Juniper NETWORKS AP34 Access Point Installation Guide

Contents

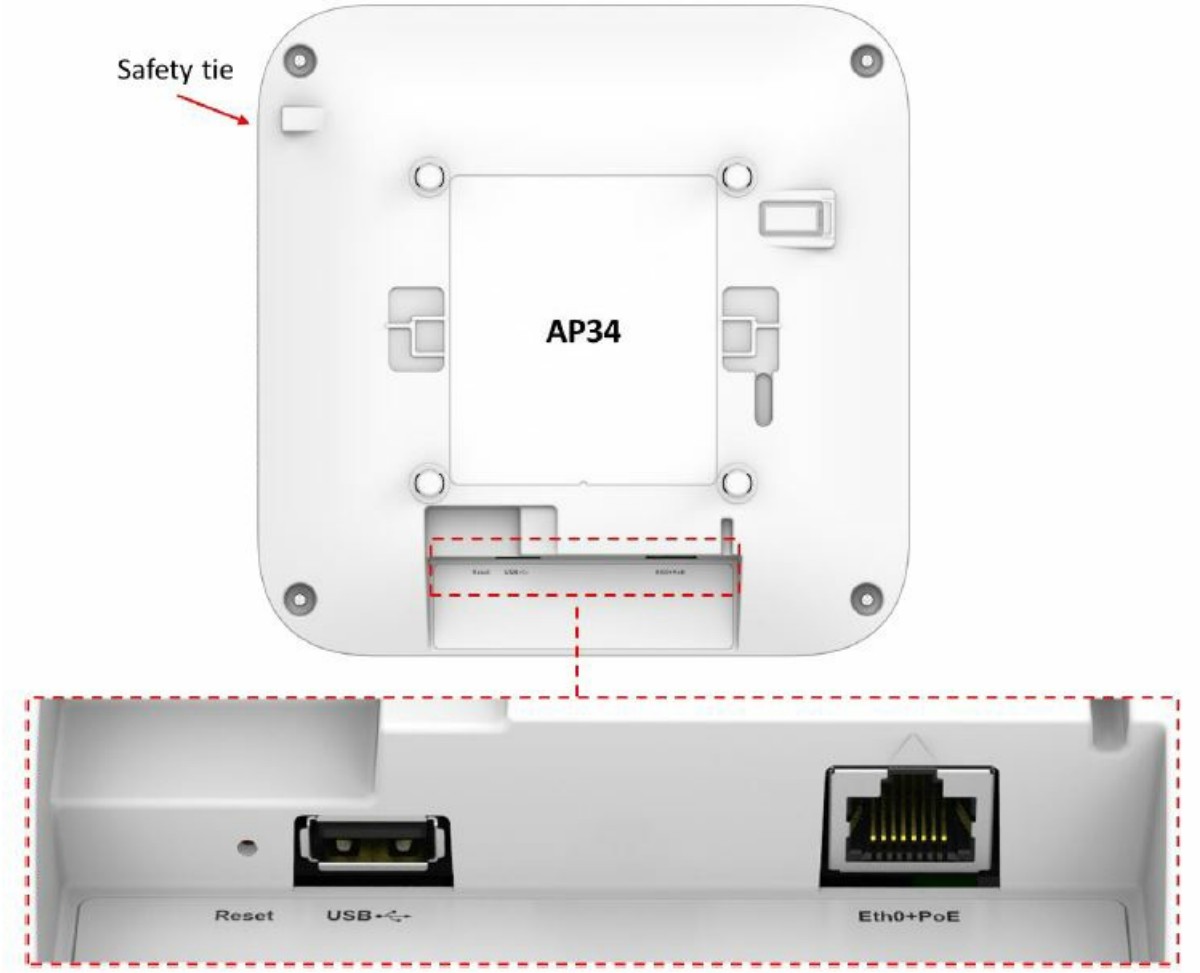
1 Juniper NETWORKS AP34 Access Point
2 Overview
3 AP34 Mounting
4 US double gang junction box
5 Technical Specifications
6 Warranty Information
7 Regulatory Compliance Information
8 FCC STATEMENT
9 Documents / Resources
9.1 References

Juniper NETWORKS AP34 Access Point

Overview

- The AP34 contains four 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 AP34 is capable of operating simultaneously in the 6GHz band, 5GHz band, and 2.4GHz band along with a dedicated tri-band scan radio.

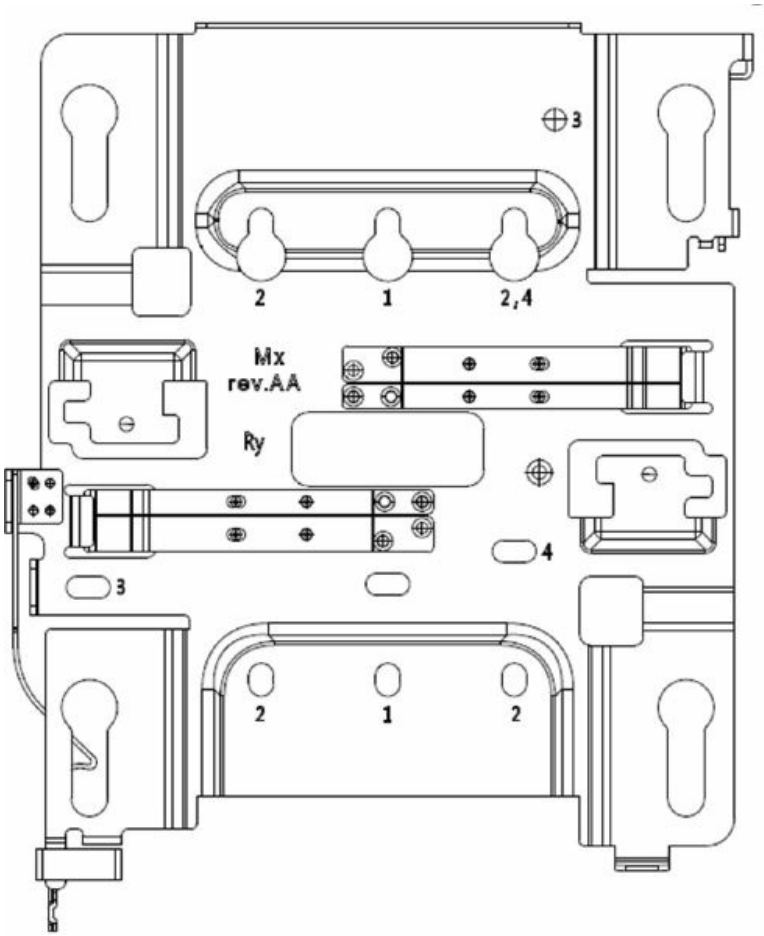
I/O ports



Reset	Reset to the factory default settings
Eth0+PoE	100/1000/2500/5000BASE-T RJ45 interface that supports 802.3at/802.3bt PoE PD
USB	USB2.0 support interface

AP34 Mounting

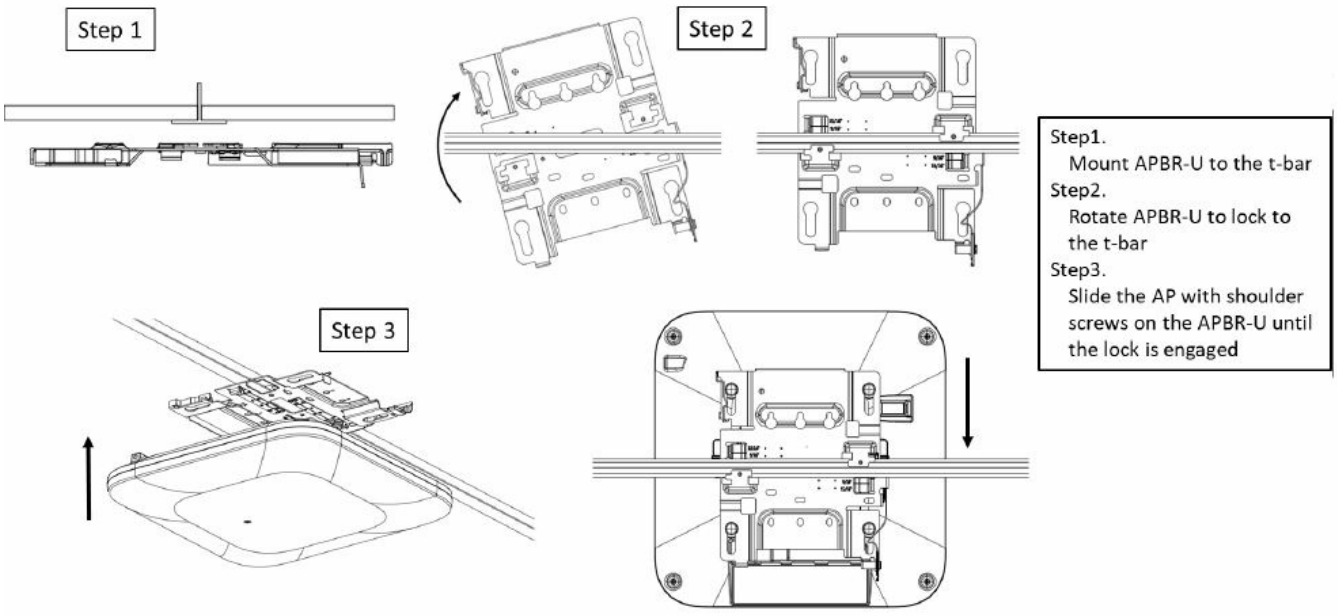
APBR-U Mounting box options



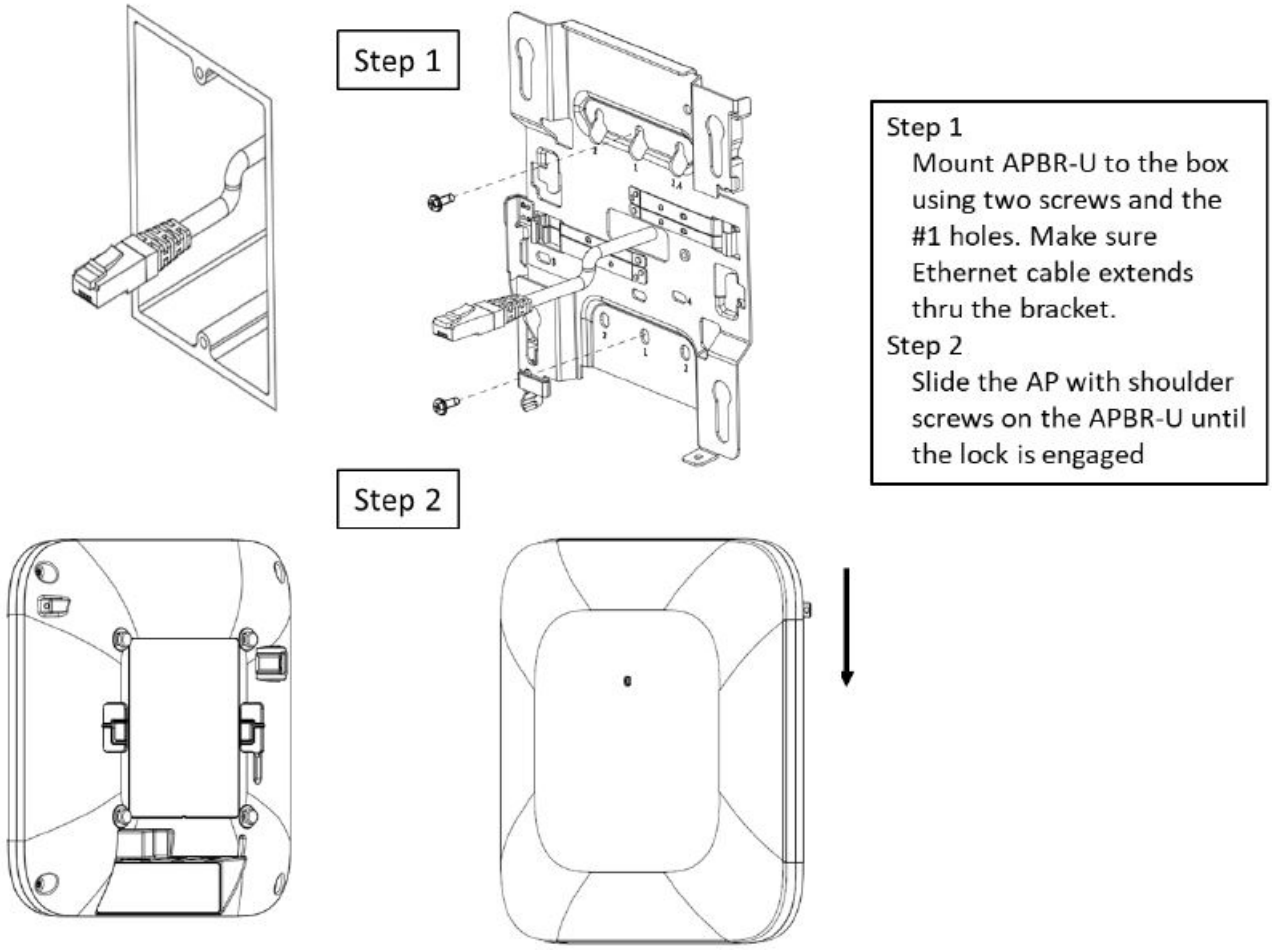
Holes	Mounting options
1	US Single gang, 4 inch round, 3.5 inch round
2	US Double gang, Wall/ceiling mount
3	US 4 inch square
4	EU junction box

- In a wall mount installation, please use screws that have a 1/4in. (6.3mm) diameter head with a length at least 2 in. (50.8mm).
- APBR-U is in the AP34 box which includes a set screw and an eyehook.

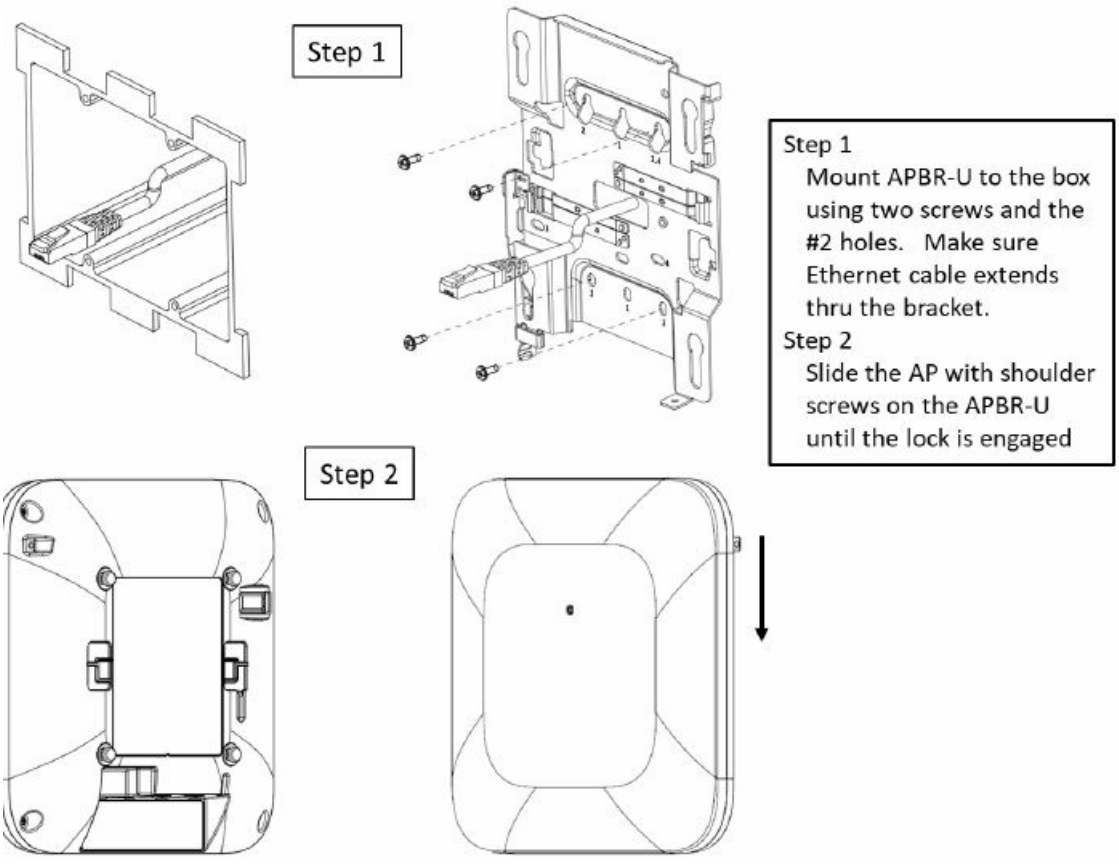
Mounting to a 9/16 inch or 15/16 inch T-bar



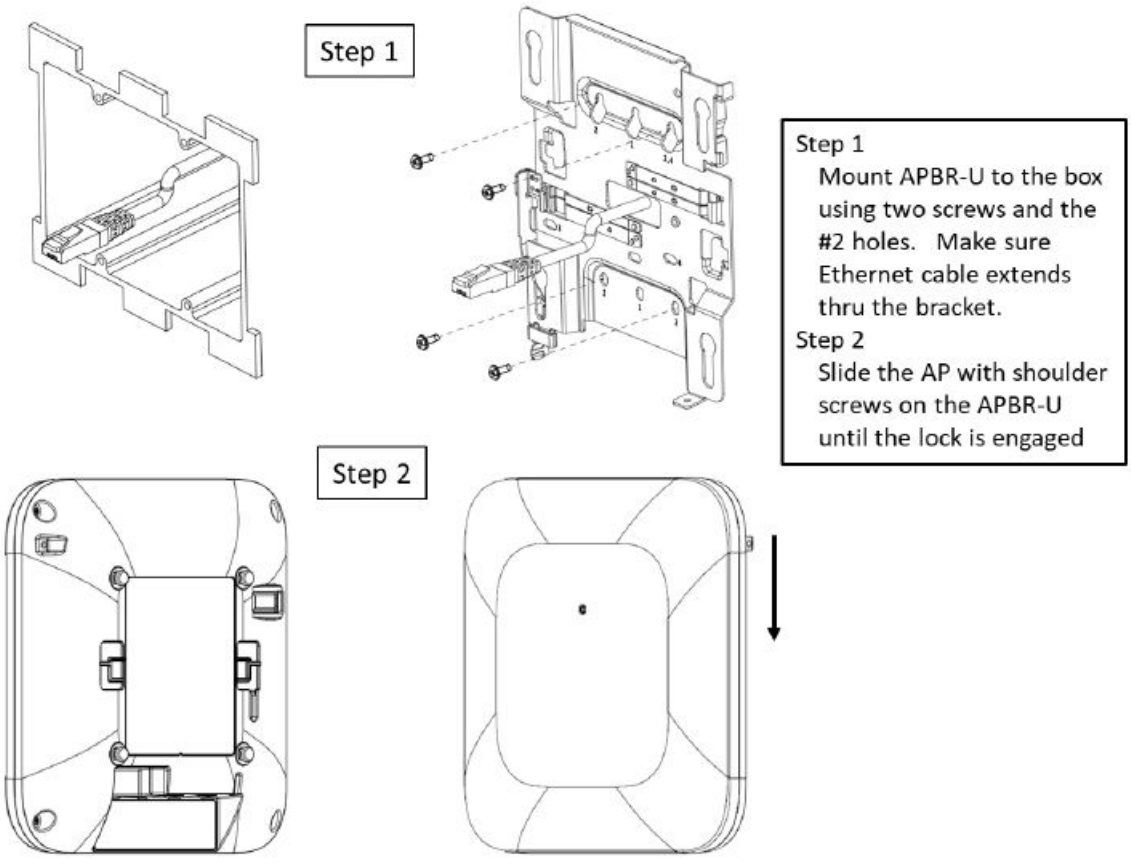
US single gang, 3.5 or 4 inch round junction box



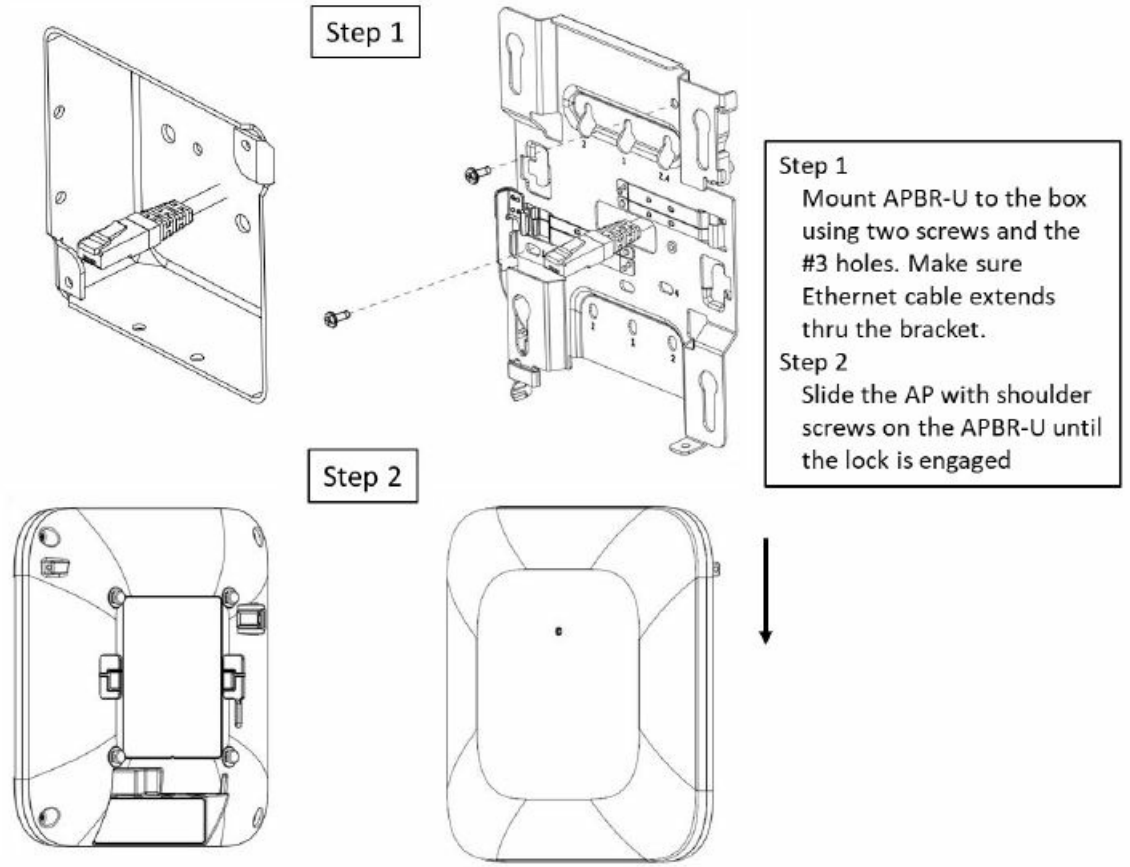
US double gang junction box



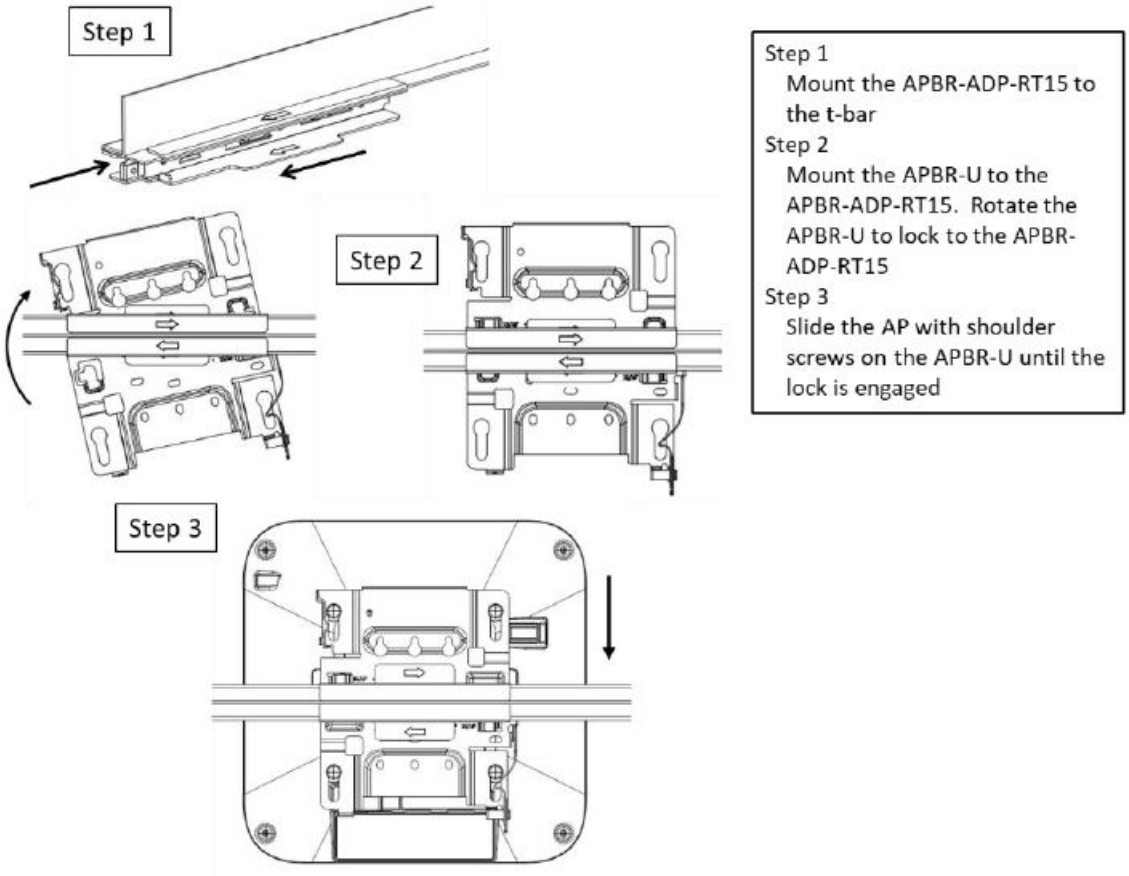
US 4 inch square junction box



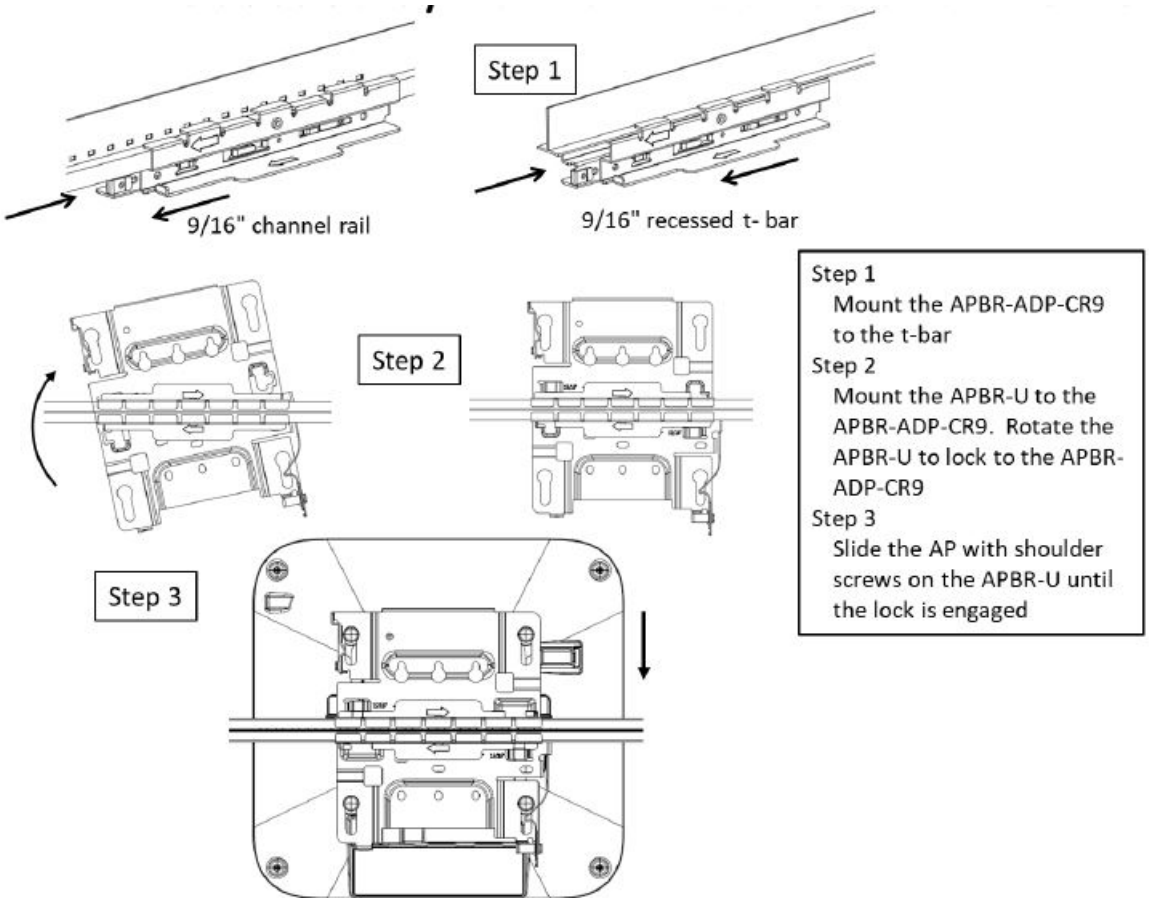
EU junction box



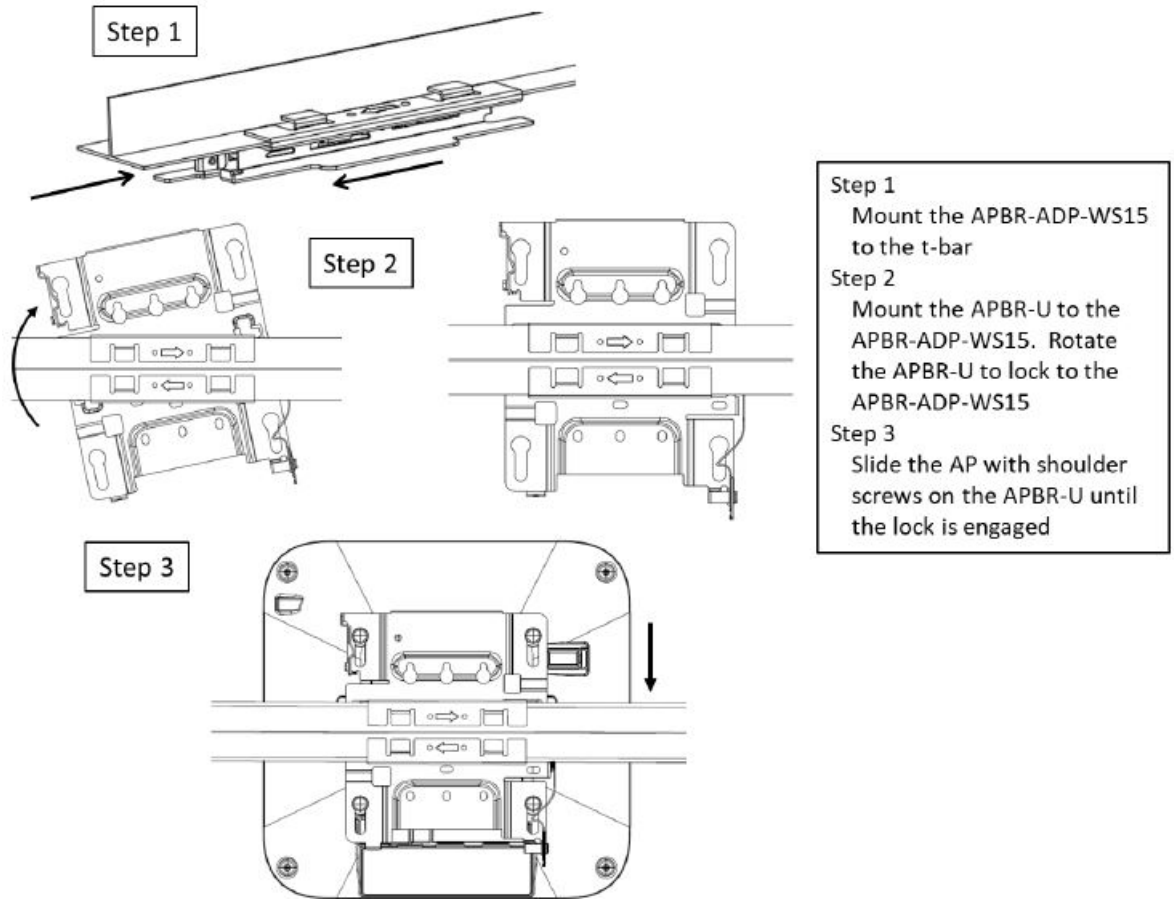
Recessed 15/16 inch T-bar



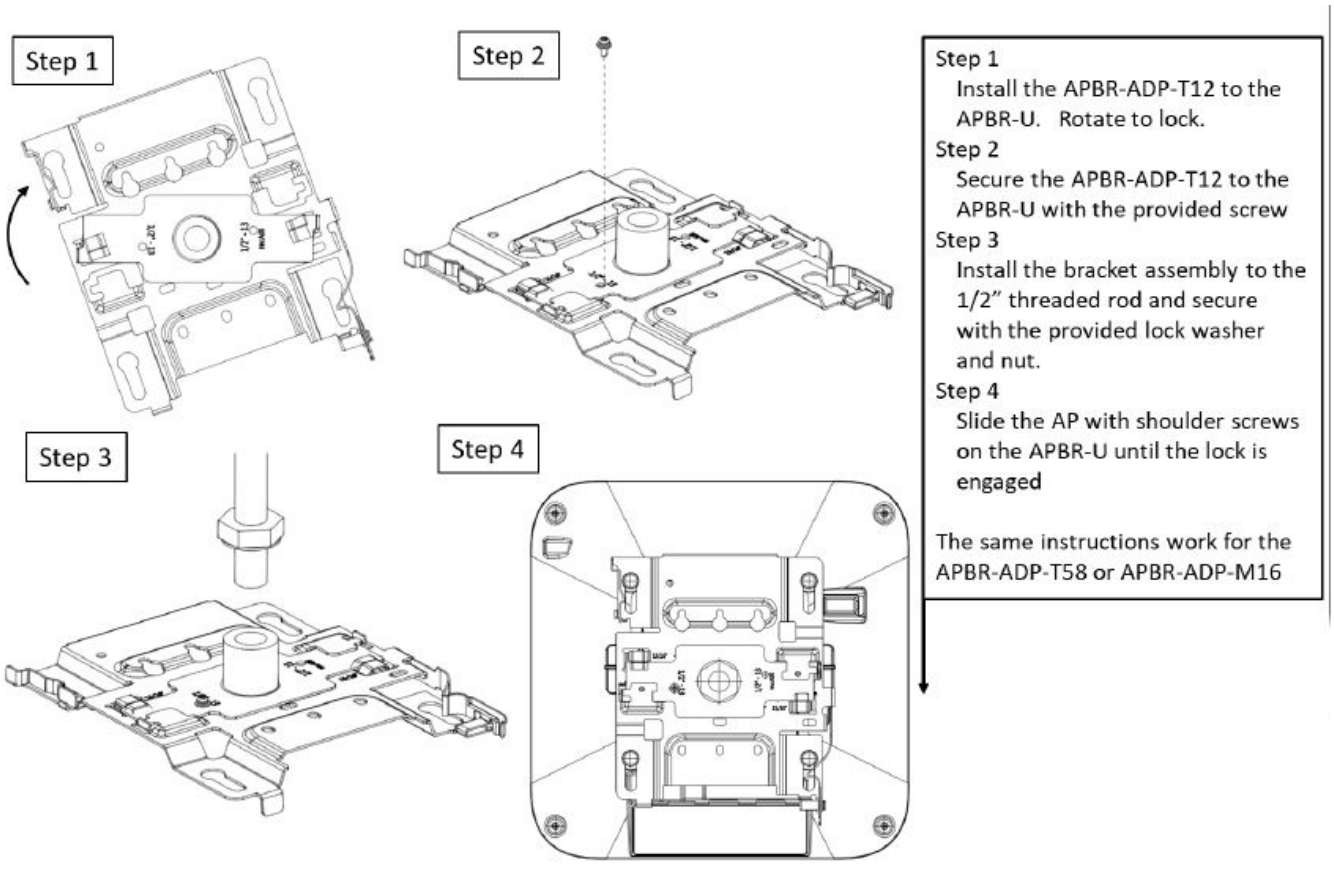
Recessed 9/16 inch T-bar or channel rail



1.5 inch T-bar



Threaded rod adapter (1/2″, 5/8″, or M16)



Technical Specifications

Feature	Description
Power options	802.3at/802.3bt PoE
Dimensions	230mm x 230mm x 50mm (9.06in x 9.06in x 1.97in)
Weight	AP34: 1.25 kg (2.74 lbs)
Operating temperature	AP34: 0° to 40° C
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 – 100/1000/2500/5000BASE-T auto-sensing RJ-45 with PoE USB2.0
RF	2.4GHz – 2×2:2SS 802.11ax MU-MIMO & SU-MIMO 5GHz – 2×2:2SS 802.11ax MU-MIMO & SU-MIMO 6GHz – 2×2: 2SS 802.11ax MU-MIMO & SU-MIMO 2.4GHz / 5GHz /6GHz scanning radio 2.4GHz BLE
Maximum PHY rate	Total maximum PHY rate – 4175 Mbps 6GHz – 2400 Mbps 5GHz – 1200 Mbps 2.4GHz – 575 Mbps
Indicators	Multi-color status LED
Safety standards	UL 62368-1 CAN/CSA-C22.2 No. 62368-1-14 UL 2043 ICES-003:2020 Issue 7, Class B (Canada)

Suitable for use in environmental air space in accordance with Section 300-22(C) of the National Electrical Code, and Sections 2-128, 12-010(3), and 12-100 of the Canadian Electrical Code, Part 1, CSA C22.1.

Warranty Information

The AP34 family of Access Points comes with a limited lifetime warranty.
Ordering Information
Access Points

AP34-US	802.11ax 6E 2+2+2 – Internal Antenna for the US Regulatory domain
AP34-WW	802.11ax 6E 2+2+2 – Internal Antenna for the WW Regulatory domain

Mounting brackets

APBR-U	Universal AP Bracket for T-Rail and Drywall mounting for Indoor Access Points
APBR-ADP-T58	Adapter for 5/8-inch threaded rod bracket
APBR-ADP-M16	Adapter for 16mm threaded rod bracket
APBR-ADP-T12	Adapter for 1/2-inch threaded rod bracket
APBR-ADP-CR9	Adapter for channel rail and recessed 9/16” t-rail
APBR-ADP-RT15	Adapter for recessed 15/16″ t-rail
APBR-ADP-WS15	Adapter for recessed 1.5″ t-rail

Power Supply options

- 802.3at or 802.3bt PoE power

Regulatory Compliance Information

- This product and all interconnected equipment must be installed indoors within the same building, including the associated LAN connections as defined by the 802.3at Standard.
- Operations is restricted to indoor usage only.
- If you need further assistance with purchasing the power source, please contact Juniper Networks, Inc.

FCC STATEMENT

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; AP34 –

41cm.
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

- Professional installation is required.
- 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.
- FCC regulations restrict the operation of this device to indoor use only.
- The 5.925 ~ 7.125GHz operation of this device is prohibited on oil platforms, cars, trains, boats, and aircraft, except that operation of this device is permitted in large aircraft while flying above 10,000 feet.
- Operation of transmitters in the 5.925-7.125 GHz band is prohibited for control of or Communications with unmanned aircraft systems.

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

- 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;
- Operation shall be limited to indoor use only.
- Operation on oil platforms, cars, trains, boats and aircraft shall be prohibited except for on large aircraft flying above 10,000 ft.

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 between the radiator & your body.

CE

- Hereby, Juniper Networks, Inc. declares that the radio equipment type (AP34) 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

Frequency range (MHz)	Maximum EIRP in EU (dBm)
2400 – 2483.5	9.96

WLAN

Frequency range (MHz)	Maximum EIRP in EU (dBm)
2400 – 2483.5	19.99
5150 – 5250	22.97
5250 – 5350	22.97
5500 – 5700	27.48
5745 – 5825	13.96
5945 – 6425	22.99

- 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 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 types (AP34) is in compliance with Radio Equipment Regulations 2017.
- The full text of the UK declaration of conformity is available at the following: **https://www.mist.com/support/**

- The frequency and maximum transmitted Power in UK:

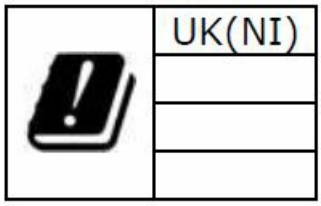
Bluetooth

Frequency range (MHz)	Maximum EIRP in UK (dBm)
2400 – 2483.5	9.96

WLAN

Frequency range (MHz)	Maximum EIRP in UK (dBm)
2400 – 2483.5	19.99
5150 – 5250	22.97
5250 – 5350	22.97
5500 – 5700	27.48
5745 – 5825	22.97
5925 – 6425	22.99

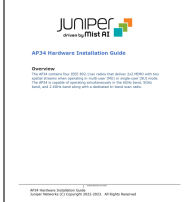
- This equipment complies with UK radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.
- The device is restricted to indoor use only when operating in 5150 to 5350 MHz and 5925 to 6425MHz frequency ranges.



Japan

- AP34 Access Points are restricted to indoor use only when operating in 5150-5350MHz and 5925 to 6425MHz frequency ranges.

Documents / Resources

	**Juniper NETWORKS AP34 Access Point** [pdf] Installation Guide AP34, AP34 Access Point, Access Point, Point

References

- **Support - Mist**