

Overview

- Wi-Fi 6 Dual Band 4x4 (2.4/5GHz)
- Uplink: 1 x 2.5Gb (PoE in)
- LAN: 1 x 1Gb (RJ-45)



Manufacturer: EdgeCore

Specifications

Radios:

- Concurrent Dual-Band 2.4 GHz & 5 GHz
- 802.11ax 4x4:4 UL MU-MIMO supporting up to 2.9 Gbps data rate
- Bluetooth Low Energy (BLE)

Interfaces:

- Uplink: 1 x 10/100/1000/2.5GBase-T Ethernet, Auto MDIX, RJ-45 with 802.3at PoE
- LAN: 1 x 10/100/1000/2.5GBase-T Ethernet, Auto MDIX, RJ-45
- Console: 1 x RJ-45 Port
- USB: 2 x USB 2.0 Port(Only 1 USB usable at a time)

Physical

- Dimensions (L x W x H): 7.68in x 7.91in x 1.57in (19.5 cm x 20.1 cm x 3.98 cm)
- Power options
 - DC Input: 12V / 2.0A (Adapter AC Input: 100–240 VAC, 50-60 Hz DC Output: 12 VDC, 2 A)
 - PoE input: 802.3at compliant - 25 W max, 48 VDC–55 VDC; 802.3at-compliant
- Weight: 1.54 lb (0.7 kg)
- 4 X LED Indicator (2.4G-WiFi / 5G-WiFi / Power)
- Buttons: Restart
- Environmental Conditions
 - Operating Temperature: 32°F (0°C) to 113°F (45°C)
 - Operating Humidity: 5% to 95% non-condensing
- Power Consumption: 25 W max (22W when powered by DC)
- Antenna
 - Type: 4 x Built-in antenna (2 x 2.4 GHz & 5 GHz, 1 x Bluetooth Low Energy)
 - Gain: 5.5 dBi(2.4 GHz), 7.6 dBi(5 GHz), 5.5 dBi(BLE)
- Mounting options
 - Wall
 - Ceiling
 - T-bar mount (Mounting kit included)

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 -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)
- Radio Chains:
 - 2.4GHz 2 x 2
 - 5GHz 4 x 4
- Spatial Streams:
 - 2.4GHz - 2 MU-MIMO support
 - 5GHz - 4; MU-MIMO support
- Aggregate Conducted Transmit Power
 - 2.4 GHz: Up to 23 dBm
 - 5 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 Channelization

- Channelization
 - 2.4 GHz: 20 / 40 MHz
 - 5 GHz: 20 / 40 / 80MHz
- Frequency Range
 - 2.400 –2.483 GHz
 - 5.150 –5.850 GHz s
- 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)

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:

- EAP102 access
- AC power adapter with international socket converter
- Mounting bracket accessory
- Screw kit-4 screws and 4 plugs
- Console cable-RJ45 to DB-9(TIP SKU only)
- QR code card

Interface overview

- 12 VDC power input
- Restart/Restart button
 - A quick press restarts the system
 - Press and hold for 5 seconds resets to factory default
- USB 2.0 port (reserved for future use)
- Console port (reserved for future use)
- LAN Ports: 2.5 Gbps connections to LAN devices





Access Point - Wi-Fi 6 Ceiling 4x4 - EAP-102

Shasta certified hardware

- Uplink(PoE) Port: 2.5 Gbps connections to 802.3at PoE LAN devices
- System LED Indicators
 - Uplink(PoE): On(link), Blinking(traffic)
 - 2.4G: On (radio on), Blinking (traffic)
 - 5G: On (link), Blinking (traffic)
 - Status: On (power OK),Blinking (boot up)



Shasta certified hardware – data sheet