

START HERE: Installation, Safety, and Regulatory Info for 6400 Switches and Accessories

For the latest Installation and Getting Started Guide and other documentation for the Aruba 6400 switches and accessories, visit the Aruba Support Portal at the following link:

<https://asp.arubanetworks.com/downloads>. Filter for the publications you want.

See the rest of this guide for important presetup information.

Except for the battery in the management module, there are no user-serviceable parts in the Aruba 6400 Series switches or accessories. For switch or accessory service needs, contact your authorized Aruba representative.

Applicable Products

Aruba 6400 Product	Base Product SKU	Aruba 6400 Product	Base Product SKU
Aruba 6405 Empty Chassis (non-orderable)	R0X24A	All Aruba 6400 Line Modules	R0Xnnx
Aruba 6410 Empty Chassis (non-orderable)	R0X25A	Aruba 6400 Fan Tray	R0X32A
Aruba 6405 Switch	R0X26A	Aruba 6400 4 Post Rack Mount Kit	R0X37A
Aruba 6410 Switch	R0X27A	Aruba 6400 1800W Power Supply and C16 Inlet Adapter	R0X35A
Aruba 6400 Management Module	R0X31A	Aruba 6400 3000W Power Supply and C20 Inlet Adapter	R0X36A



For R0X35A and R0X36A power supply information, see the START HERE: Installation, Safety, and Regulatory Information for the Aruba 6400 Power Supplies.

Overview Product Information

The Aruba 6400 Switch Series is a family of premium edge networking stackable switches, ideal for enterprise network access, aggregation, and core. They provide the foundation for high-performance networks supporting IoT, mobile, and cloud applications.

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.

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 and the product is not considered serviceable by an operator.

Installation Precautions and Guidelines

Using a mechanical lift to raise, lower, and move the Aruba 6400 chassis is the recommended best practice. If a mechanical lift is used, ensure that the configured weight does not exceed the maximum load capacity of the lift.

Install any uninstalled components **after** mounting the switch.

Figure 1 Aruba 6400 five-slot switch weight warning

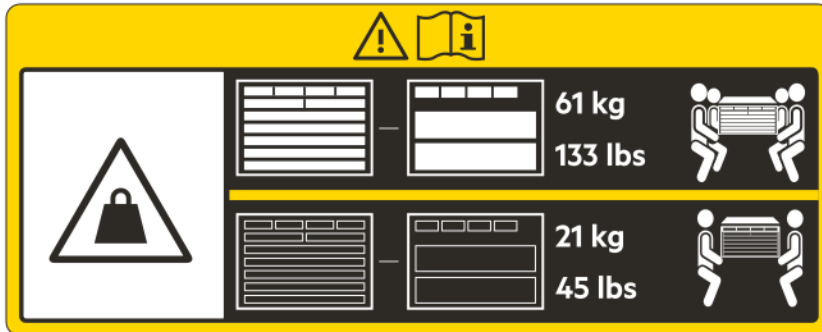
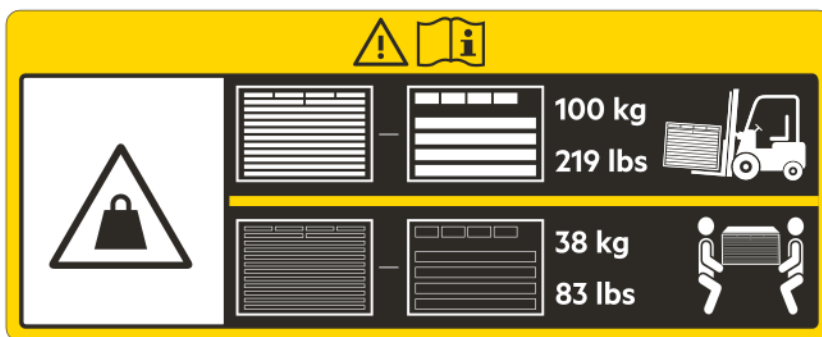


Figure 2 Aruba 6400 ten-slot switch weight warning



- To reduce the risk of personal injury or damage to equipment: ,
 - Heed all warnings and cautions throughout the installation instructions.
 - Observe local occupational health and safety requirements and guidelines for manual material handling.
 - **The switch is heavy.** Avoid personal injury due to the combined weight of the chassis and installed accessories. If your installation process includes manually lifting or carrying the switch instead of using a mechanical lift, uninstall the removable accessories from the switch before moving it. For information about removing and installing accessories, as well as the weight of the switch and individual accessories, see the latest Installation and Getting Started Guide for your switch.
- Mount devices installed in a rack or cabinet as low as possible. Install the heaviest devices at the bottom and progressively lighter devices above.
- To prevent the rack or cabinet from becoming unstable and/or falling over, ensure that it is adequately secured.
- Ensure that the rack or cabinet unit in which you plan to mount the 6400 switch is rated to support the full equipment load you plan to install in the unit.
- Before you use the switch, ground it reliably. See the latest version of the Installation and Getting Started Guide for your switch.

- Protect the switch and its components from damage caused by ESD (Electrostatic discharge):
 - See the ESD information in the latest version of the Installation and Getting Started Guide for your switch.
 - Always wear an ESD wriststrap when handling the switch or its components. Ensure the strap is reliably grounded when installing or removing switch components.
 - Hold management modules, line modules, and fabric modules by their edges. Do not touch any electronic components or printed circuitry.
 - Store uninstalled modules in antistatic bags.
- Do not ship the Aruba 6400 Series switch mounted in a rack without first checking for rack requirements and restrictions. Otherwise, damage to the switch or components may occur. Damage resulting from using unsupported methods or equipment to ship a rack-mounted chassis may void the switch warranty. See the latest version of the Installation and Getting Started Guide for your switch.
- Ensure the power source circuits for your 6400 Series switch are properly grounded. Connect the switch to the power sources by using the power cords supplied with the switch or power supply units.
- Only Aruba-approved power cords may be used with Aruba devices. See the power cord documentation provided in the latest version of the Aruba 6400 Switch Series Installation and Getting Started Guide. Lost or damaged power cords must be replaced only with Aruba-approved power cords.
- If your installation requires different power cords than the ones supplied with the switch or power supplies, be sure that the cords are adequately sized for the current requirements. In addition, be sure to use power cords 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. For more on power cords, see [Power Cords](#).
- When installing the switch, select AC outlets near the switch for easy access in case the switch must be powered off.
- Do not install the switch in an environment where the operating ambient temperature exceeds its specification. (For environmental specifications, see [Aruba 6400 Switch Series Safety and Regulatory 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 6400 Series switch. Then compare the total with the rating limit for the circuit. The maximum ampere ratings are printed on the devices near their AC power connectors.
- Ensure that the air flow through the chassis is not restricted. Leave a front and rear clearance of at least 30 cm (11.8 inches) for air flow. Air flow direction is front-to-rear.
- Install a blank slot cover on any empty management module, line module, power supply, or AC inlet slot opening in the chassis. This provision improves the flow of cooling air through the chassis. It also helps to contain radio frequency emissions that may interfere with the operation of other devices.
- If a power supply must be removed, and then reinstalled, wait at least 5 seconds before reinstallation. Otherwise, damage to the switch or its components may occur. The power supply needs this time to dissipate any retained power.
- The 6405 switch requires two fan trays. The 6410 switch requires four fan trays. For more information on fan trays, see the latest Installation and Getting Started Guide for your switch.
- For rack-free mounting requirements and warnings, see the latest Installation and Getting Started Guide for your switch.
- Protect the equipment from AC power fluctuations and temporary interruptions with a regulating facility Uninterruptible Power Supply (UPS) device. This device protects the hardware from damage caused by power surges and voltage spikes, which keeps the switch in operation during a power failure.

Power Inlet Modules

Install and secure the appropriate inlet modules using the provided screw **before** connecting to power. Ensure that each inlet module matches the power supply to which it connects (1800W or 3000W). See the latest version of the Installation and Getting Started Guide for more information on matching power inlet modules to the power supplies on your switch.

Do not energize the inlet modules outside the chassis. Before removing an inlet module from the chassis, disconnect the power cord from that inlet module.

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 6400 switch, see the section that lists power cords in the latest edition of the Aruba 6400 Switch Series Installation and Getting Started Guide.

Only Aruba-approved power cords may be used with Aruba devices. See the power cord documentation provided in the latest version of the Aruba 6400 Switch Series Installation 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, 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.

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.

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

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。
--------------------------	---

Environmental and Physical Specifications

Table 1: Environmental specifications for 6400 switch models

	Aruba 6400 (R0X26A, R0X27A, ROX28A, ROX29A, ROX30A)
Operating temperature	32°F to 113°F (0°C to 45°C) up to 5000 ft derate -1°C for every 1000 ft from 5000 ft to 10000 ft
Operating relative humidity	15% to 95% @ 104°F (45°C) non-condensing
Non-operating temperature	-40°F to 158°F (-40°C to 70°C) up to 15000 ft
Non-operating storage relative humidity	15% to 95% @ 149°F (65°C) non-condensing
Max operating altitude	10000 feet (3.05 km) Max
Max non-operating altitude	15000 feet (3.05 km) Max

Table 2: Dimensions and weights for 6400 switch models

Specification	ROX26A	ROX27A	ROX28A	ROX29A	ROX30A
Dimensions (height x width x depth)	12.1" x 17.5" x 17.7" (30.66 x 44.26 x 44.85 cm)	20.8" x 17.5" x 17.7" (52.88 x 44.26 x 44.85 cm)	12.1" x 17.5" x 17.7" (30.66 x 44.26 x 44.85 cm)	12.1" x 17.5" x 17.7" (30.66 x 44.26 x 44.85 cm)	12.1" x 17.5" x 17.7" (30.66 x 44.26 x 44.85 cm)
Configuration Weight	64.7 lbs (29.3 kg)	118.2 lbs (53.6 kg)	70.1 lbs (31.8 kg)	75.2 lbs (34.1 kg)	75 lbs (34.0 kg)

Aruba 6400 Switch Series 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>.

Table 3: Electrical information for Aruba modular power supplies using direct AC voltage

Switch product SKU	Maximum current	AC voltage	Frequency range
Any Aruba 6405 Switch populated with the ROX35A 1800W power supplies and C16 inlet modules	12A for 110-127VAC 10A for 200-240VAC	110-127 / 200-240	50/60 HZ
Any Aruba 6405 Switch populated with the ROX36A 3000W power supplies and C20 inlet modules	16A for 110-127VAC 16A for 200-240VAC		
Any Aruba 6410 Switch populated with the ROX35A 1800W power supplies and C16 inlet modules	12A for 110-127VAC 10A for 200-240VAC		
Any Aruba 6410 Switch populated with the ROX36A 3000W power supplies and C20 inlet modules	16A for 110-127VAC 16A for 200-240VAC		



The C16 inlet modules are designed to operate with the ROX35A (1800W) power supplies, and the C20 inlet modules are designed to operate with the ROX36A (3000W) power supplies. For more information on power supply and inlet module operation, see the latest Installation and Getting Started Guide for your switch model.

Table 4: Safety and regulatory information for Aruba 6400 switches

Topic	Range
Safety-EU	EN 60950-1:2006 +A11:2009 +A1:2010 +A12:2011+A2:2013

Topic	Range
	EN62368-1, Ed. 2
Safety-World Wide	IEC60950-1:2005 Ed.2; Am 1:2009+A2:2013 IEC62368-1, Ed. 2 IEC60825:2007 (Applies to products with lasers)
North American	UL60950-1, CSA 22.2 No 60950-1



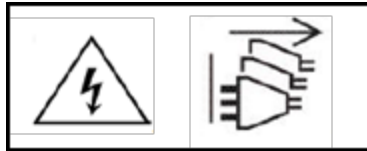
Environmental and other switch and modular power supply specifications, such as acoustics data are included in the Installation and Getting Started Guide for the switch.



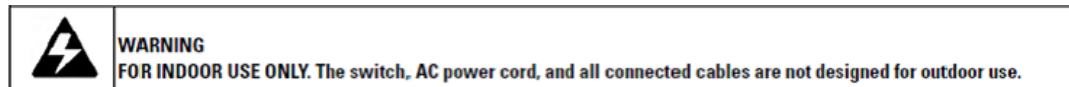
Use only supported Aruba SFP transceivers with your switch. For more on transceivers, see the latest edition of the ArubaOS-Switch and ArubaOS-CX Transceiver Guide.

When selecting a fiber SFP device, make sure it can function at a temperature that is not less than the recommended operational temperature of the product. Use only an approved Laser Class 1 SFP transceiver.

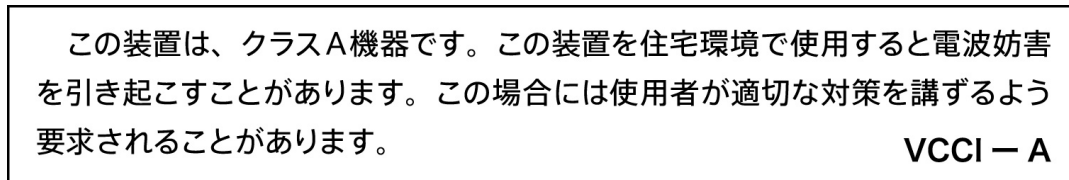
Shock hazard. To completely remove power from the switch, disconnect all power cords.



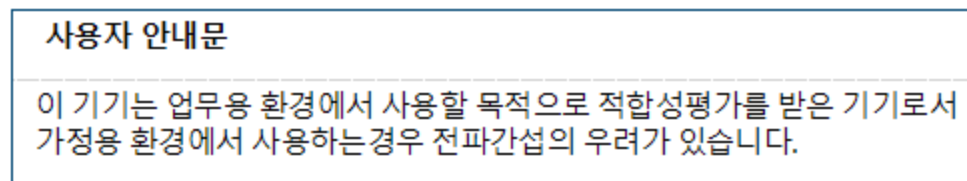
Interior Wiring.



Japan VCCI Class A statement



Korea EMC Class A statement



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>.

Preview of Installing an Aruba 6400 Switch



This section previews the steps for installing the Aruba 6400 switches. To find detailed switch installation steps, information on configuration tools, and other instructions and information, see the latest Installation and Getting Started Guide for your switch.

1. Prepare the installation site. (See the latest Installation and Getting Started Guide for your switch.)
2. Unpack the switch and verify that you have received the correct parts.
3. Install one or more power supplies and the matching AC Inlet Module if the switch was not shipped with power supplies and inlet modules already installed.
4. Install one or two management modules, depending on whether your order includes one or two management modules.
5. Install one or more line modules.
6. Connect power to the switch and observe the switch self-test, then remove power from the switch.
7. Mount the switch.
Weight and mounting restrictions apply. See the "Warning" information in the [Installation Precautions and Guidelines](#).
8. Connect the switch to a power source.
9. (Optional) Install transceivers.
10. Connect the network cables.
11. Configure the switch for network operation.

Documentation Feedback

Send any errors, suggestions, or comments to Documentation Feedback (docsfeedback@hpe.com).