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Juniper AP64 802.11ax WiFi6E 2 Plus 2 Plus 2 Access Point

Overview

The AP64 contains three IEEE 802.11ax radios that deliver 2×2 MIMO with two spatial streams when operating in multi-user (MU) or single-user (SU) mode. The AP64 can operate simultaneously in the 6GHz band, 5GHz band, and 2.4GHz band or two bands and a dedicated tri-band scan radio.
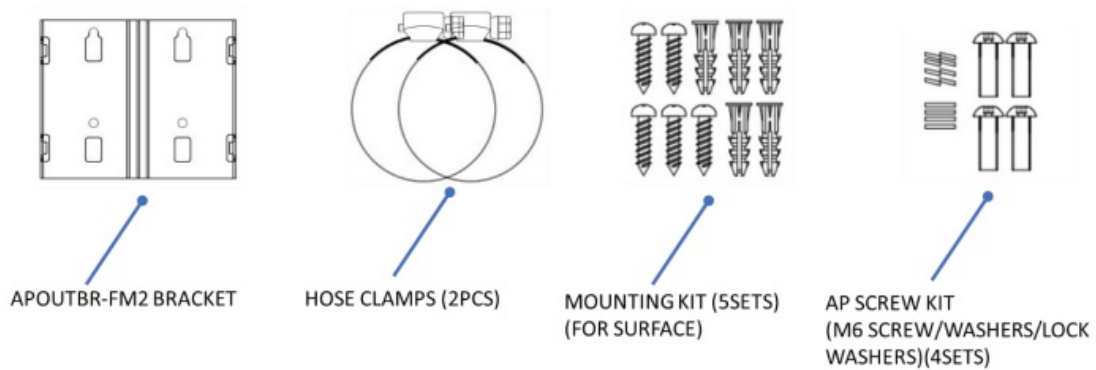
I/O ports
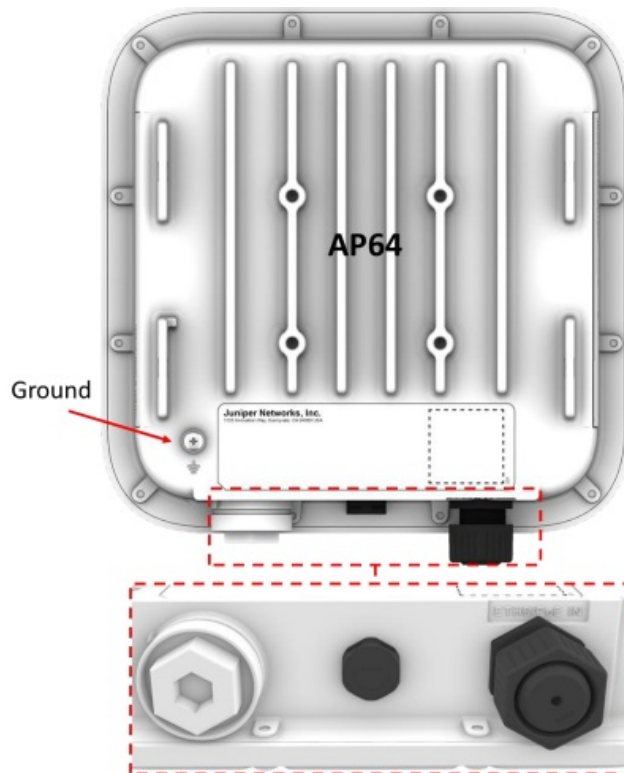
ETH0/PoE IN	100/1000/2500BASE-T RJ45 interface that supports 802.3at/802.3bt PoE PD

Ground should be connected to Earth ground using wire that is 8AWG or larger diameter.

AP64 Mounting

Flush Mount Bracket

APOUTBR-FM2 Mounting kit

APOUTBR-FM2 BRACKET   HOSE CLAMPS (2PCS)   MOUNTING KIT (5SETS) (FOR SURFACE)   AP SCREW KIT (M6 SCREW/WASHERS/LOCK WASHERS)(4SETS)

APOUTBR-ART2 Mounting kit

MOUNTING BRACKET1   MOUNTING BRACKET2   MOUNTING BRACKET3   BOLTS / NUTS / M6 SCREWS
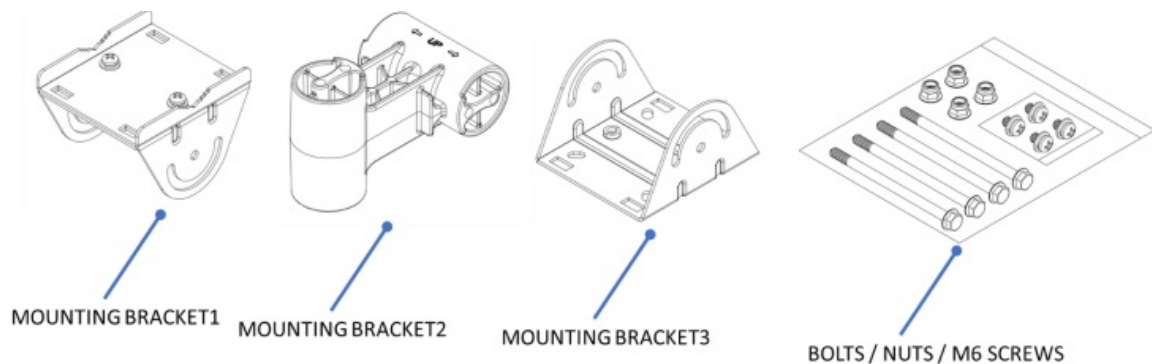
Flush Mount to Surface
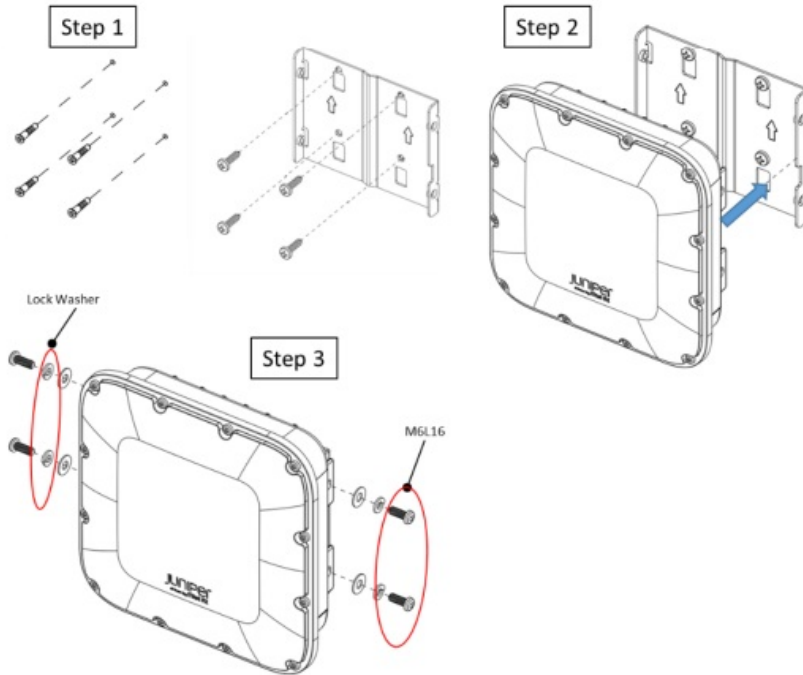
Step 1

Step 2

Step1.
  Drill 4 holes into the surface.   Insert anchors if appropriate.   Insert the 2 upper screws and tighten halfway into the surface.   Install the APOUTBR-FM2 onto the surface and tighten the 4 screws to the surface.
Step2.
  Install the AP64 onto the APOUTBR-FM2.
Step3.
  Attach the AP64 to the APOUTBR-FM2 using the provided screws and washers.

Lock Washer

Step 3

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Flush Mount to Pole
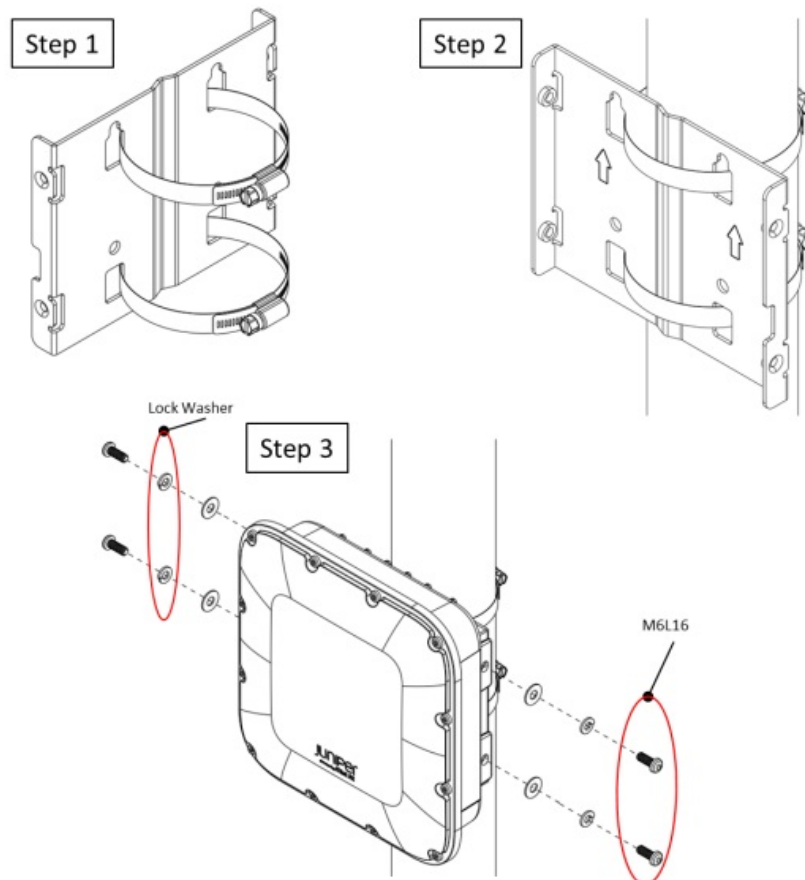
Step 1

Step 2

Step 1
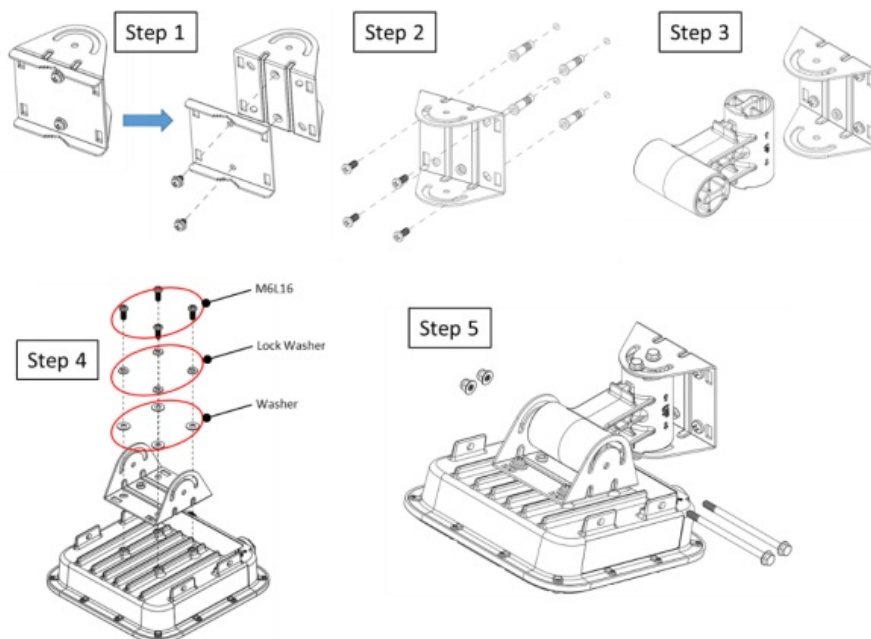 Assemble the hose clamp onto the APOUTBR-FM2.
Step 2
  Secure the APOUTBR-FM2 to the pole by tightening the hose clamp.
Step 3
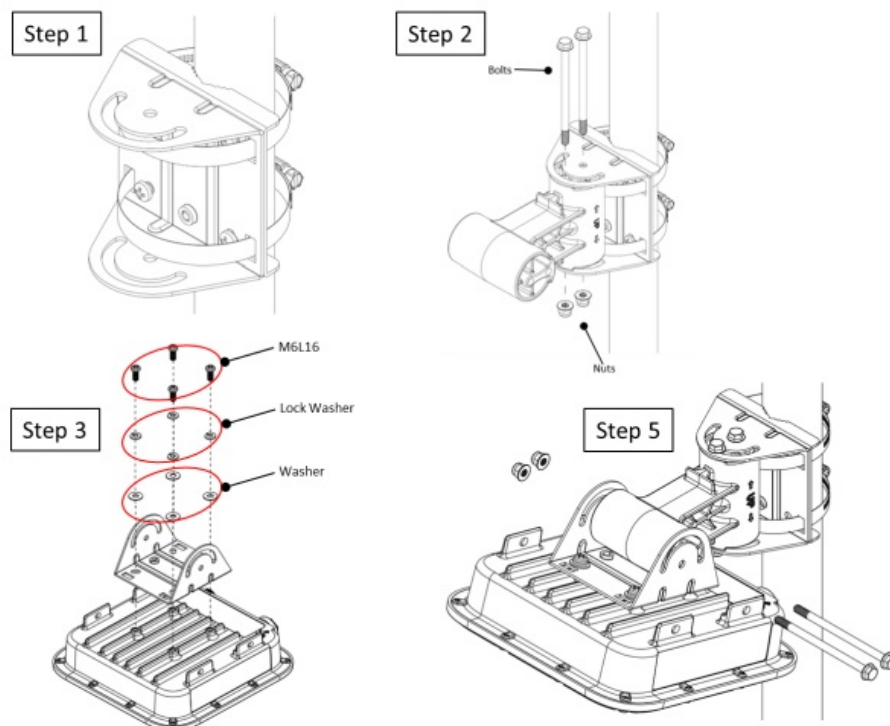 Attach the AP64 to the APOUTBR-FM2 using the provided screws and washers.

Lock Washer

Step 3

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Articulating Mount to Surface

Step 1

Step 2
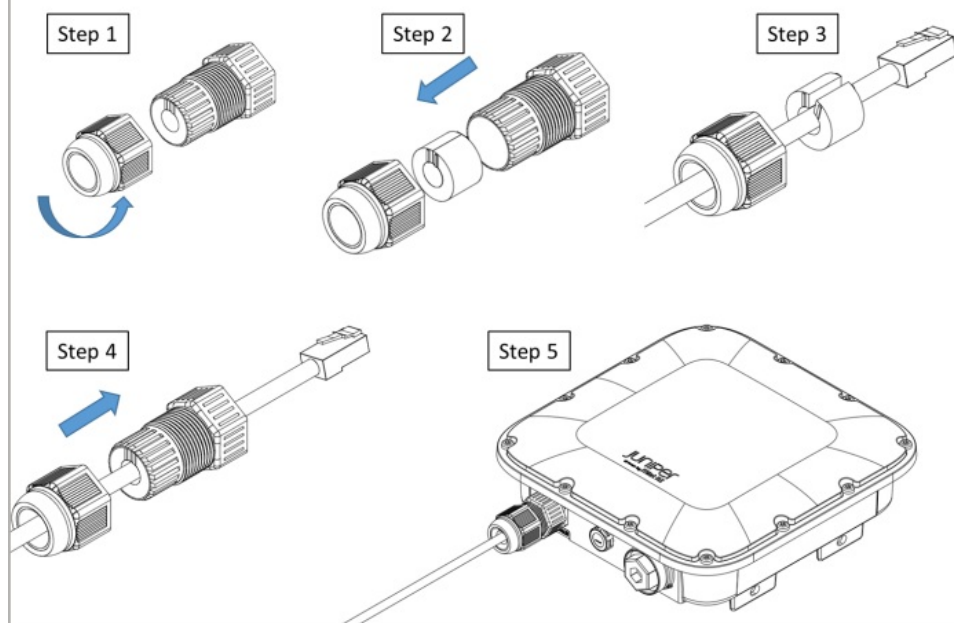
Step 3

Step 4

M6L16

Lock Washer

Washer

Step 5

Step 1
  Disassemble APOUTBR-ART2 Mounting Bracket1.
Step 2
  Install APOUTBR-ART2 Mounting Bracket1 to the surface.
Step 3
  Assemble APOUTBR-ART2 Mounting Bracket2 to Bracket1. Attach the side with "← UP →" to Bracket1.
Step 4
  Install the APOUTBR-ART2 Mounting Bracket3 to the AP64.
Step 5
  Assemble the AP64 with Bracket3 to the Bracket2 using the long screws and nuts.

Articulating Mount to Pole

Step 1

Step 2

Bolts

Nuts

Step 3

M6L16

Lock Washer

Washer

Step 5

Step 1
  Install APOUTBR-ART2 Mounting Bracket1 to the pole using the hose clamps.
Step 2
  Assemble APOUTBR-ART2 Mounting Bracket2 to Bracket1. Attach the side with "← UP →" to Bracket1.
Step 3
  Install the APOUTBR-ART2 Mounting Bracket3 to the AP64.
Step 4
  Assemble the AP64 with Bracket3 to the Bracket2 using the long screws and nuts.

Connecting RJ45 Cable Gland

Step 1

Step 2

Step 3

Step 4

Step 5

Step1.
  Disassemble cable gland
Step2.
  Remove the blue seal from the cable gland. Select the proper seal:
    Blue seal diameter is 7mm - 9.5mm
    Red seal diameter is 5.5mm - 7mm
Step3.
  Open the seal, squeeze where you see the 2 lines, and insert the Ethernet cable thru the nut and seal
Step4.
  Push Ethernet cable thru the gland. Push the seal into the gland and loosely tighten the nut
Step5.
  Connect the RJ45, tighten the cable gland to the AP64 meeting a torque spec of 10-12kg-cm, and fully tighten the nut to the cable gland meeting a torque spec of 7-10kg-cm

Technical Specifications

Feature	Description
Power options	802.3at/802.3bt PoE
Dimensions	215mm x 215mm x 64mm (8.46in x 8.46in x 2.52in)
Weight	AP64: 1.50 kg (3.31 lbs)
Operating temperature	AP64: -40° to 65° C without solar loading AP64: -40° to 55° C with solar loading
Operating humidity	10% to 90% maximum relative humidity, non-condensing
Operating altitude	3,048m (10,000 ft)
Electromagnetic emissions	FCC Part 15 Class B
I/O	1 – 100/1000/2500BASE-T auto-sensing RJ-45 with PoE

RF	2.4GHz or 6GHz – 2×2:2SS 802.11ax MU-MIMO & SU-MIMO 5GHz – 2×2:2SS 802.11ax MU-MIMO & SU-MIMO 1×1: 1SS 802.11ax 2.4GHz/5GHz/6GHz scan 2.4GHz BLE with Antenna Zigbee: 802.15.4 Thread: 802.15.4
Maximum PHY rate	Total maximum PHY rate – 3600 Mbps 6GHz – 2400 Mbps 5GHz – 1200 Mbps 2.4GHz – 600 Mbps
Indicators	Multi-color status LED
Safety standards	CSA 62368-1 CAN/CSA-C22.2 No. 62368-1-19 ICES-003:2020 Issue 7, Class B (Canada)

Warranty Information

The AP64 family of Access Points comes with a one-year limited warranty.

Included in the box:

1. AP64
2. APOUTBR-FM2
3. RJ45 cable gland

Ordering Information:

Access Points:

AP64-US	802.11ax WiFi6E 2+2+2 AP – Internal Antenna for the US Regulatory domain
AP64-WW	802.11ax WiFi6E 2+2+2 AP – Internal Antenna for the WW Regulatory domain

Mounting bracket included in the box

APOUTBR-FM2	Flush mount bracket for AP

Optional accessory bracket

APOUTBR-ART2	Articulating mount for AP

Power Supply options:
802.3at or 802.3bt PoE power

Regulatory Compliance Information:

If you need further assistance with purchasing the power source, please contact Juniper Networks, Inc.

FCC Requirement for Operation in the United States of America:

FCC Part 15.247, 15.407, 15.107, and 15.109

FCC Guideline for Human Exposure
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance between the radiator & your body; AP64 – 20cm
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device

must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution

- Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.
- This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
- The 5.925 ~ 7.125GHz operation of this device is prohibited on oil platforms, cars, trains, boats, and aircraft.
- Operation of transmitters in the 5.925-7.125 GHz band is prohibited for control of or communications with unmanned aircraft systems.
- The antenna must be installed completely perpendicular to the horizon.

Industry Canada

This device contains license-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's license-exempt RSS(s). Operation is subject to the following two conditions: (1) This device may not cause

harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

IC Caution

1. The maximum antenna gain permitted for devices in the bands 5250-5350 MHz and 5470-5725 MHz shall be such that the equipment still complies with the e.i.r.p. limit;
2. The maximum antenna gain permitted for devices in the band 5725-5850 MHz shall be such that the equipment still complies with the e.i.r.p. limits specified for point-to-point and non-point-to-point operation as appropriate; and
3. Operation on oil platforms, cars, trains, boats and aircraft shall be prohibited except for on large aircraft flying above 10,000 ft.
4. Devices shall not be used for control of or communications with unmanned aircraft systems.
5. The device for operation in the band 5150-5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems.
6. The transmitter module may not be co-located with any other transmitter or antenna.

Radiation Exposure Statement:

This equipment complies with IC RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm (AP64) between the radiator & your body.

Hereby, Juniper Networks, Inc. declares that the radio equipment type (AP64) is in compliance with Directive 2014/53/EU.
The full text of the EU declaration of conformity is available at the following:
https://www.mist.com/support/
The frequency and maximum transmitted Power in EU:

Bluetooth/Thread/Zigbee:

Frequency range (MHz)	Maximum EIRP in EU (dBm)
2400 – 2483.5	8.45

WLAN:

Frequency range (MHz)	Maximum EIRP in EU (dBm)
2400 – 2483.5	19.97
5150 – 5250	22.97
5250 – 5350	22.97
5500 – 5700	29.96
5745 – 5825	13.97
5945 – 6425	22.97

- This equipment complies with EU radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.
- The product is for use by authorized professionals and in environments where the product has been assessed for safe and compliant operation. The installer is responsible for ensuring that the equipment meets all local safety requirements for the installed location.
- For products not certified for use in Hazardous Locations, the equipment is not suitable for use in explosive environments, in the presence of flammable liquids, near explosives, or in areas where blasting is occurring.
- The device is restricted to indoor use only when operating in 5150 to 5350 MHz and 5945 to 6425MHz frequency ranges.

	AT	BE	BG	CZ	DK	EE	FR	DE	IS
	IE	IT	EL	ES	CY	LV	LI	LT	LU
	HU	MT	NL	NO	PL	PT	RO	SI	SK
	TR	FI	SE	CH	HR	UK(NI)			

UK

Hereby, Juniper Networks, Inc. declares that the radio equipment type (AP64) is in compliance with Radio Equipment Regulations 2017.

The full text of the UK declaration of conformity is available at the following:

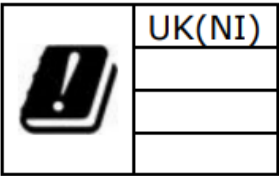The frequency and maximum transmitted Power in UK:

Bluetooth:

Frequency range (MHz)	Maximum EIRP in UK (dBm)
2400 – 2483.5	8.45

WLAN:

Frequency range (MHz)	Maximum EIRP in UK (dBm)
2400 – 2483.5	19.97
5150 – 5250	22.96
5250 – 5350	22.96
5500 – 5700	29.74
5745 – 5825	22.98
5925 – 6425	22.97

- This equipment complies with UK radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.
- The product is for use by authorized professionals and in environments where the product has been assessed for safe and compliant operation. The installer is responsible for ensuring that the equipment meets all local safety requirements for the installed location.
- For products not certified for use in Hazardous Locations, the equipment is not suitable for use in explosive environments, in the presence of flammable liquids, near explosives, or in areas where blasting is occurring.
- The device is restricted to indoor use only when operating in 5150 to 5350 MHz and

5945 to 6425MHz frequency ranges.

Japan

AP64 Access Point is restricted to indoor use only when operating in 5150-5350MHz and 5925 to 6425MHz frequency ranges.

Hong Kong

The device is restricted to indoor use only when operating in 5150 to 5350 MHz ranges.

AP64 Hardware Installation Guide

Frequently Asked Questions

- **Q: What is the warranty period for the AP64 access points?**

  A: The AP64 family of Access Points comes with a one-year limited warranty.

- **Q: What are the mounting options included in the box?**

  A: The box includes a Flush Mount Bracket (APOUTBR-FM2) for the AP. An optional accessory bracket (APOUTBR-ART2) for articulating mount is also available.

Documents / Resources

	[Juniper AP64 802.11ax WiFi6E 2 Plus 2 Plus 2 Access Point](#) [pdf] Installation Guide AP64, AP64 802.11ax WiFi6E 2 Plus 2 Plus 2 Access Point, 802.11ax WiFi6E 2 Plus 2 Plus 2 Access Point, 2 Plus 2 Plus 2 Access Point, Access Point

References

- [User Manual](#)

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🏷 2 Plus 2 Plus 2 Access Point, 802.11ax WiFi6E 2 Plus 2 Plus 2 Access Point, Access Point, AP64, AP64 802.11ax WiFi6E 2 Plus 2 Plus 2 Access Point, JUNIPer

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