

Aruba 2930F 8G PoE+ Switch Quick Setup Guide and Safety/Regulatory Information



a Hewlett Packard
Enterprise company



Part Number: 5200-4437
Published: October 2017
Edition: 1, Printed in China

Notices

The information contained herein is subject to change without notice. The only warranties for Hewlett Packard Enterprise products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. Hewlett Packard Enterprise shall not be liable for technical or editorial errors or omissions contained herein.

Confidential computer software. Valid license from Hewlett Packard Enterprise required for possession, use, or copying. Consistent with FAR 12.211 and 12.212, Commercial Computer Software, Computer Software Documentation, and Technical Data for Commercial Items are licensed to the U.S. Government under vendor's standard commercial license.

Links to third-party websites take you outside the Hewlett Packard Enterprise website. Hewlett Packard Enterprise has no control over and is not responsible for information outside the Hewlett Packard Enterprise website.

Acknowledgments

Intel[®], Itanium[®], Pentium[®], Intel Inside[®], and the Intel Inside logo are trademarks of Intel Corporation in the United States and other countries.

Microsoft[®] and Windows[®] are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.

Adobe[®] and Acrobat[®] are trademarks of Adobe Systems Incorporated.

Java[®] and Oracle[®] are registered trademarks of Oracle and/or its affiliates.

UNIX[®] is a registered trademark of The Open Group.

Applicable products

Aruba 2930F 8G PoE+ 2SFP+ Switch

JL258A

Applicable products.....	0
--------------------------	---

Chapter 1 Aruba 2930F 8G Switch Quick Setup Guide and Safety/Regulatory Information.....	4
Aruba 2930F warm product and other mounting information.....	4
Installation precautions.....	4
Power supply operation.....	5
Prepare for installation.....	6
Mounting the JL258A Aruba2930F 8-port switch.....	7
(Optional) Attaching the JL312A Power Adapter Shelf to the Aruba 2930F 8G switch.....	8
(Optional) Attaching the JL311A cable guard to the Aruba 2930F 8G switch.....	8
Mounting the Aruba 2930F 8G switch without a cable guard.....	9
Rack mounting.....	9
Tabletop or desktop mounting.....	9
Wall or under-table mount.....	10
Connecting the switch to the network.....	11
SFP/SFP+ installation notes.....	14
Use only genuine Aruba SFP/SFP+ transceivers.....	14
Hot Swapping SFP/SFP+ transceivers.....	14
SFP/SFP+ connections to devices with fixed speed/duplex configurations.....	14
Switch Operating System Software.....	14
Power cords.....	14
Safety and compliance information.....	15
Aruba 2930F Switch Safety and Regulatory Information.....	15
Japan VCCI Class A.....	17
Korea EMC class A statement.....	17
EAC.....	17
Documentation feedback.....	17



The switch drawings in this document are for illustration only and may not match your particular switch model.



For switch and accessories installation information, browse to the manuals for your switch model at www.hpe.com/networking/ResourceCenter.

Aruba 2930F warm product and other mounting information

- If you are mounting the Aruba 2930F 8G switch in a rack with other products, the preferred position for the switch is at the base of the rack (for optimal cooling), or below as many of the other products as can be accommodated, while still ensuring that the Installation Precautions (under the WARNING!, below) regarding weight distribution are observed.
- When mounted in a rack, ensure that a 1U (44.45 mm / 1.75-inch) vertical rack space exists between the Aruba 2930F 8G switch and the device above it.
- When mounting the Aruba 2930F 8G switch on a wall, under a table, or on a horizontal surface, ensure that the supplied four rubber mounting feet are placed on the bottom of the switch, as shown (under **Tabletop or desktop mounting** on page 9). This is required to provide the proper thermal spacing between the switch and the mounting surface.
- Avoid obstructing the ventilation holes on the top, sides, and back of the switch.
- **Do not** install the Aruba 2930F 8G switch in a confined space that does not allow a free air flow.
- When installing the switch in an enclosed space containing free air flow, ensure that any adjacent surfaces are at least 15.3 cm (6 inches) from the sides and back of the switch.

Installation precautions



- The rack or cabinet should be adequately secured to prevent it from becoming unstable and/or falling over.
- Devices installed in a rack or cabinet should be mounted as low as possible, with the heaviest devices at the bottom and progressively lighter devices installed above.



- Do not ship any switch in a rack without checking for restrictions in the Aruba 2930F Switches Installation and Getting Started Guide. Otherwise, you may void the switch warranty.
- Ensure the power source circuits are properly grounded, then use the power cord supplied with the switch to connect the AC adapter to the power source.
- Use only approved power cords with your Aruba Networking Product. Please see the power cord information (**Power cords**) of this guide for acceptable power cords that are appropriate for this product. Failure to use approved power cords can result in personal injury and product damage, and may void your product warranty.
- If your installation requires a different power cord than the one supplied with the switch and AC adapter, be sure the cord is adequately sized for the AC adapter's current requirements. In addition, be sure to use a power cord displaying the mark of the safety agency that defines the regulations for power cords in your country. The mark is your assurance that the power cord can be used safely with the switch's AC adapter and power supply.
- When installing the switch, the AC outlet should be near the switch and should be easily accessible in case the switch's AC adapter must be powered off.
- Do not install the switch in an environment where the operating ambient temperature exceeds its specification. See the section titled **Aruba 2930F Switch Safety and Regulatory Information** on page 15.
- Ensure the switch's AC adapter does not overload the power circuits, wiring, and over-current protection. To determine the possibility of overloading the supply circuits, add together the ampere ratings of all devices installed on the same circuit as the switch's AC adapter and compare the total with the rating limit for the circuit. The maximum ampere ratings are usually printed on the devices, near the AC power connectors.
- For a wall-mounted Aruba 2930F 8G Switch (JL258A), face the network ports up, that is, away from the floor. Do not wall-mount the switch with the network ports facing down (towards the floor).
- Do not install the Aruba 2930F 8G PoE+ 2SFP+ switch in an environment where the operating ambient temperature might exceed its specification. When mounting the switch in a rack, ensure that a 1U (44.45mm/1.75-inch) vertical space is left for cooling between the switch and the device above it, and at least 15.3 cm (6 inches) of space around the sides and back of the switch. When mounted in a fully enclosed rack or cabinet, ensure that the air flow for cooling around the top, sides, and back of the switch is not restricted. Installing the Aruba 2930F 8G PoE+ 2SFP+ Switch in an enclosed, confined space such as a small bookshelf or unventilated cabinet is not recommended.

Power supply operation

The Aruba 2930F 8G PoE+ 2SFP Switch does not have a power switch. It is powered on when the external AC/DC power adapter is connected to the switch and the adapter power cord to a properly grounded power source. The external AC/DC power adapter automatically adjusts to any voltage between 100-240 volts and either 50 or 60 Hz. The external AC/DC power adapter supplies 54 volts DC to the switch. No voltage range settings are required.

Prepare for installation

1. Unpack and check included parts:

- Switch
- Accessory kits (installation hardware)

Part number	Count	Included items
5189–6934	2	Rack mount brackets (long)
	4	Large screws; bracket-to-rack
	8	Small screws; bracket-to-switch
5300–0140	2	Wall/under-table brackets
	8	Small screws; bracket-to-switch
	1	Cable tie
	4	Rubber foot pads

- AC power adapter (5066–5559)
- Power cord (See **Power cords**)
- Documentation kit (5200–1998)



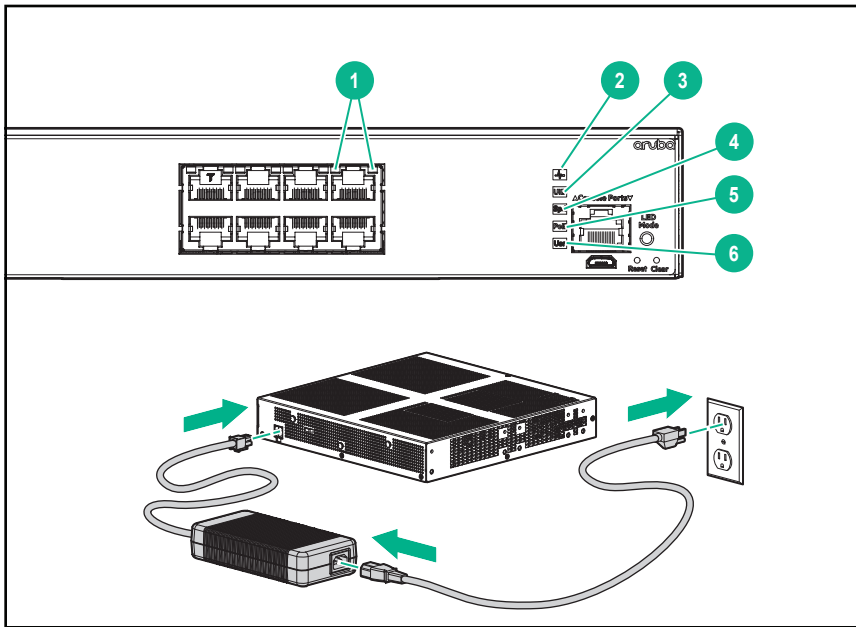
Screws for mounting the switch on a wall or under a table are not included. If you plan to mount the switch on a wall or under a table, you will need to provide four 5/8–inch number 12 wood screws.

2. Prepare for installation.



To avoid personal injury or product damage, review the **Installation precautions** before beginning the installation.

3. Power-on and verify that the self-test completes normally. An Aruba 2930F 8G switch does not contain a power on/off switch. It is turned on by connecting the power cord to the AC power adapter and to a properly-grounded AC power source, then connecting the AC adapter to the switch.



1	Port LEDs: Off after self-test unless a network cable is connected and the port is receiving link beat.
2	Global Status LED: Green after self-test in default configuration.
3	Locator/Unit-Identification LED: Off after self-test.
4	Speed Mode Selected LED: Off after self-test in default configuration.
5	PoE Mode Selected LED (Only on Aruba 2930F models that support PoE+ operation): Off after self-test in default configuration.
6	User Mode Selected: Off after self-test in default configuration.

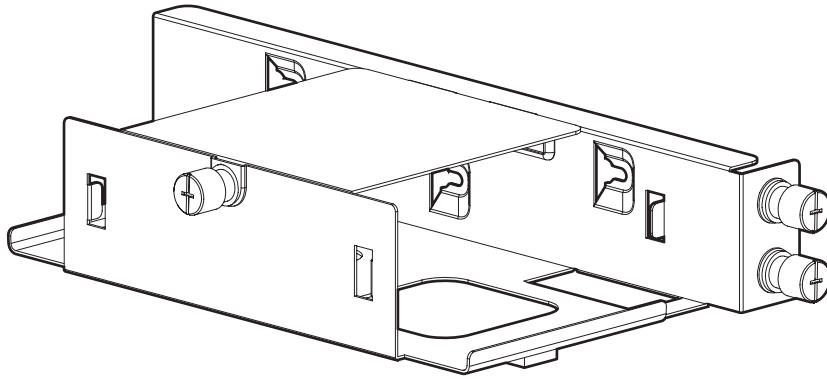
4. Disconnect the AC adapter from the switch and remove the power cord from the power source.

Mounting the JL258A Aruba2930F 8–port switch

Supported mounting options for the Aruba 2930F 8G switch include:

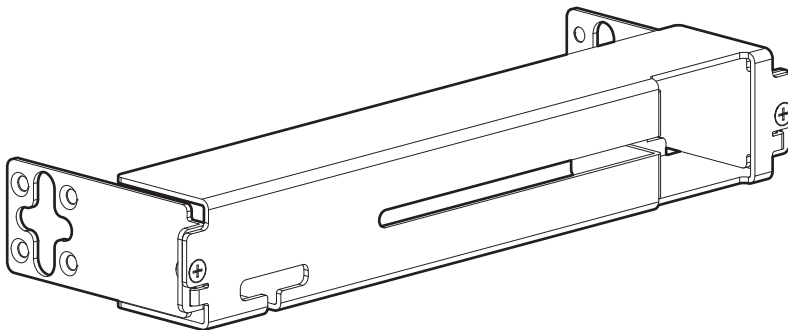
- Rack mount
- Tabletop or desktop mount
- Under-table mount
- Wall mount

(Optional) Attaching the JL312A Power Adapter Shelf to the Aruba 2930F 8G switch



To install the optional Power Adapter Shelf, see the printed instructions provided with the shelf, then return to this guide and go to the next section, **(Optional) Attaching the JL311A cable guard to the Aruba 2930F 8G switch** on page 8.

(Optional) Attaching the JL311A cable guard to the Aruba 2930F 8G switch



- If you do not have the optional J311A cable guard to attach to the switch,, go to the next section, **Mounting the Aruba 2930F 8G switch without a cable guard** on page 9
- If you have the optional J311A cable guard to attach to the switch, go to the printed instructions shipped with the cable guard to complete the setup process. After installing the optional cable guard, return to this guide or go to the Aruba 2930F Switches Installation and Getting Started Guide for information on topics such as:
 - SFP/SFP+ installation notes
 - Links to the latest software version and manuals for your switch
 - Power cords
 - Safety and regulatory information

(You can access the Installation and Getting Started Guide at www.hpe.com/networking/ResourceCenter).

Mounting the Aruba 2930F 8G switch without a cable guard

Use the instructions in this section to mount the Aruba 2930F 8G switch if you do not plan to attach the optional JL311A cable guard to the switch.

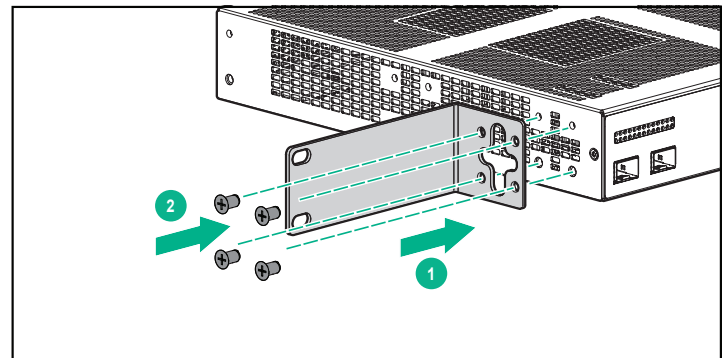
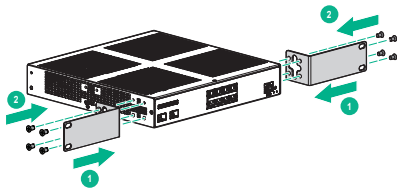
Rack mounting

Procedure

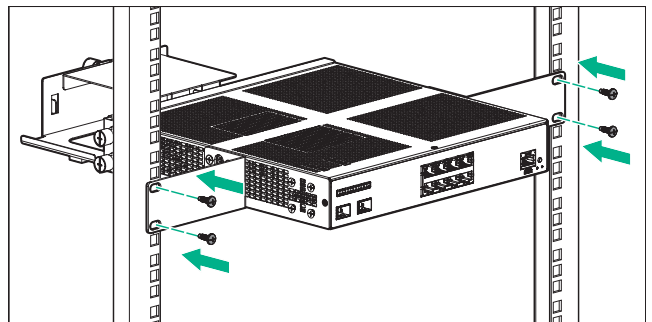
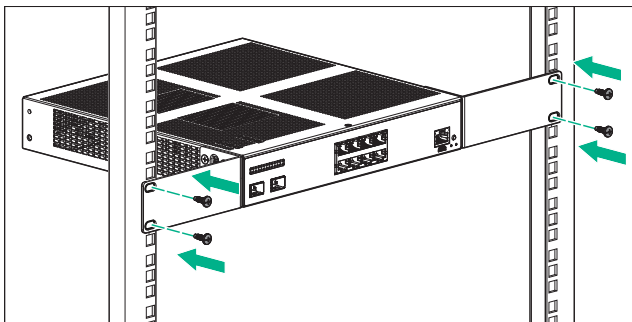
1. Install mounting brackets (included) for use in a two-post rack. You can orient the brackets to be either flush with the switch front or offset from the switch front, as illustrated below.



If the JL312A Power Adapter Shelf is installed, then position the mounting brackets over the center set of screw holes on each side of the switch instead of the forward set on each side.



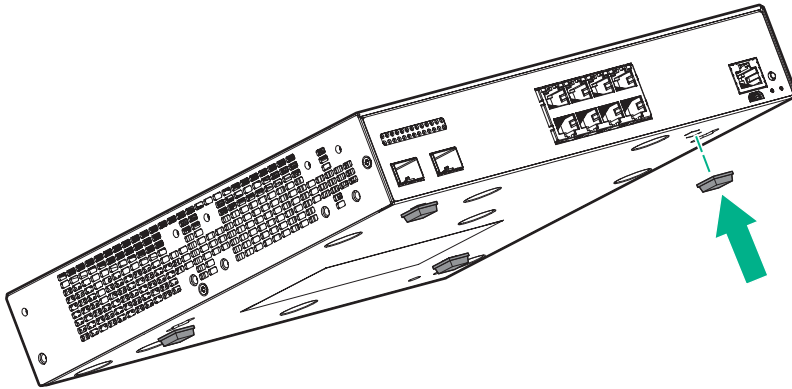
2. Secure the mounting brackets to a two-post rack. The illustration to the right shows the recommended positioning of the mounting brackets when the optional JL312A Power Adapter Shelf is used with the switch.



Tabletop or desktop mounting

Procedure

Attach the four self-adhesive pads (included) to the bottom corners of the switch and place the switch on a secure tabletop or desktop surface.



Wall or under-table mount

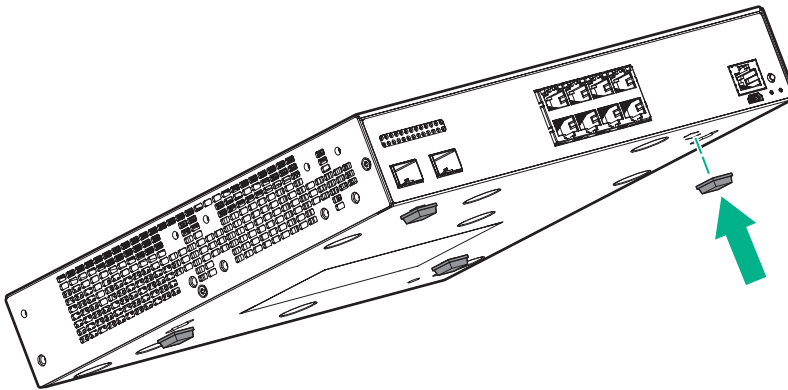
You can mount the Aruba 2930F 8G PoE+ 2SFP+ Switch on a wall with the network ports facing up, or under a table.



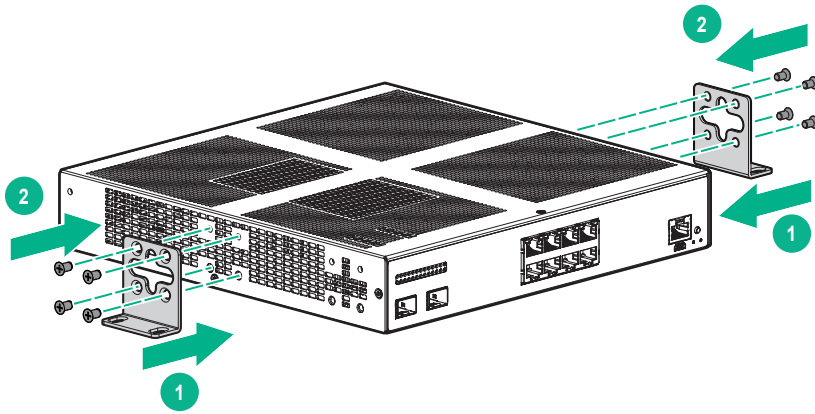
- For safe operation, do not install the switch with the side ventilation holes facing down.
- For under table mounting, the top-of-switch ventilation holes must be facing down.

Procedure

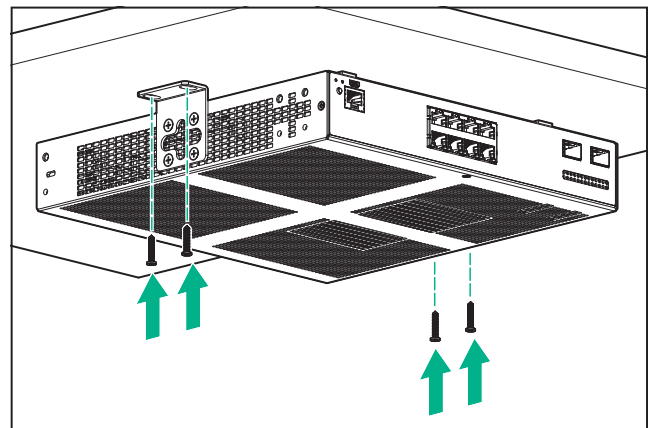
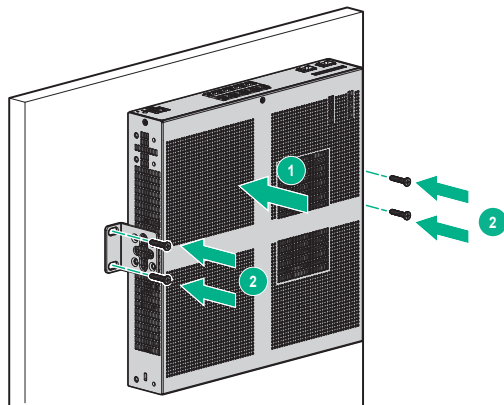
1. To help provide proper ventilation, attach the four self-adhesive pads (included) to the bottom corners of the switch.



2. Install short mounting brackets (included).

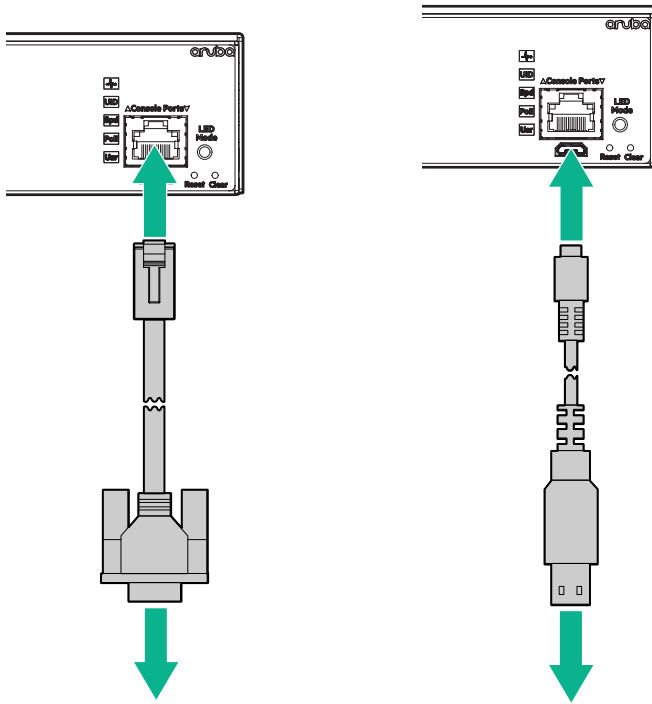


3. Secure the switch on the wall or under-table location using four 5/8-inch number 12 wood screws (not included).



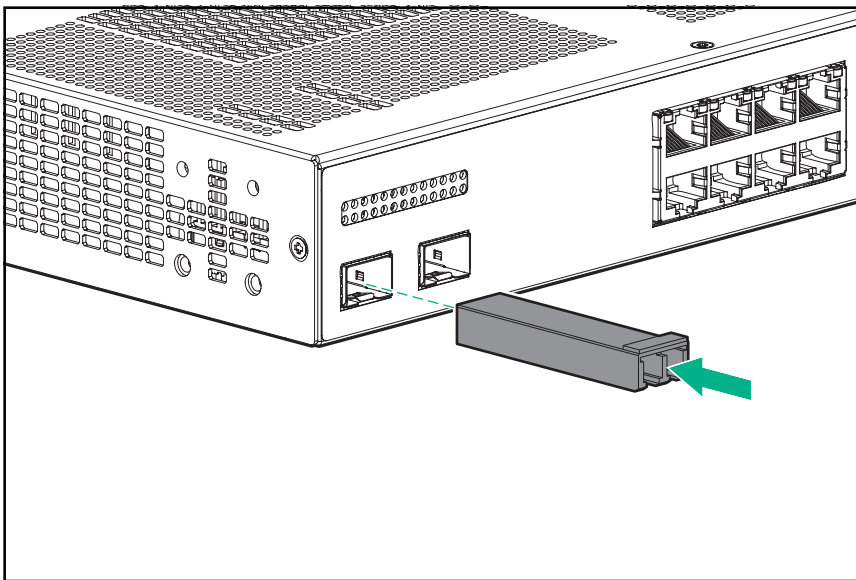
Connecting the switch to the network

1. (Optional) Connect an RJ-45 console cable (included) and/or a micro-USB console cable (not included) to a VT-100 terminal or a PC (running suitable terminal emulation software).



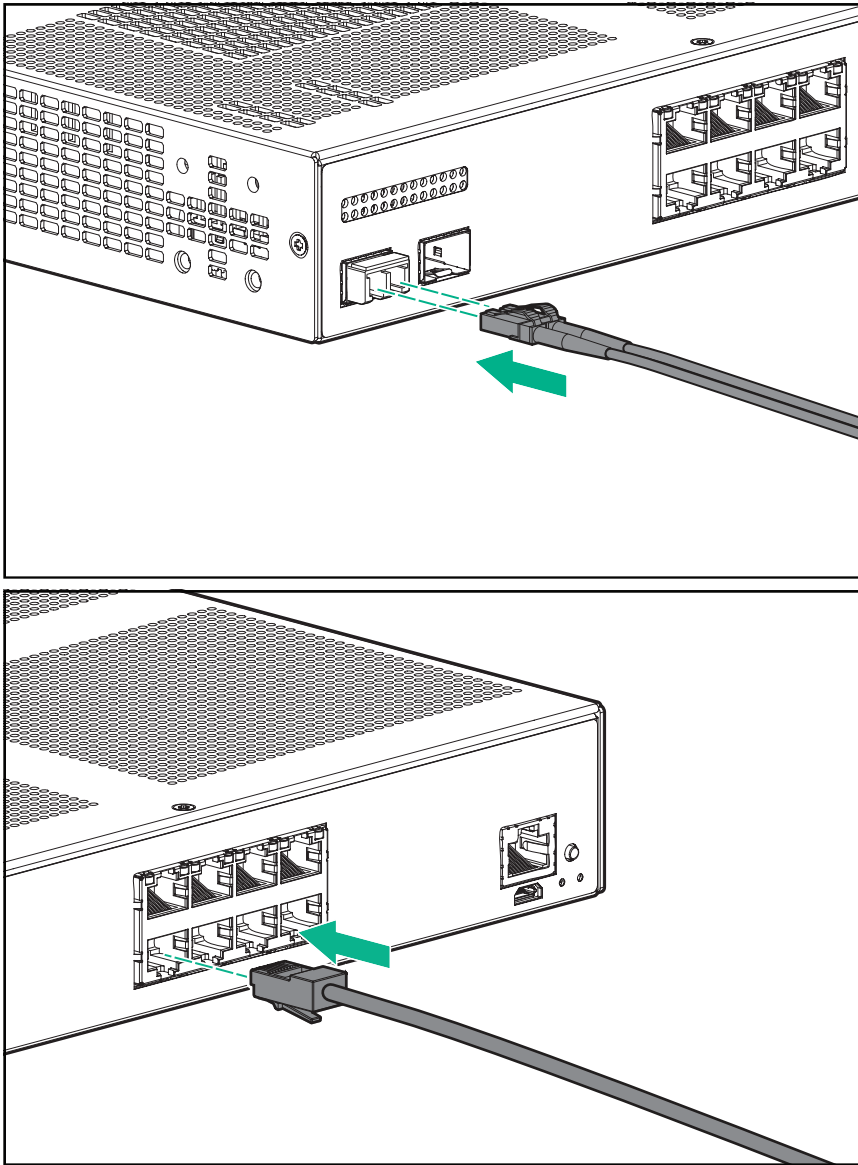
If both cables are connected, input is accepted only from the Micro USB connector. For more information, see the information on connecting a management console in the **Aruba 2930F Switches Installation and Getting Started Guide**.

2. (Optional) Insert transceivers.



To ensure proper operation of your switch, use only genuine Aruba SFP/SFP+ transceivers supported by your switch. For more information on using transceivers, see **SFP/SFP+ installation notes**.

3. Connect network cables.



In the factory default configuration, the switch automatically obtains its IP network settings from a DHCP or BootP server after connecting to the network. If you do not use direct console access to initially determine the switch IP address, you can determine the assigned IP address by inspecting your DHCP/BootP server or by querying LLDP information from another, directly connected neighbor switch. CLI LLDP commands for an ArubaOS neighbor switch are listed below.

```
show lldp info remote port_#
```

For the specified port on the neighbor switch, lists the IP address and other data for the directly connected Aruba 2930F switch (where *port_#* is the port used on the neighbor switch to access the Aruba 2930F switch you are setting up).

```
show lldp info remote all
```

Lists IP address and other data on all active ports on the neighbor switch.

SFP/SFP+ installation notes



To ensure proper operation of your switch, use only the genuine Aruba SFP/SFP+ transceivers supported by your switch. When selecting a fiber SFP device, make sure it can function at a temperature that is not less than the recommended maximum operational temperature of the product. Use only approved Laser Class 1 SFP transceivers.

Use only genuine Aruba SFP/SFP+ transceivers

Non-Aruba SFP/SFP+ transceivers are not supported. Use of genuine Aruba products ensures that your network maintains optimal performance and reliability. Should you require additional transceivers, please contact an Aruba sales representative or an authorized reseller. For transceiver support information for your switch model, see the support matrixes in the *ArubaOS-Switch Transceiver Guide* on the Hewlett Packard Enterprise Information Library at www.hpe.com/networking/ResourceCenter.

Hot Swapping SFP/SFP+ transceivers

Supported SFP/SFP+ transceivers that you can install in your Aruba switch can be “hot swapped” – removed and installed while the switch is receiving power. However, you should disconnect the network cables from the SFP/SFP+ transceivers before hot-swapping them.

When you replace an SFP/SFP+ transceiver with another of a different type, the switch may retain selected port-specific configuration settings that were configured for the replaced unit. Be sure to validate or reconfigure port settings as required.

SFP/SFP+ connections to devices with fixed speed/duplex configurations

When connecting a device to your switch port that contains an SFP/SFP+ transceiver, the speed and duplex settings of the switch port and the connected device must match. Otherwise, you may not get a link. For some older network devices, including some older Hewlett Packard Enterprise devices, the default speed/duplex settings may be predefined (for example, to 1000 Mbps/Full Duplex), or otherwise set differently from the default configuration of your switch port. Because of these default speed/duplex considerations, you should make sure that devices connected to your SFP/SFP+ ports are properly configured. **At a minimum, make sure the configurations match.**

Switch Operating System Software

For the latest software version supported by your switch, visit <http://www.hpe.com/networking/support>.

For software installation and management, the Basic Operation Guide and other software documentation for your switch at www.hpe.com/networking/ResourceCenter.

Power cords

Use one of the following power cords for an Aruba 2930F switch:

Argentina	8121-0729	Israel	8121-1004
Australia/New Zealand	8121-0837	Japan	8121-1143
Brazil	8121-1071	Switzerland	8121-0738
Chile	8121-0735	South Africa	8121-0737

Table Continued

China	8121-0943	Taiwan	8121-0964
Continental Europe/South Korea	8121-0731	Philippines/Thailand	8121-0734
Denmark	8121-0733	UK/Hong Kong/Singapore/Malaysia	8121-0739
India	8121-0564	US/Canada/Mexico	8121-1141

Safety and compliance information

For important safety, environmental, and regulatory information, see *Safety and Compliance Information for Server, Storage, Power, Networking, and Rack Products*, available at <http://www.hpe.com/support/Safety-Compliance-EnterpriseProducts>.

Aruba 2930F Switch Safety and Regulatory Information

Category	Aruba 2930F Switches
Environmental	
Operating Temperature:	32°F to 113°F (0°C to 45°C) up to 5000 Ft 32°F to 104°F (0°C to 40°C) up to 10000 Ft
Operating Relative Humidity:	15% to 95% at 104°F (40°C) non-condensing
Non-Operating/Storage Temperature:	-40°F to 158°F (-40°C to 70°C) up to 15000 ft
Non-Operating/Storage Relative Humidity:	15% to 95% at 149°F (65°C), non-condensing
Maximum Operating Altitude:	3.0 km (10,000 ft)
Maximum Non-Operating Altitude:	4.6 km (15,000 ft)
Airflow direction	Side-to-Side
Safety-EU	EN 60950-1:2006 +A11:2009 +A1:2010 +A12:2011+A2:2013
Safety- World Wide	IEC60950-1:2005 Ed.2; Am 1:2009+A2:2013
North American	UL60950-1, CSA 22.2 No 60950-1

Table Continued

Category		Aruba 2930F Switches
Lasers		EN60850-1:2007 / IEC 60825-1: 2007 Class1 Class 1 Laser Products / Laser Klasse 1
EMC:		EN 55022:2010, Class AEN 55024:2010EN 6100-3-2:2006+A1:2009+A2:2009, Class AEN 61000-3-3:2008FCC CFR 47 Part 15:2010, Class A
RoHS:		EN 50581:2012

2930F 8G PoE+ 2SFP+ switch electrical	Rated AC input voltage	Maximum AC input current	Maximum DC Output voltage	Maximum DC output current	PoE+ available power	AC power frequency range
AC Adapter	100–240V	2.6A	54V DC	3.33A	124W	50–60 Hz

Switch Model	Acoustics
Aruba 2930F 8G PoE+ 2SFP+ Switch (JL258A)	Sound Power (LWAd) 0 Bel Sound Pressure (LpAm) (Bystander) 0 dB (no fans)



Disconnect all power supply cords before servicing.

Table 1: Japan power cord warning

Japan Power Cord Warning	製品には、同梱された電源コードをお使い下さい。 同梱された電源コードは、他の製品では使用出来ません。
--------------------------	---

Table 2: China Altitude Warning

China Altitude Warning	
安全说明和标记	仅适用于海拔 2000m 以下地区安全使用。

Interior Wiring Warning	 WARNING FOR INDOOR USE ONLY. The switch, AC power cord, and all connected cables are not designed for outdoor use.
-------------------------	--

Brazil Statement

Este equipamento deve ser conectado obrigatoriamente em tomada de rede de energia elétrica que possua aterramento (três pinos), conforme a Norma NBR ABNT 5410, visando a segurança dos usuários contra choques elétricos.)

Japan VCCI Class A

この装置は、クラスA情報技術装置です。この装置を家庭環境で使用すると電波妨害を引き起こすことがあります。この場合には使用者が適切な対策を講ずるよう要求されることがあります。

VCCI-A

Korea EMC class A statement

A급 기기 (업무용 방송통신기기)	이 기기는 업무용(A급)으로 전자파적합등록을 한 기기이오니 판매자 또는 사용자는 이 점을 주의하시기 바라며, 가정 외의 지역에서 사용하는 것을 목적으로 합니다.
-----------------------	---

EAC



Russia/Belarus/Kazakhstan/CEE Safety:

Documentation feedback

Hewlett Packard Enterprise is committed to providing documentation that meets your needs. To help us improve the documentation, send any errors, suggestions, or comments to Documentation Feedback (docsfeedback@hpe.com). When submitting your feedback, include the document title, part number, edition, and publication date located on the front cover of the document. For online help content, include the product name, product version, help edition, and publication date located on the legal notices page.