

HPE Aruba Networking 2930M Switches and Accessories

Start Here: Installation, Safety, and Regulatory
Information



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All Product Documentation

Find the latest release of hardware and software documentation for HPE Aruba Networking 2930M switches and accessories by visiting the Aruba Support Portal at the following link. Filter for the publications you want: <https://asp.arubanetworks.com/downloads>

See the rest of this guide for important presetup information.



There are no user-serviceable parts in the HPE Aruba Networking 2930M switches or the AC adapter used with some 2930M switch models. For switch or accessory service needs, contact an authorized HPE Aruba Networking representative.

Applicable Products

- **JL319A** Aruba 2930M 24G 1-slot Switch
- **JL320A** Aruba 2930M 24G PoE+ 1-slot Switch
- **JL321A** Aruba 2930M 48G 1-slot Switch
- **JL322A** Aruba 2930M 48G PoE+ 1-slot Switch
- **JL323A** Aruba 2930M 40G 8 HPE Smart Rate PoE+ 1-slot Switch
- **JL324A** Aruba 2930M 24 HPE Smart Rate PoE+ 1-slot Switch
- **R0M67A** Aruba 2930M 40G 8 HPE Smart Rate PoE Class 6 1-slot Switch
- **R0M68A** Aruba 2930M 24 HPE Smart Rate PoE Class 6 1-slot Switch
- **JL325A** Aruba 2930 2-port Stacking Module
- **JL078A** Aruba 3810M/2930M 1-Port QSFP+ 40GbE Module
- **JL081A** Aruba 3810M/2930M 4 HPE Smart Rate 1G/2.5G/5G/10G PoE+ Module
- **JL083A** Aruba 3810M/2930M 4-Port 100M/1G/10G SFP+ MACsec Module
- **JL085A** Aruba X371 12VDC 250W 100-240VAC Power Supply
- **JL086A** Aruba X372 54VDC 680W 100-240VAC Power Supply
- **JL087A** Aruba X372 54VDC 1050W 110-240VAC Power Supply

Installation Precautions and Guidelines

To avoid personal injury or product damage when installing your switch, read the installation precautions and guidelines below.

To avoid personal injury or product damage when installing your switch, read the installation precautions and guidelines below:



- Do not mount the switch on a wall or under a table or under another horizontal surface.
- Mount devices installed in a rack or cabinet as low as possible. Put the heaviest devices at the bottom and progressively lighter devices installed above.
- To prevent the rack or cabinet from becoming unstable and/or falling over, ensure that it is adequately secured.



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- Do not ship any switch in a rack without checking for restrictions in the Installation and Getting Started Guide for your switch. Otherwise, you may void the switch warranty.
 - Ensure the power source circuits are properly grounded. Then connect the switch to the power source by using the power cord supplied with the switch.
 - If your installation requires a different power cord than the one supplied with the switch and power supply, be sure the cord is adequately sized for the switch'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 and power supply.
 - When installing the switch, the AC outlet should be near the switch and be easily accessible in case the switch must be powered off.
 - Do not install the switch in an environment where the operating ambient temperature exceeds its specification. (See the [Environmental Operating Temperature](#) information.)
 - Ensure that the switch does not overload the power circuits, wiring, and over-current protection. To determine the possibility of overloading the supply circuits, add the ampere ratings of all devices installed on the same circuit as the switch. Then 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.



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- Ensure that the air flow around the switch is not restricted. Leave at least 3 inches (7.6 cm) for cooling. For the air flow direction, see the Installation and Getting Started Guide for your product by visiting the Hewlett Packard Enterprise Support Center at <http://www.hpe.com/support/manuals>.
 - If a power supply must be removed, and then reinstalled, wait at least 5 seconds before re-installation. Otherwise, damage to the switch may occur. The power supply needs this time to bleed off any retained power.
 - Install cover plates on any slot that is not in use.
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Prepare for Installation



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

Unpack and check included parts:

- Switch
- Installation hardware:
 - two rack mounting brackets
 - eight 8-mm M4 screws
 - four 5/8-inch number 12-24 screws
 - four adhesive rubber foot pads
- Power cord
- Documentation kit

The Aruba X2C2 RJ45 to DB9 Console Cable (JL448A) can be ordered separately, or as an accessory to your switch:



A standard micro-USB (HPE Aruba Networking switches) or mini-USB (HPE FlexNetwork switches) cable can be used to console into the switch. Only data-capable USB cables can be used as console cables. USB charging-only cables will not work.

1. Prepare for installation.

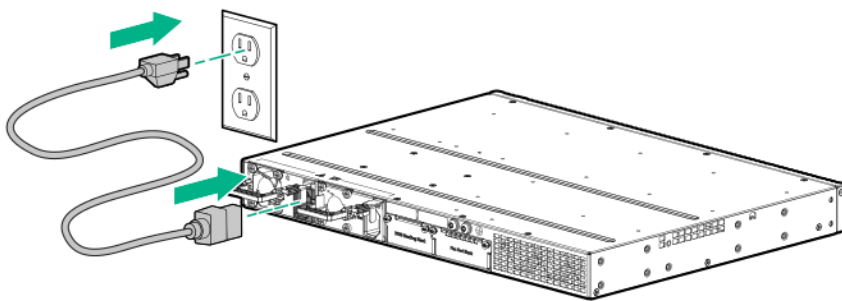
To avoid personal injury or product damage, review the [Installation precautions and guidelines](#) before beginning the installation.

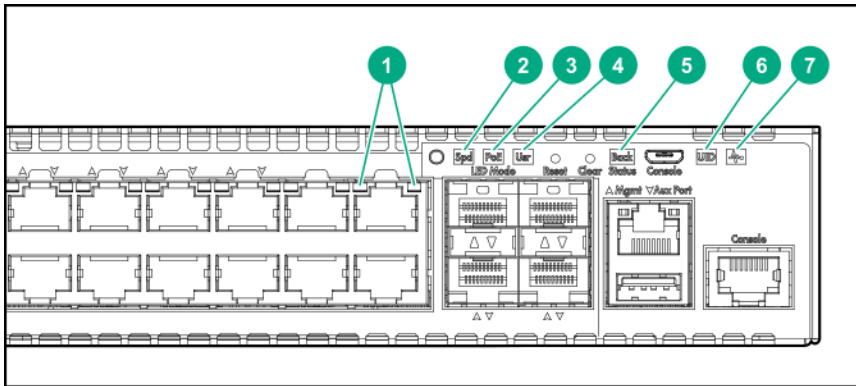
2. Skip this step if a power supply is already installed in the switch.

If a power supply is not already installed in the switch, install at least one power supply before continuing in this guide. (See the HPE Aruba Networking Switch Power Supply Quick Setup Guide and Safety/Regulatory Information document shipped with your power supply units.) The HPE Aruba Networking 2930M switches use any of the following power supplies:

- Aruba X371 12VDC 250W 100-240VAC Power Supply (JL085A)
- Aruba X372 54VDC 680W 100-240VAC Power Supply (JL086A)
- Aruba X372 54VDC 1050W 110-240VAC Power Supply (JL087A)

3. Power on and verify that self-test completes normally. An HPE Aruba Networking 2930M switch does not contain a power on/off switch. It is turned on by connecting the AC power cord to the switch and to an AC power source.





1	Port LEDs: Off after self-test unless a network cable is connected and the port is receiving link beat.
2	Speed Mode Selected LED: Off after self-test in default configuration.
3	PoE Mode Selected LED (Only on HPE Aruba Networking 2930M models that support PoE+ operation): Off after self-test in default configuration.
4	User Mode Selected LED: Off after self-test in default configuration.
5	Back Status LED: Green after self-test if all modular components installed on the back of the unit are functioning correctly. Slow flash orange if a module on the back of the unit is in a fault state.
6	UID LED: Locator or Unit Identification LED. Off after self-test.
7	Global Status LED: Green after self-test in default configuration.

4. Remove the power cord from the switch and from the power source.

Power Cords

HPE Aruba Networking includes the power cord intended for use with your HPE Aruba Networking switch. Different countries/regions may require different power cords. For a list of the power cords that apply to your HPE Aruba Networking 2930M switch, see the section that lists power cords in the latest edition of the HPE Aruba Networking 2930M Switch Series Installation and Getting Started Guide.



CAUTION

Only HPE Aruba Networking-approved power cords may be used with HPE Aruba Networking devices. To access the power cord information for your switch, see the latest edition of the *HPE Aruba Networking 2930M Switch Series Installation and Getting Started Guide*. Lost or damaged power cords must be replaced only with HPE Aruba Networking-approved power cords. If your installation requires a different power cord than the one supplied with the switch and/or power supply, be sure that the cord is adequately sized for the current requirements of the switch. 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/region. The mark is your assurance that the power cord can be used safely with the switch and power supply.



WARNING

Do not use a damaged or non recommended power cord with your switch. Using such power cords voids the switch and power supply warranty. It can also cause serious electrical problems, including injury or death to personnel, and damage to the switch and other property. If you cannot verify that you have a power cord approved for use with your switch model, contact your authorized HPE Aruba Networking dealer or sales representative for assistance.



CAUTION

Remove the power cord from the switch before mounting or dismounting the switch.

HPE Aruba Networking 2930M Safety and Regulatory 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>.

HPE Aruba Networking 2930M Switch Safety and Regulatory Information

HPE Aruba Networking 2930M Switches	
Environmental Operating Temperature:	All switches except the JL324A: <ul style="list-style-type: none"> ▪ 0°C to 55°C (32°F to 131°F) up to 5000 ft ▪ 0°C to 50°C (32°F to 122°F) up to 10000 ft (Reduce 1°C for every 1000 ft above 5000 ft.) JL324A switch: <ul style="list-style-type: none"> ▪ 32°F to 113°F (0°C to 45°C) up to 5000ft ▪ 32°F to 104°F (0°C to 40°C) up to 10000ft (reduce 1°C for every 1000ft above 5000ft) Important: The maximum operating temperature for an Aruba 2930M switch is 50°C (122°F) (or 45°C (113°F) for the JL324A only) if any of the following transceivers are installed in the switch: <ul style="list-style-type: none"> ▪ J9150A HP X132 10G SFP+ LC SR Transceiver ▪ J9151A HP X132 10G SFP+ LC LR Transceiver ▪ J9152A HP X132 10G SFP+ LC LRM Transceiver ▪ J9153A HP X132 10G SFP+ LC ER Transceiver ▪ JH231A HP X142 40G QSFP+ MPO SR4 Transceiver ▪ JH232A HP X142 40G QSFP+ LC LR4 SM Transceiver ▪ JH233A HP X142 40G QSFP+ MPO CSR4 Transceiver
Relative Humidity:	15% to 95% at 40°C (104°F) non-condensing
Non-Operating Temperature:	-40°C to 70°C (-40°F to 158°F) up to 15000 ft
Non-Operating Relative Humidity:	15% to 90% at 65°C (149°F)
Maximum Operating Altitude:	3.0 km (10,000 ft)
Non-Operating Altitude:	4.6 km (15,000 ft)
Safety-EU	EN 60950-1:2006 +A11:2009 +A1:2010 +A12:2011+A2:2013 EN62368-1, Ed. 2
Safety- World Wide	IEC60950-1:2005 Ed.2; Am 1:2009+A2:2013 IEC62368-1, Ed. 2

HPE Aruba Networking 2930M Switches	
North American	UL60950-1, CSA 22.2 No 60950-1
Lasers	EN60825-1:2007 / IEC 60825-1: 2007 Class1 Class 1 Laser Products / Laser Klasse 1
EMC	EN 55032:2012, Class A EN 55024:2010 EN 61000-3-2:2014, Class A EN 61000-3-3:2013 FCC CFR 47 Part 15:2010, Class A
RoHS	EN 50581:2012

	Aruba 2930M PoE+ Switches JL320A, JL322A, JL323A, JL324A	Aruba 2930M Non-PoE+ Switches JL319A, JL321A
Electrical	Per JL086A power supply: 100V-240V 8A- 3.5A 50 -60 Hz	Per JL085A power supply: 100 - 240 VAC 3A -1.2A 50 - 60 Hz
<ul style="list-style-type: none"> ▪ AC voltage: ▪ Maximum current: ▪ Frequency range: 	Per JL087A power supply: 110V-240V 12A- 5A 50 -60 Hz	

	Acoustics
Aruba 2930M 24G 1-slot Switch (JL319A)	Sound Power (LWAd) 4.0 Bel Sound Pressure (LpAm) (Bystander) 22.8 dB
Aruba 2930M 48G 1-slot Switch (JL321A)	Sound Power (LWAd) 4.6 Bel Sound Pressure (LpAm) (Bystander) 28.8 dB
Aruba 2930M 24G PoE+ 1-slot Switch (JL320A)	Sound Power (LWAd) 4.1 Bel Sound Pressure (LpAm) (Bystander) 23.7 dB
Aruba 2930M 48G PoE+ 1-slot Switch (JL322A)	Sound Power (LWAd) 4.6 Bel Sound Pressure (LpAm) (Bystander) 28.9 dB
Aruba 2930M 40G 8SR PoE+ 1-slot Switch (JL323A)	Sound Power (LWAd) 4.4 Bel Sound Pressure (LpAm) (Bystander) 26.0 dB
Aruba 2930M 24SR PoE+ 1-slot Switch (JL324A)	Sound Power (LWAd) 4.8 Bel Sound Pressure (LpAm) (Bystander) 31.2 dB

Table 1: Power Cord for HPE Aruba Networking 2930M PoE+ Switches

One of the following:			
Argentina	8121- 1481	Israel	8121-1478
Australia/New Zealand	8121- 1476	Japan high line	8121-1738
Brazil	8121- 1265	Japan low line (JL086A power supply only)	8121-1482
Chile	8121- 1477	North America	8121-0914
China	8121- 1484	North America high line	8120-8945
Continental Europe/South Korea	8121- 1479	Philippines/Thailand	8121-1485
Denmark	8121- 1486	Switzerland	8121-1480
Hong Kong/Malaysia/Singapore/UK	8120-1475	Taiwan	8121-1511
India/South Africa	8120-1483		

Table 2: Power Cord for HPE Aruba Networking 2930M non-PoE+ Switches

One of the following:			
Argentina	8121- 0729	Israel	8121-1004
Australia/New Zealand	8121-0837	Japan	8121-1143
Brazil	8121-1071	North America	8121-0914
Chile	8121-0735	North America high line	8120-8945
China	8121-0943	Philippines/Thailand	8121-0734
Continental Europe/South Korea	8121-0731	South Africa	8121-0737
Denmark	8121-0733	Switzerland	8121-0738
Hong Kong/Malaysia/Singapore/UK	8121-0739	Taiwan	8121-0964
India	8121-0564		

Table 3: 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。
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Table 4: 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。
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Power Supply Instructions



During the installation, ensure that AC power is NOT connected to the Power Supply.



Shock hazard. To completely remove power from the switch, disconnect all power cords.



For more information, see the Power over Ethernet (PoE/PoE+) Planning and Implementation Guide on the Hewlett Packard Enterprise Information Library at <http://www.hpe.com/support/manuals>.

Interior Wiring Warning

	WARNING FOR INDOOR USE ONLY. The switch, AC power cord, and all connected cables are not designed for outdoor use.
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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.)
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Battery Statements:

The only indicator of battery failure is the failure of the switch internal clock to keep the correct time across a reboot or power cycle. If a battery failure occurs, contact your authorized HPE Aruba Networking representative for assistance. Batteries are not customer-serviceable and battery failures should be referred only to service personnel authorized by HPE Aruba Networking.



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>

ATTENTION	Il y a danger d'explosion s'il y a remplace-ment incorrect de la batterie. Remplacer uniquement avec une batterie du même type ou d'un type équivalent recommandé par le constructeur. Mettre au rebut les batteries usagées conformément aux instructions du fabricant.
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ATTENTION	The battery supplied with this product may contain perchlorate material. Special handling may apply in California and certain other states. See http://www.dtsc.ca.gov/hazardouswaste/perchlorate Web site for more information.
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A risk of explosion exists if a battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.

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
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Korea EMC Class A Statement

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European Community

The product herewith complies with the requirements of Directive 2014/35/EU relating to electrical equipment designed for use within certain voltage limits, Directive 2014/30/EU relating to electromagnetic compatibility, Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment and carries the CE marking accordingly.



For Conducted and Radiated Immunity in accordance with EN55024, the HPE Aruba Networking 2930M switch products are limited to Performance Criteria A with shielded cable for HPE Smart Rate ports.

Belarus Kazakhstan Russia Marking



For manufacturer and local representative information, see Safety and Compliance Information for Server, Storage, Power, Networking, and Rack Products at <http://www.hpe.com/support/Safety-Compliance-EnterpriseProducts>.

India

This product conforms to the relevant Essential Requirements of TEC, Department of Telecommunications, Ministry of Communications, Govt of India, New Delhi-110001.

China

The NAL Label can be found near product packaging regulatory label.

Preview of Installing an HPE Aruba Networking 2930M Switch



This section previews the steps for installing the switches. To find detailed switch installation steps, information on configuration tools, and other instructions and information, see the *HPE Aruba Networking 2930M Switch Series Installation and Getting Started Guide*.

1. Prepare the installation site.
2. Unpack the switch and verify that you have received the correct parts.
3. Connect power to the switch and observe the switch self-test, then remove power from the switch.
4. Mount the switch.



Mounting restrictions apply. See the "Warning" under [Installation Precautions and Guidelines on page 5](#).

5. Connect the switch to a power source.
6. (Optional) Install transceivers.
7. Connect the network cables.
8. Configure the switch for network operation.

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