START HERE: Installation, Safety, and Regulatory Information for the Aruba Instant On 1930 Switches

All product documentation

For the latest release of hardware and software documentation for Aruba Instant On 1930 switches and accessories, visit the Aruba Support Portal at the following link and click **Support**.

https://www.arubainstanton.com/

See the rest of this guide for important presetup information.

WARNING: There are no user-serviceable parts in the Aruba Instant On 1930 switches, or the AC adapter used with the 8G switch. For switch or accessory service needs, contact an authorized Aruba representative.

Applicable products

Aruba Instant On 1930 8G 2SFP Switch	JL680A	AC Power Adapter:[1] • 13W External AC Adapter (5066-5562) • 13W External AC Adapter (5184-5864) • 13W External AC Adapter (5300-1005) • 15W External AC Adapter (5066-5563)
Aruba Instant On 1930 8G Class4 PoE 2SFP 124W Switch	JL681A	
Aruba Instant On 1930 24G 4SFP/SFP+ Switch	JL682A	
Aruba Instant On 1930 24G Class4 PoE 4SFP/SFP+ 195W Switch	JL683A	
Aruba Instant On 1930 24G Class4 PoE 4SFP/SFP+ 370W Switch	JL684A	
Aruba Instant On 1930 48G 4SFP/SFP+ Switch	JL685A	
Aruba Instant On 1930 48G Class4 PoE 4SFP/SFP+ 370W Switch	JL686A	

[1] Used with the JL680A Aruba Instant On 1930 8G 2SFP Switch. All other Aruba Instant On 1930 switches operate with internal power supplies. For more information on power adapters, see the latest *Installation and Getting Started Guide* for your Aruba Instant On 1930 Switch.

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Part Number: 5200-5868
Published: January 2020
Edition: 1

Overview product information

The Aruba Instant On 1930 Switch series are designed to meet the needs of small business network environments - simple to setup and manage, secure and reliable. Aruba Instant On deployments can be managed through a Mobile App supported on iOS and Android, a cloud portal that is accessible through a web browser, or a local web GUI.

These switches are intended for indoor use only. The switches comply with the safety standard IEC 60950-1, 2nd Edition and IEC 62368-1 2nd Edition. A tool is required to remove the top cover; however, the product is not considered serviceable by an operator.

Installation precautions and guidelines

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

WARNING:

- To prevent the rack or cabinet from becoming unstable, tilting, and/or falling over, ensure that it is adequately secured.
- Mount devices installed in a rack or cabinet as low as possible. Put the heaviest devices at the bottom, and progressively lighter devices positioned higher. Note, however, that the preferred position for the fanless Aruba Instant On 1930 switches is at the base of the rack or cabinet (for optimal cooling) or below as many of the other products as can be accommodated.
- If you wall-mount the switch, the network ports must face upward or downward (that is, toward or away from the floor). Do **not** wall-mount the switch with the side ventilation holes facing up or down.

  This section provides precautions and guidelines to observe when installing your switch. For full installation instructions, see the *Aruba Instant On 1930 Switches Installation and Getting Started Guide*.

IMPORTANT:

- All Aruba Instant On 1930 Switches support table-top mounting.
- All Aruba Instant On 1930 Switches except JL680A support rack-mounting.
- All Aruba Instant On 1930 Switches support wall-mounting with ports facing either up or down.
- All Aruba Instant On 1930 Switches support under-table mounting.
  - JL682A and JL685A must be mounted top surface up.
  - JL683A, JL684A, and JL686A can be mounted either top surface up or upside down.
  - JL680A and JL681A must be mounted upside down.

IMPORTANT: Use only supported HPE Aruba transceivers. For more information, see the latest version of the following two guides.

- *ArubaOS-Switch and ArubaOS-CX Transceiver Guide*
- *Aruba Instant On 1930 Switches Installation and Getting Started Guide*

CAUTION:

- Do not ship any switch in a rack without checking for restrictions in the latest *Aruba Instant On 1930 Switches Installation and Getting Started Guide*. Otherwise, you may void the switch warranty.
- Ensure that the power source circuits are properly grounded. Then connect the switch to the AC power source by using the power cord supplied with the switch. For more information on power cords, see **Power cords**.
- Ensure that the power cord and network cables at the switch mounting location do not create a tripping hazard.
- When installing the switch, the AC outlet must be near the switch and easily accessible in case the switch must be powered off.
- Ensure that the switch does not overload the power circuits, wiring, and over-current protection. To determine the possibility of overloading the supply circuits:

  1. Add the ampere ratings of all devices installed on the same circuit as the switch.
  2. 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.
- Avoid blocking any ventilation openings on the top, sides, rear, or front of the switch.
- Ensure that the air flow around the switch is not restricted. Leave at least 7.6 cm (3 inches) for cooling. For air flow direction, see the latest *Aruba Instant On 1930 Switches Installation and Getting Started Guide*.
- Do not install the switch in an environment where the operating ambient temperature exceeds its specification. See the environmental operating temperature information in the latest *Aruba Instant On 1930 Switches Installation and Getting Started Guide*.

NOTE: The following Aruba Instant On 1930 switch models have a fan-free design, making them quiet for office deployments.

- Aruba Instant On 1930 8G 2SFP Switch (JL680A)
- Aruba Instant On 1930 8G PoE 2SFP Switch (JL681A)
- Aruba Instant On 1930 24G 4SFP+ Switch (JL682A)
- Aruba Instant On 1930 48G 4SFP+ Switch (JL685A)

A warmer than normal enclosure is a standard state of operation for a fan-free switch. Although the top of the switch enclosure may feel warm to the touch, it has no effect on functionality or performance of the product. For rack-mounted Aruba Instant On 1930 fanless switches, ensure that a 1U (44.45 mm / 1.75-inch) vertical space is maintained between the switch and the device above it.

Power cords

Aruba includes the power cord intended for use with your Aruba switch. Different countries/regions may require different power cords. For a list of the power cords that apply to your Aruba Instant On 1930 switch, see the section that lists power cords in the latest edition of the *Aruba Instant On 1930 Switches Installation and Getting Started Guide*.

CAUTION: Only Aruba-approved power cords may be used with Aruba devices. To access the power cord information for your switch, see the latest edition of the *Aruba Instant On 1930 Switches Installation and Getting Started Guide*. Lost or damaged power cords must be replaced only with Aruba-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 nonrecommended 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 Aruba dealer or sales representative for assistance.

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

Environmental specifications

Table 1: *Environmental specifications for all 1930 switch models*

Requirement	Value
Operating temperature	32°F to 104°F (0°C to 40°C)
Operating relative humidity	15% to 95%
Non-operating temperature	-40°F to 158°F (-40°C to 70°C) up to 15000 ft
Storage relative humidity	15% to 95%
Max operating altitude	10000 feet (3 km) Max
Max non-operating altitude	15000 feet (4.6 km) Max

Switch	Dimensions (L x W x H)	Weight
Aruba Instant On 1930 8G 2SFP Switch (JL680A)	6.4" x 9.9" x 1.72" (16.2 x 25.35 x 4.35 cm)	2.60 lb (1.18 kg)
Aruba Instant On 1930 8G Class4 PoE 2SFP 124W Switch (JL681A)	10.12" x 9.9" x 1.72" (25.7 x 25.35 x 4.35 cm)	4.17 lb (1.89 kg)
Aruba Instant On 1930 24G 4SFP/SFP+ Switch (JL682A)	8.94" x 17.43" x 1.72" (22.7 x 44.25 x 4.35 cm)	5.35 lb (2.43 kg)
Aruba Instant On 1930 24G Class4 PoE 4SFP/SFP+ 195W Switch (JL683A)	10.56" x 17.43" x 1.72" (26.8 x 44.25 x 4.35 cm)	7.65 lb (3.47 kg)
Aruba Instant On 1930 24G Class4 PoE 4SFP/SFP+ 370W Switch (JL684A)	10.56" x 17.43" x 1.72" (26.8 x 44.25 x 4.35 cm)	8.10 lb (3.67 kg)

Table Continued

Switch	Dimensions (L x W x H)	Weight
Aruba Instant On 1930 48G 4SFP/SFP+ Switch (JL685A)	11.30" x 17.43" x 1.72" (28.7 x 44.25 x 4.35 cm)	6.90 lb (3.13 kg)
Aruba Instant On 1930 48G Class4 PoE 4SFP/SFP+ 370W Switch (JL686A)	12.76" x 17.43" x 1.72" (32.4 x 44.25 x 4.35 cm)	10.0 lb (4.54 kg)

Aruba Instant On 1930 Switch safety and regulatory information

NOTE: 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**.

Table 2: *Electrical information for Aruba Instant On 1930 switches requiring direct AC voltage*

Switch model [1]	Maximum current	AC Voltage	Frequency range
(JL681A) Aruba Instant On 1930 8G Class4 PoE 2SFP 124W Switch	1.7 / 0.9 A	100-127 / 200-240	50/60 Hz
(JL682A) Aruba Instant On 1930 24G 4SFP/SFP+ Switch	0.5 / 0.4 A		
(JL683A) Aruba Instant On 1930 24G Class4 PoE 4SFP/SFP+ 195W Switch	2.6 / 1.3 A		
(JL684A) Aruba Instant On 1930 24G Class4 PoE 4SFP/SFP+ 370W Switch	4.9 / 2.4 A		
(JL685A) Aruba Instant On 1930 48G 4SFP/SFP+ Switch	0.8 / 0.5 A		
(JL686A) Aruba Instant On 1930 48G Class4 PoE 4SFP/SFP+ 370W Switch	5.1 / 2.5 A		

[1] For power, requires a direct power cord connection from an AC power source.

Table 3: *Electrical information for the Aruba Instant On 1930 8G switch using an external AC power adapter*

8G (JL680A)	Maximum AC input current	DC Output voltage	Maximum DC output current	Rated AC input voltage	AC power frequency range
13W External AC Adapter (5066-5562)	0.4A	12.0VDC	1.085A	100-240VAC	50/60 Hz
13W External AC Adapter (5184-5864)	0.4A	12.0VDC	1.085A		

Table Continued

8G (JL680A)	Maximum AC input current	DC Output voltage	Maximum DC output current	Rated AC input voltage	AC power frequency range
13W External AC Adapter (5300-1005)	0.4A	12.0VDC	1.085A		
15W External AC Adapter (5066-5563)	0.4A	12.0VDC	1.25A		

Table 4: *Safety and regulatory information for all Aruba Instant On 1930 switch models*

Safety	UL/CUL 69050-1: 2nd Edition; UL/CUL 63268 -1:2014; EN 60950-1:2006 +A11:2009 +A1:2010 +A12:2011+A2:2013; EN 62368-1: 2014; IEC 60950- 1:2005 +A1:2009 +A2:2013; IEC 62368-1:2014; EN 60825-1:2014 / IEC 60825-1:2014 Class 1
EMC	EN 55032:2012/CISPR 32 Class A; FCC CFR 47 Part 15 Class A; VCCI-32 Class A; ICES-003 Class A; CNS 13438 Class A; EN 55024:2015; EN55035:2017/CISPR 24/35; EN 61000-3-2: 2014; EN 61000-3-4: 2013
RoHS	EN 50581:2012

NOTE: Environmental and other switch specifications, such as acoustics data, are included in the latest version of the *Aruba Instant On 1930 Switches Installation and Getting Started Guide*.

IMPORTANT: Use only supported Aruba transceivers with your switch. For more on transceivers, see the latest edition of the *ArubaOS-Switch and ArubaOS-CX Transceiver Guide*.

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 an approved Laser Class 1 SFP transceiver.

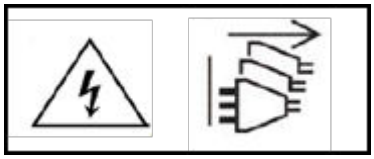
Japan Power Cord Warning	製品には、同梱された電源コードをお使い下さい。 同梱された電源コードは、他の製品では使用出来ません。

Power supply instructions

WARNING: During the installation, ensure that AC power is NOT connected to the switch or external power supply.

CAUTION: Shock hazard

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



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.)

IMPORTANT: 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**

Japan VCCI Class A

この装置は、クラスA機器です。この装置を住宅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

사용자 안내문

이 기기는 업무용 환경에서 사용할 목적으로 적합성평가를 받은 기기로서

가정용 환경에서 사용하는경우 전파간섭의 우려가 있습니다.

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.

Belarus Kazakhstan Russia marking

EAC

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**.

Preview of installing an Aruba Instant On 1930 Switch

IMPORTANT: This section previews the steps for installing the Aruba Instant On 1930 switches. To find detailed switch installation steps, configuration tools, and other information, see the latest version of the *Aruba Instant On 1930 Switches 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.

WARNING: Mounting restrictions apply. See the "**Warning**" under **Installation precautions and guidelines**.

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

Documentation feedback

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