

Aruba RAP-3 Remote Access Point

Installation Guide

The Aruba RAP-3WN and RAP-3WNP are single-radio, single-band wireless access points (AP) that support the IEEE 802.11n standard for high-performance WLAN. These access points use MIMO (Multiple-in, Multiple-out) technology and other high-throughput mode techniques to deliver high-performance, 802.11n 2.4 GHz functionality while simultaneously supporting existing 802.11 b/g wireless services.

The RAP-3 ships with Aruba Instant software. Therefore, out of the box, the RAP-3 will operate as a Virtual Controller (VC) or an Instant AP. However, the RAP-3 can be converted to operate as a Remote AP (RAP). For information about the IAP to RAP conversion, see [RAP Conversion](#).



The RAP-3 requires Aruba Instant 3.0 to operate as a Instant AP and ArubaOS 6.1.4.0 to operate as a Remote AP.

- Wireless transceiver
- Protocol-independent networking functionality
- IEEE 802.11b/g/n operation as a wireless access point
- IEEE 802.11b/g/n operation as a wireless air monitor
- Compatibility with IEEE 802.3af PoE

Package Contents

- 1x RAP-3WN or RAP-3WNP Access Point
- 1x Installation Guide (this document)
- 1x Aruba Instant Quick Start Guide
- 1x RJ-45 Ethernet Cable
- 1x 12V Power Adapter (RAP-3WN only)
- 1x 48V Power Adapter (RAP-3WNP only)



The 48V power adapter that ships with the RAP-3WNP does not come with a country specific power cord. This cord must be ordered separately.



Inform your supplier if there are any incorrect, missing, or damaged parts. If possible, retain the carton, including the original packing materials. Use them to repack the product in case there is a need to return it.

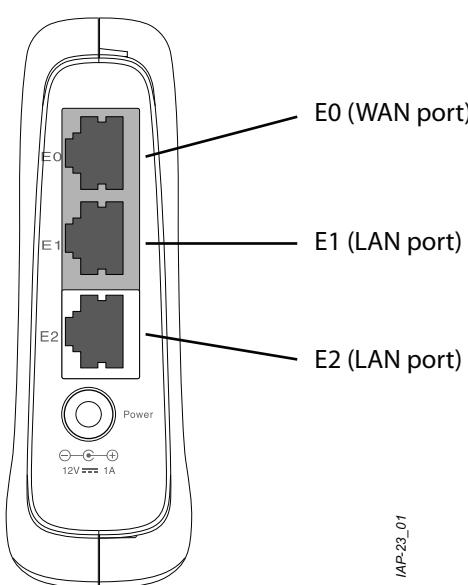
Before You Begin

Before installing your RAP-3 Remote Access Point, please ensure you have the following:

- RAP-3 (included)
- 1 x RJ-45 Ethernet Cable (included)
- 1 x Power Adapter (included)

RAP-3 Overview

Figure 1 Rear View (RAP-3WN Shown)



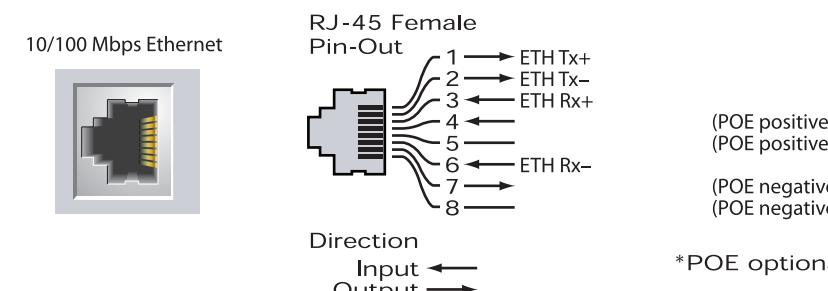
10/100Base-T Ethernet Ports

The RAP-3 has three 10/100Base-T (RJ-45) Ethernet ports for wired network connectivity.

- E0: WAN port (top)
- E1: LAN port (middle)
- E2: LAN port (bottom)

On the RAP-3WNP, port E2 has PoE power sourcing capability (PSE) to supply power to any compliant 802.3af powered device (class 0-4).

Figure 2 Fast Ethernet Port Pin Out



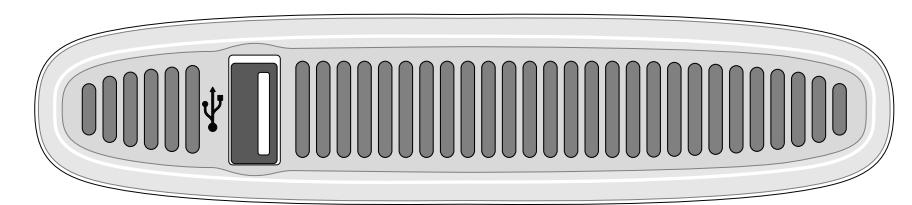
DC IN (Power Socket)

The RAP-3 power adapter (included) connects to the DC IN port. The RAP-3 does not have an On/Off switch. The device turns on when the power adapter is attached and plugged into a power outlet. The device turns off when you disconnect the power adapter from the power source (outlet).

NOTE The RAP-3WN ships with a 12V power supply and the RAP-3WNP ships with a 48V power supply. These power supplies are not interchangeable.

Top View

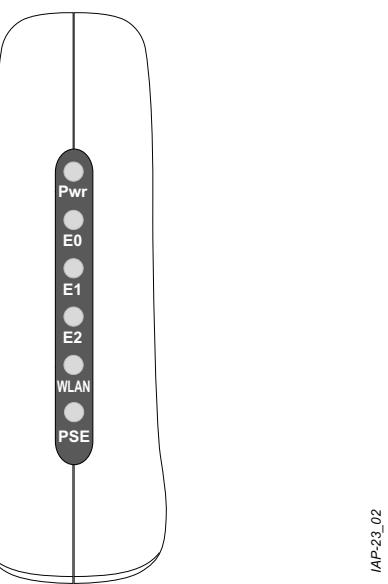
Figure 3 Top View



USB Port

The RAP-3 is equipped with a USB port to support cellular modems.

Figure 4 Bottom View (RAP-3WNP Shown)



LEDs

The RAP-3WN has five LED indicators that display the status of the device. The RAP-3WNP has an additional LED called PSE.

- PWR: When lit, the RAP-3 is powered on
- E0: Indicates activity and/or status on this port
- E1: Indicates activity and/or status on this port
- E2: Indicates activity and/or status on this port
- WLAN: Indicates wireless status and activity
- PSE (RAP-3WNP only): Indicated the PSE status on the RAP-3WNP

LED	Color(s)	Activity	Action
PWR	Green	On	Power on
		Off	No power
WLAN	Green	Off	Wireless is inactive
		On	Wireless is active
		Flashing	Radio mode
Ports (E0, E1, E2)	Green	Off	No link
		On	Link established
		Flashing	Ethernet activity

LED	Color(s)	Activity	Action
PSE	Green	Off	Not sourcing PoE power
		On	Sourcing PoE power to an 802.3af Powered Device
		Flashing	PoE power sourcing error

Reset Button

The RAP-3 is equipped with a reset button, that when pushed, resets the device to factory default settings. The reset button is located on the bottom of the device and is recessed in a small, round hole.

To reset the RAP-3, insert a small, narrow object, such as a pin or paperclip, into the hole and press and hold the button while powering on the RAP-3. This will return the device to factory default settings.

RAP-3 Installation

Tabletop Mounting

The RAP-3 is shipped with a stand to use on flat (i.e. table top) surfaces. Place the RAP-3 in the stand (see [Figure 5](#)) and place the stand on a flat, level surface.

Figure 5 Stand Installation

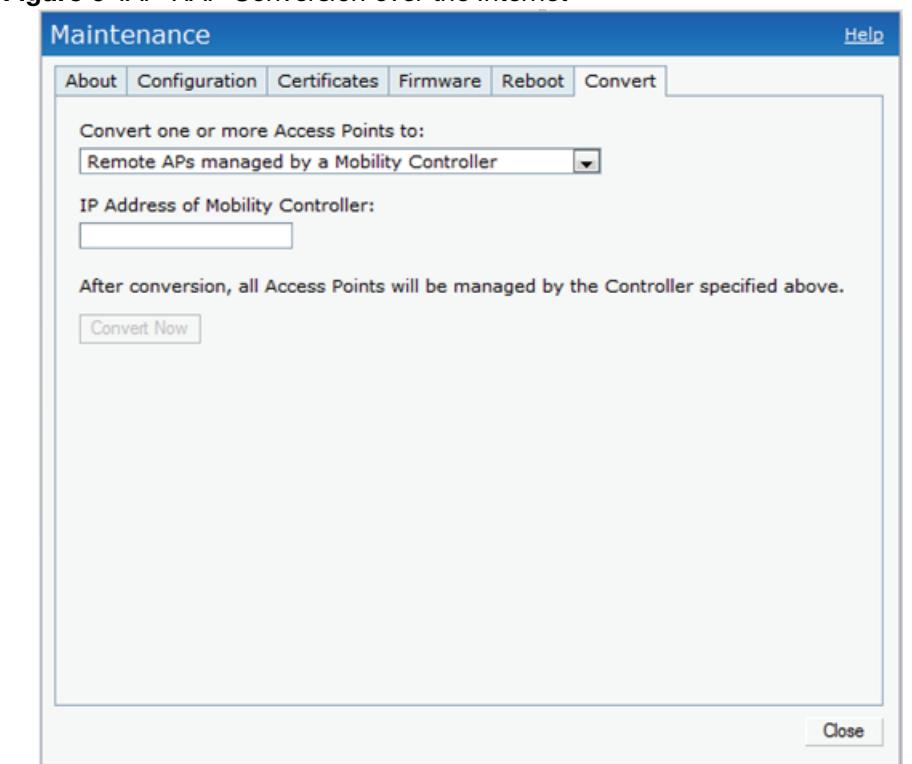


RAP Conversion

If your network administrator has instructed you to convert the RAP-3 to work in RAP mode, follow the process below to complete the RAP conversion.

1. Power up the RAP-3.
2. Connect to **Instant SSID**.
3. Login to the RAP-3 by navigating to <http://instant.arubanetworks.com> and login to the Instant WebUI. The default username is **admin** and the default password is **admin**. See the included *Aruba Instant Quick Start Guide* for more information.
4. Navigate to the **Maintenance** tab in the top right.
5. Click on the **Convert** tab.
6. Select **Remote APs managed by a Mobility Controller** from the drop down menu.
7. Enter the IP address of the controller. This is provided by your network administrator.
8. Click **Convert Now** to complete the conversion (see [Figure 6](#)).
9. The RAP-3 will reboot and begin operating in RAP mode.

Figure 6 IAP-RAP Conversion over the Internet



Product Specifications

Electrical

- Ethernet:
 - 3 x 10/100Base-T auto-sensing Ethernet RJ-45 Interfaces
 - MDI/MDX
 - IEEE 802.3 (10Base-T), IEEE 802.3u (100Base-T).
- Power - RAP-3WNP:
 - 48VDC power interface, supports powering through an AC-to-DC power adapter
- Power -RAP-3WN:
 - 12 VDC power interface, supports powering through an AC-to-DC power adapter



If a power adapter other than the one provided by Aruba Networks is used in the US or Canada, it should be NRTL Listed, with appropriate voltage and current rating, marked "LPS" or "Class 2," and suitable for plugging into a standard power receptacle in the US and Canada.

For additional specifications on this product, please refer to the data sheet. The data sheet can be found at www.arubanetworks.com.

Proper Disposal of Aruba Equipment

For the most current information about Global Environmental Compliance and Aruba products, see our website at www.arubanetworks.com.

Waste of Electrical and Electronic Equipment



Aruba products at end of life are subject to separate collection and treatment in the EU Member States, Norway, and Switzerland and therefore are marked with the symbol shown at the left (crossed-out wheelie bin). The treatment applied at end of life of these products in these countries shall comply with the applicable national laws of countries implementing Directive 2002/96/EC on Waste of Electrical and Electronic Equipment (WEEE).

European Union RoHS

RoHS Aruba products also comply with the EU Restriction of Hazardous Substances Directive 2002/95/EC (RoHS). EU RoHS restricts the use of specific hazardous materials in the manufacture of electrical and electronic equipment. Specifically, restricted materials under the RoHS Directive are Lead (including Solder used in printed circuit assemblies), Cadmium, Mercury, Hexavalent Chromium, and Bromine. Some Aruba products are subject to the exemptions listed in RoHS Directive Annex 7 (Lead in solder used in printed circuit assemblies). Products and packaging will be marked with the "RoHS" label shown at the left indicating conformance to this Directive.

China RoHS

Aruba products also comply with China environmental declaration requirements and are labeled with the "EFUP 10" label shown at the left.



有毒有害物质声明

Hazardous Materials Declaration

有毒有害物质声明						
Hazardous Materials Declaration						
部件名称 (Parts)	有毒有害物质或元素 (Hazardous Substance)					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr ⁶⁺)	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
电源板 (PCA Board)	×	○	○	○	○	○
机械组件 (Mechanical Sub-Assemblies)	×	○	○	○	○	○

○：表示该有害物质在该部件所有均质材料中的含量均在 SJ/T11363-2006 标准规定的限量要求以下。Indicates that the concentration of the hazardous substance in all homogeneous materials in the parts is below the relevant threshold of the SJ/T11363-2006 standard.

×：表示该有害物质至少在该部件的某一均质材料中的含量超过了 SJ/T11363-2006 标准规定的限量要求。Indicates that the concentration of the hazardous substance of at least one of all homogeneous materials in the parts is above the relevant threshold of the SJ/T11363-2006 standard.

对销售之日的所有产品，本表显示的电子信息产品可能包含这些物质。
This table shows where these substances may be found in the supply chain of electronic information products, as of the date of sale of the enclosed product.

此标志为针对含有某些有毒有害物质的电子信息产品的环保使用期限标志。某些零部件会有一个不同的环保使用期限，但与本标志的含义相同。The Environment-Friendly Use Period (EFUP) for all enclosed products and their parts are per the symbol shown here. The Environment-Friendly Use Period is valid only when the product is operated under the conditions defined in the product manual.



Safety and Regulatory Compliance

Aruba Networks provides a multi-language document that contains country-specific restrictions and additional safety and regulatory information for all Aruba access points. This document can be viewed or downloaded from the following location: www.arubanetworks.com/safety_addendum



Aruba access points must be installed by a professional installer. The professional installer is responsible for ensuring that grounding is available and it meets applicable local and national electrical codes.

RF Radiation Exposure Statement: This equipment complies with FCC RF radiation exposure limits. This equipment should be installed and operated with a minimum distance of 7.87 inches (20cm) between the radiator and your body for 2.4 GHz operations. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

EMC Compliance and Warning Statement

FCC Class B Part 15

This device complies with Part 15 of the Federal Communications Commission (FCC) Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.



Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

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Installation Guide



Contacting Aruba Networks

Web Site Support

Main Site	http://www.arubanetworks.com
Support Site	https://support.arubanetworks.com
Software Licensing Site	https://licensing.arubanetworks.com/login.php
Wireless Security Incident Response Team (WSIRT)	http://www.arubanetworks.com/support/wsirt.php
Americas and APAC Support Email	support@arubanetworks.com
EMEA Support Email	emea.support@arubanetworks.com
WSIRT Email	Please email details of any security problem found in an Aruba product. wsirt@arubanetworks.com

Telephone Support

Aruba Corporate	+1 (408) 227-4500
FAX	+1 (408) 227-4550
Support	
United States	800-WI-FI-LAN (800-943-4526)
Universal Free Phone Service Number (UFPN): Australia, Canada, China, France, Germany, Hong Kong, Ireland, Israel, Japan, Korea, Singapore, South Africa, Taiwan, and the UK	+800-4WIFI-LAN (+800-49434-526)
All Other Countries	+1 (408) 754-1200

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http://www.arubanetworks.com/open_source

Legal Notice

The use of Aruba Networks, Inc. switching platforms and software, by all individuals or corporations, to terminate other vendors' VPN client devices constitutes complete acceptance of liability by that individual or corporation for this action and indemnifies, in full, Aruba Networks, Inc. from any and all legal actions that might be taken against it with respect to infringement of copyright on behalf of those vendors.

Warranty

This hardware product is protected by the standard Aruba warranty of one year parts/labor. For more information, refer to the ARUBACARE SERVICE AND SUPPORT TERMS AND CONDITIONS.
Altering this device (such as painting it) voids the warranty.



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