBi (2.4 GHz), 6 dBi (5 GHz), 6 dBi (6 GHz), 4.78 dBi (BLE)
* Mounting options
	+ Wall
	+ Ceiling
	+ T-bar mount (Mounting kit included)

**Radio**

* Standards: 802.11be (Wi-Fi 7) concurrent tri-band 2.4 GHz, 5 GHz, & 6 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 - 1733 Mbps (20 / 40 / 80 MHz)
	+ 802.11ax: 3.6 - 574 Mbps (2.4 GHz, 20 / 40 MHz)
	+ 802.11ax: 3.6 - 2400 Mbps (5 GHz, 20 / 40 / 80 MHz)
	+ 802.11be: Up to 9.34 Gbps aggregated (2.4 GHz, 5 GHz, 6 GHz)
* Radio Chains
	+ 2.4 GHz: 2x2
	+ 5 GHz: 2x2
	+ 6 GHz: 2x2
* Spatial Streams
	+ 2.4 GHz: 2; MU-MIMO support
	+ 5 GHz: 2; MU-MIMO support
	+ 6 GHz: 2; MU-MIMO support
* Aggregate Conducted Transmit Power
	+ 2.4 GHz: Up to 23 dBm
	+ 5 GHz: Up to 26 dBm
	+ 6 GHz: Up to 26 dBm
* Regulatory domain specific: 2.4-2.4835 GHz (US, Canada, ETSI); 5.15-5.25 GHz (lower band) US/Canada, Europe; 5.725-5.825 GHz (upper band) US/Canada; 6.0-7.125 GHz
* Channelization
	+ 2.4 GHz: 20 / 40 MHz
	+ 5 GHz: 20 / 40 / 80 / 160 MHz
	+ 6 GHz: 20 / 40 / 80 / 160 / 320 MHz
* Frequency Range
	+ 2.400 - 2.4835 GHz
	+ 5.150 - 5.850 GHz
	+ 6.000 - 7.125 GHz
* Operating Channels
	+ 2.4 GHz: 1-11 (US), 1-13 (Europe), 1-13 (Japan)
	+ 5 GHz: 36-165 (US), 36-140 (Europe), 36-144 (Japan)
	+ 6 GHz: Varies by region
* Certifications: FCC, CE, LVD, NCC, BSMI, VCCI, JATE, TELEC, IC, C-Tick, Philippines, Thailand

**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:**

* EAP-105 Access point
* 2 x Mounting bracket security screws
* Mounting bracket accessary
* Ceiling plate
* Screw kit-4 screws and 4 plugs
* QR code card

## Interface overview

* 12 VDC power input
* Restart/Reset button
	+ A quick press restarts the system
	+ Press and hold for 5 seconds to reset to factory default settings
* USB 2.0 port (reserved for future use)
* LAN Port: 1 x 1 Gbps connection to LAN devices
* Uplink (PoE) Port: 1 x 5 Gbps connection to 802.3at PoE LAN devices
* System LED Indicators
	+ Uplink (PoE): On (link), Blinking (traffic)
	+ 2.4G: On (radio on), Blinking (traffic)
	+ 5G: On (radio on), Blinking (traffic)
	+ 6G: On (radio on), Blinking (traffic)
	+ Status: On (power OK), Blinking (boot up)