HPE Aruba Networking 8325H Switches and Accessories

Start Here: Installation, Safety, and Regulatory Information

Hewlett Packard Enterprise

All Product Documentation

For the latest release of hardware and software documentation for HPE Aruba Networking switches and accessories, including the *HPE Aruba Networking 8325H Switches Installation and Getting Started Guide* which provides detailed installation instructions, visit the HPE Networking Support Portal at the following link: https://networkingsupport.hpe.com .

See the rest of this guide for important pre-setup information.

> **CAUTION** There are no user-serviceable parts in the HPE Aruba Networking 8325H switches. For switch or accessory service needs, contact an authorized HPE Aruba Networking representative.

Applicable Products

Model	Description
S4B20A	HPE Aruba Networking CX 8325H 18p SFP28 25G 4p QSFP28 100G Front-to-Back 4 Fans 2 PSU Switch
S4B21A	HPE Aruba Networking CX 8325H 18p SFP28 25G 4p QSFP28 100G Back-to-Front 4 Fans 2 PSU Switch
S4B22A	HPE Aruba Networking CX 8325H 16p QSFP28 40G/100G Front-to-Back 4 Fans 2 PSU Switch
S4B23A	HPE Aruba Networking CX 8325H 16p QSFP28 40G/100G Back-to-Front 4 Fans 2 PSU Switch
S2T42A	HPE Aruba Networking CX 8325H 18p SFP28 25G 4p QSFP28 100G Front-to-Back 4 Fans 2 PSU TAA Switch
S2T46A	HPE Aruba Networking CX 8325H 18p SFP28 25G 4p QSFP28 100G Back-to-Front 4 Fans 2 PSU TAA Switch
S2T47A	HPE Aruba Networking CX 8325H 16p QSFP28 40G/100G Front-to-Back 4 Fans 2 PSU TAA Switch
S2T48A	HPE Aruba Networking CX 8325H 16p QSFP28 40G/100G Back-to-Front 4 Fans 2 PSU TAA Switch

Overview Product Information

The HPE Aruba Networking 8325H switch is a half-width data center switch that is positioned as a top-of-rack solution connecting servers and storage. It can serve as a leaf-spine (collapsed fabric) networking solution or as a Layer 3 solution for data centers, as well as a campus aggregation core, to build high-performance switched networks. The switch supports either cut-through (low-latency) or store-and-forward switching. The HPE Aruba Networking 8325H switch also supports full network management capabilities.

These switches are intended for indoor use only. They are for use in commercial applications. A typical installation is in an environmentally controlled data center. The end-use environment may or may not be a restricted access location.

Installation Precautions and Guidelines

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

For full installation instructions, see the *HPE Aruba Networking 8325H Switches Installation and Getting Started Guide*.

- Do not mount the switch on a wall, under a table, or under any other horizontal surface.
- Mount devices on a rack or cabinet as low as possible. Put the heaviest devices at the bottom and progressively lighter devices positioned higher.
- To prevent the rack or cabinet from becoming unstable and/or falling over, ensure that it is adequately secured.
- The product is not considered serviceable by an operator. Do not attempt to remove the top cover or service the unit.

- Do not ship any switch in a rack without checking for restrictions in the HPE Aruba Networking 8325H 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 power source by using the power cord supplied with the switch. For more information on power cords, see Power Cords.
- When installing the switch, ensure that the AC outlet is near the switch. Make it easily accessible in case the switch must be powered off.
- Ensure that the power cord and network cables at the switch mounting location do not create a tripping hazard.
- 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 HPE Aruba Networking 8325H Switches Installation and Getting Started Guide.
- Ensure that the switch does not overload the power circuits, wiring, and over-current protection at your installation site. 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 for a device are usually printed near the device's AC power connectors.
- Avoid blocking any ventilation openings on the sides, rear, or front of the switch.
- Ensure that the airflow around the switch is not restricted. For the airflow direction, see the latest HPE Aruba Networking 8325H Switches Installation and Getting Started Guide.

Power Cords

HPE Aruba Networking includes the power cord intended for use with your HPE Aruba Networking switch and power supply. Different countries or regions may require different power cords. For a list of the power cords that apply to your 8325H switches, see the section that lists power cords in the latest edition of the *HPE Aruba Networking 8325H Switches Installation and Getting Started Guide*.

CAUTION

Only HPE Aruba Networking-approved power cords may be used with HPE Aruba Networking devices. See the power cord documentation provided in the latest version of the HPE Aruba Networking 8325H *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, use a power cord that displays the mark of the safety agency that defines the regulations for power cords in your country or 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.
- Remove the power cord from the switch before mounting or dismounting the switch.

Environmental and Physical Specifications

The following table describes the environmental specifications of the switch.

Table 1: *Environmental Specifications for all HPE Aruba Networking 8325H Switches*

	HPE Aruba Networking 8325H Switches
Operating temperature*	Front-to-Back airflow: 32°F to 113°F (0°C to 45°C) at sea level Back-to-Front airflow: 32°F to 104°F (0°C to 40°C) at sea level Derate -1°C for every 1,000 ft to 10,000 ft (300 m to 3.0 km)
Non-operating temperature	-40°F to 158°F up to 15,000 ft (-40°C to 70°C up to 4.6 km)
Operating relative humidity	Front-to-Back airflow: 5% to 95% @ 113°F (45°C) non-condensing Back-to-Front airflow: 5% to 95% @ 104°F (40°C) non-condensing
Non-operating storage relative humidity	5% to 95% @ 149°F (65°C) non-condensing
Max operating altitude	10,000 ft (3.0 km) Max
Max non-operating altitude	15,000 ft (4.6 km) Max
*Refer to the latest AOS-S and AOS-CX Transceiver Guide for Transceiver/AOC operating temperature limits.	

The following table describes the physical specifications of the switch.

Table 2: *Physical Specifications*

Model	Description	Dimensions (W x D x H)	Weight
S4B20A	HPE Aruba Networking CX 8325H 18p SFP28 25G 4p QSFP28 100G Front-to-Back 4 Fans 2 PSU Switch	8.27" x 22.70" x 1.69" (21.0 x 57.7 x 4.3 cm)	13.08 lb (5.94 kg)
S4B21A	HPE Aruba Networking CX 8325H 18p SFP28 25G 4p QSFP28 100G Back-to-Front 4 Fans 2 PSU Switch		
S2T42A	HPE Aruba Networking CX 8325H 18p SFP28 25G 4p QSFP28 100G Front-to-Back 4 Fans 2 PSU TAA Switch		
S2T46A	HPE Aruba Networking CX 8325H 18p SFP28 25G 4p QSFP28 100G Back-to-Front 4 Fans 2 PSU TAA Switch		
S4B22A	HPE Aruba Networking CX 8325H 16p QSFP28 40G/100G Front-to-Back 4 Fans 2 PSU Switch		13.24 lb (6.01 kg)
S4B23A	HPE Aruba Networking CX 8325H 16p QSFP28 40G/100G Back-to-Front 4 Fans 2 PSU Switch		
S2T47A	HPE Aruba Networking CX 8325H 16p QSFP28 40G/100G Front-to-Back 4 Fans 2 PSU TAA Switch		
S2T48A	HPE Aruba Networking CX 8325H 16p QSFP28 40G/100G Back-to-Front 4 Fans 2 PSU TAA Switch		

Battery Statements

NOTE

- The battery, which may be too small to bear the CE marking, conforms with applicable $C\epsilon$ requirements.
- These switches use a lithium battery. Do not attempt to replace the battery. Return the switch to HPE Aruba Networking for battery replacement.
- The only indicator of battery failure is the failure of the switch's 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 HPE Aruba Networking-authorized service personnel.
- For important safety, environmental, and regulatory information, see the 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 remplacement 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.

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 website for more information.

HPE Aruba Networking 8325H 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 1: *Electrical Information for HPE Aruba Networking 8325H Switches*

Model	Maximum Current	Nominal Voltage	Frequency Range
HPE Aruba Networking CX 8325H 18p SFP28 25G 4p QSFP28 100G Front-to-Back 4 Fans 2 PSU Switch (S4B20A)	7A/4A	100-127V/200-240V	50-60Hz
HPE Aruba Networking CX 8325H 18p SFP28 25G 4p QSFP28 100G Back-to-Front 4 Fans 2 PSU Switch (S4B21A)			
HPE Aruba Networking CX 8325H 18p SFP28 25G 4p QSFP28 100G Front-to-Back 4 Fans 2 PSU TAA Switch (S2T42A)			
HPE Aruba Networking CX 8325H 18p SFP28 25G 4p QSFP28 100G Back-to-Front 4 Fans 2 PSU TAA Switch (S2T46A)			
HPE Aruba Networking CX 8325H 16p QSFP28 40G/100G Front-to-Back 4 Fans 2 PSU Switch (S4B22A)			
HPE Aruba Networking CX 8325H 16p QSFP28 40G/100G Back-to-Front 4 Fans 2 PSU Switch (S4B23A)			
HPE Aruba Networking CX 8325H 16p QSFP28 40G/100G Front-to-Back 4 Fans 2 PSU TAA Switch (S2T47A)			
HPE Aruba Networking CX 8325H 16p QSFP28 40G/100G Back-to-Front 4 Fans 2 PSU TAA Switch (S2T48A)			

Table 2: *Safety and Regulatory Information for HPE Aruba Networking 8325H Switch Models*

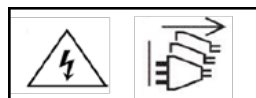| Safety	EN 62368-1 2nd Ed; EN 62368-1 3rd Ed; UL 62368-1 3rd Ed; CSA C22.2 NO. 62368-1:2019 3rd Ed; GB 4943.1:2022; CNS 15598:2020; IEC 62368-1:2014 & 2018 w/all known national deviations.
Lasers	EN 60825-1:2014 / IEC 60825-1: 2014 Class 1 Class 1 Laser Products / Laser Klasse 1
EMC	EN 55032:2015+A11:2020, Class A EN 55035:2017+A11:2020 EN 61000-3-2: 2019/A1:2021 EN 61000-3-3: 2013/A2:2021 EN 301-489-1-19 EN 303-413 EN 61000-4-5 CISPR 32:2015 Class A CISPR 35 2016 FCC CFR 47 Part 15:2020, Subpart B Class A ICES-003 Class A 2020 Issue 7 VCCI-32:2016 Class A AS/NZS CISPR 32:2015 +AMD:2020 Class A CNS 15936
RoHS	EN 63000:2018

Environmental and other switch specifications, such as acoustics data, are included in the *HPE Aruba Networking 8325H Switches Installation and Getting Started Guide*.

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。

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

Japan VCCI Class A Statement

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

臺灣 EMC 甲類聲明

警告：為避免電磁干擾，本產品不應安裝或使用於住宅環境。

Korea EMC Class A Statement

사용자 안내문

이 기기는 업무용 환경에서 사용할 목적으로 적합성평가를 받은 기기로서 가정용 환경에서 사용하는경우 전파간섭의 우려가 있습니다.

FCC Class A Statement

This equipment has been tested and found to comply with the limits for a Class A Digital device, pursuant to part 15 of the FCC Rules.

United Kingdom Marking

EU & UK Regulatory Contact:

HPE, Postfach 0001,1122 Wien, Austria

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.

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 8325H Switch

IMPORTANT: This section previews the steps for installing the S4B20A, S4B21A, S4B22A, S4B23A, S2T42A, S2T46A, S2T47A, and S2T48A switches. To find detailed switch installation steps, information on configuration tools, and other instructions and information, see the HPE Aruba Networking 8325H *Installation and Getting Started Guide*.

To install an HPE Aruba Networking 8325H switch, complete the following steps:

1. Prepare the installation site.
2. Unpack the switch and verify that you have received the correct parts.
3. Verify that the airflow direction for the switch is correct for your application.
4. Connect power to the switch and wait for the Global Status LED to turn green after the switch passes the self-test, then remove power from the switch.
5. Install the rack-mount tray.
6. Mount the switch onto the rack-mount tray.

   WARNING Do not mount the switch on a wall, under a table, or under any other horizontal surface.

7. Connect the switch to a power source.
8. (Optional) Install transceivers.
9. Connect the network cables.
10. Configure the switch for network operation.
11. For installation of PTP/1588-related timing cables for SMB ports, refer to a qualified professional installer to ensure proper grounding and cabling techniques are employed.

    NOTE The PTP/1588 feature is available for 8325H switches. If the feature is not available on your switch, it will be released in a future update.

Documentation Feedback

To help improve HPE Aruba Networking documentation, please send documentation suggestions, comments, and notice of any errors to Documentation Feedback (hpe-aruba-techpub@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.