Aruba 7030 Mobility Controller

Installation Guide

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Contents

This document describes the hardware features of the Aruba 7030 Controller. It provides a detailed overview of the physical and performance characteristics of each controller model and explains how to install the controller and its accessories.

Guide Overview

- Chapter 1, "7030 Mobility Controller" on page 5 provides a detailed hardware overview of the 7030 controller and each of its components.
- Chapter 2, "Installation" on page 15 describes how to install the 7030 controller in a number of ways and how to install each its components.
- Chapter 3, "Specifications, Safety, and Compliance" on page 23 lists the 7030 controller's technical specifications and safety and regulatory compliance information.

Related Documentation

The latest ArubaOS User Guide and ArubaOS CLI Reference Guide are required for the complete management of an Aruba controller. The latest documentation and the translation of this document into other languages can be found at www.arubanetworks.com/documentation.

Contacting Support

Main Site	arubanetworks.com
Support Site	support.arubanetworks.com
Airheads Social Forums and Knowledge Base	community.arubanetworks.com
North American Telephone	1-800-943-4526 (Toll Free) 1-408-754-1200
International Telephones	http://www.arubanetworks.com/support-services/support-program/contact-support
Software Licensing Site	licensing.arubanetworks.com
End of Support information	http://www.arubanetworks.com/support-services/end-of-life-products/end-of-life-policy/
Wireless Security Incident Response Team (WSIRT)	http://www.arubanetworks.com/support-services/security-bulletins/
Support Email Addresses	
Americas and APAC	support@arubanetworks.com

EMEA	emea_support@arubanetworks.com
WSIRT Email Please email details of any security problem found in an Aruba product.	wsirt@arubanetworks.com

Chapter 1
7030 Mobility Controller

The Aruba 7030 Controller is a wireless LAN controller that connects, controls, and intelligently integrates wireless Access Points (APs) and Air Monitors (AMs) into a wired LAN system.

The 7030 series includes the following two models, and they do not differ physically or functionally from each other:

- 7030-US: For the United States of America
- 7030-RW: For the rest of the world.

The 7030 controller has the following port configuration:

Table 1 *7030 Controller Port Configuration*

Model	Access Port	Number of APs Supported
7030-xx	8 x dual media ports (10/100/1000BASE-T and 1000BASE-X)	64

Package Checklist

Inform your supplier if there are any incorrect, missing, or damaged parts. If possible, retain the carton, including the original packing materials (see Table 3). Use these materials to repack and return the unit to the supplier if needed.

Table 2 *Package Contents*

Item	Quantity
Aruba 7030-xx Controller	1
Mounting Brackets	2
M6 x 15 mm Phillips Pan Head Screws	4
M3 x 6.5 mm Phillips Flat Head Screws	8
M6 x 7 mm Grounding Screws	2
AC Power Cord Retaining Clip	1
Power Cable	1
USB Console Cable	1
Rubber Feet	4
Aruba 7030 Installation Guide (Printed) (This document)	1
Quick Start Guide (Printed)	1
End User License Agreement (Printed)	1

Table 2 *Package Contents (Continued)*

Item	Quantity
Aruba Document Pointer (Printed)	1

NOTE

Optional accessories are available for use with the Aruba 7030 controllerand are sold separately. Contact your Aruba sales representative for details and assistance.

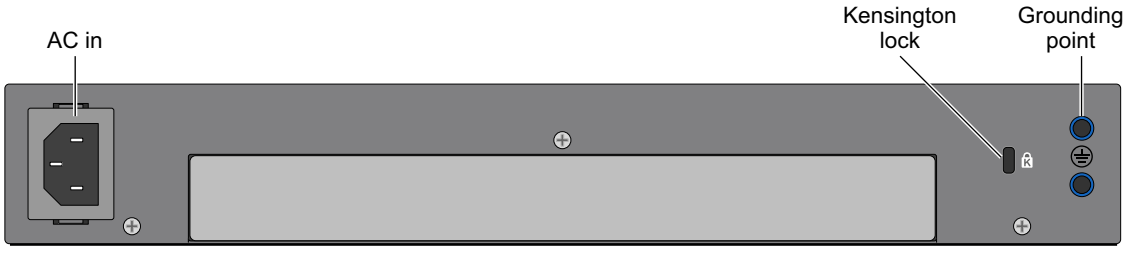
7030 Components

This section introduces the component and its location in the Aruba 7030 controller.

Figure 1 shows the front panel of the Aruba 7030 controller and Figure 2 shows the back panel of the Aruba 7030 controller.

Figure 1 *Front Panel of the Aruba 7030 Controller*

Figure 2 *Back Panel of the Aruba 7030 Controller*



The following table lists the components on the Aruba 7030 controller:

Table 3 Aruba 7030 Controller Components

Component	Description
Access Ports	8 x dual media ports (10/100/1000BASE-T and 1000BASE-X)
Power, Status, and Peered LEDs	Used for basic monitoring of the Aruba 7030 controller

Table 3 Aruba 7030 Controller Components (Continued)

Component	Description
LCD	Used to configure LED behavior and other basic operations
Menu Button	Used to select the LCD screen menu
Enter Button	Used to execute actions on the LCD Screen
USB Interface	1 x USB 2.0, USB storage device can be used to save and upload configurations
Console Port	RJ-45 serial console access port
Mini USB Console Port	Provides console access for direct local access
AC in	AC power connector
Kensington lock	Kensington lock security port
Grounding point	Grounding point

Dual-Media Ports

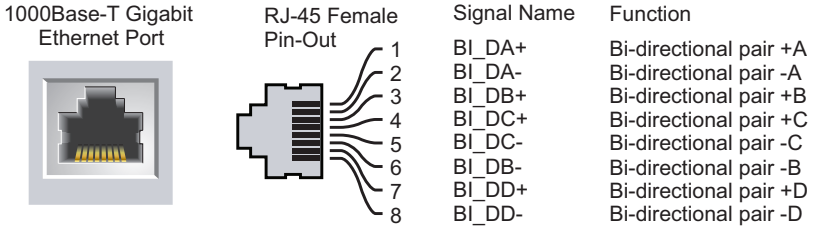
The 7030 is equipped with 8 dual-media ports (ports 0 through 7). These ports can utilize either the 1000Base-X or 10/100/1000Base-T connections provided. However, the 1000Base-X fiber connection has priority over the 10/100/1000Base-T copper connection. If a link is detected on the 1000Base-X interface, the 10/100/1000Base-T connection will be disabled.

Aruba tests and supports Aruba optics within their controller systems. Third party optics are not tested or supported; therefore, Aruba does not guarantee proper functionality of third party optics when used in an Aruba system.

10/100/1000Base-T (RJ-45) Ports

The 7030 is equipped with eight 10/100/1000Base-T copper ports, as a part of dual media ports. Gigabit Ethernet uses all eight wires and each pair is used in a bi-directional fashion, meaning the same pairs are used for both data transmission and reception. Figure 3 illustrates the CAT-5 pin-out found on an RJ-45 connector. The CAT-5 pin-out pairs the following pins on a 10/100/1000Base-T Gigabit Ethernet port: 1/2, 3/6, 4/5, and 7/8.

Figure 3 *10/100/1000Base-T Management Port Pin Out*



1000Base-X (SFP) Ports

The 7030 is equipped with eight 1000Base-X dual media ports for fiber connectivity only and are intended for use with Aruba SFPs (mini-GBICs).

Aruba tests and supports Aruba optics within their controller systems. Third party optics are not tested or supported; therefore, Aruba does not guarantee proper functionality of third party optics when used in an Aruba system.

Dual-Media Port LEDs

Each pair of Dual-Media ports is equipped two LEDs that allow you to monitor the status of and activity on the port. These LEDs provide basic monitoring of the status, activity, and basic configuration of each port. The behavior of the STATUS LED can be changed using the LCD.

- **LINK/ACT**: on the left side of the port, displays the link status of the port.
- **Status**: on the right side of the port, displays the status of the port. The information displayed by this LED changes based on LCD's mode. The LED behavior for each mode is describe in Table 5 and Table 6.

Table 4 *10/100/1000Base-T Port LEDs*

LED	Function	LCD Mode	Indicator	Status
LINK/ACT	Link status	N/A	Green (Solid)	Link has been established
			Green (Blinking)	Port is transmitting or receiving data
			Off	No link
Status	Port status	Administrative	Green (Solid)	Port Enabled
			Off	Port Administratively Disabled
		Duplex	Green (Solid)	Full-duplex
			Off	Half-duplex
		Speed	Green (Solid)	1000 Mbps
			Off	10/100 Mbps

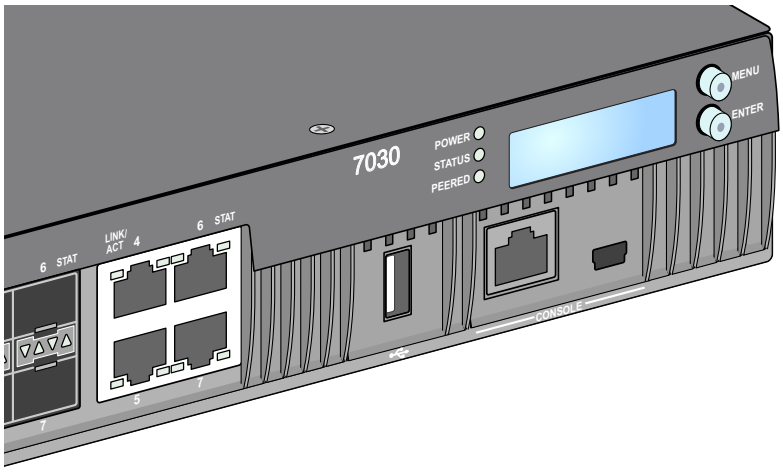
Table 5 *1000Base-X Port LEDs*

LED	Function	LCD Mode	Indicator	Status
LINK/ACT	Link status	N/A	Green (Solid)	Link has been established
			Green (Blinking)	Port is transmitting or receiving data
			Off	No link

Table 5 *1000Base-X Port LEDs*

LED	Function	LCD Mode	Indicator	Status
Status	Port status	Administrative	Green (Solid)	Port Enabled
			Off	Port Administratively Disabled
		Duplex	Green (Solid)	Full-duplex
			Off	N/A
		Speed	Green (Solid)	1 Gbps
			Off	N/A

Figure 4 *Ports, LEDs, and LCD Panel*



Power, Status, and Peered LEDs

The front panel also includes power, status, and peered LEDs that provide basic monitoring of the overall status of the Aruba 7030 controller. See Figure 4 on page 9.

Table 6 *Power, Status, and Peered LEDs*

LED	Function	Indicator	Status
Power	System Power	Green (Solid)	Power On
		Off	Power Off
Status	System status	Green (Solid)	Operational
		Green (Blinking)	Device is loading software
		Amber (Blinking)	Major Alarm
		Amber (Solid)	Critical Alarm
		Off	No power
Peered	Reserved for future use	N/A	N/A

LCD Panel

The Aruba 7030 controller is equipped with an LCD panel (see Figure 4) that displays information about the controller's status and provides a menu that allows basic operations such as initial setup and reboot. The LCD panel displays two lines of text with a maximum of 16 characters on each line. When using the LCD panel, the active line is indicated by an arrow next to the first letter.

The LCD panel is operated using the two navigation buttons to the right of the screen.

- **Menu**: Allows you to navigate through the menus of the LCD panel.
- **Enter**: Confirms and executes the action currently displayed on the LCD panel.

LCD Mode Menu

The LCD mode menu includes four modes as shown in the following table.

Table 7 *LCD Panel Mode*

LCD Mode	Function	Displays	Description
Boot	Displays the boot up status.	"Booting ArubaOS...	Displays boot status.
LED	Displays the mode of the port STATUS LED. The LED mode menu allows you to choose what information is communicated by the STATUS LEDs on each port. See Table 5 on page 8 for descriptions of the LED behavior of each mode.	LED mode: ADM	Administrative– Displays whether the port is administratively enabled or disabled.
		LED mode: DPX	Duplex– Displays the duplex mode of the port.
		LED mode: SPD	Speed– Displays the speed of the port.
		Exit	Exits LED menu.
Status	Displays the ArubaOS version.	OS Version	Displays the ArubaOS version.
		Exit	Exits Status menu.
Maintenance	Allows you to execute some basic operations of the Aruba 7030 controller such as uploading an image or rebooting the system.	Upgrade Image [Partition 0 [Y|N] | Partiion 1 [Y|N]]	Allows you to upgrade the software image on the selected partition from a predefined location on an attached USB flash device.
		Upload config [Y | N]	Uploads the controller's current configuration to a predefined location on the attached USB flash device.
		Factory Default [Y|N]	Allows you to reset the device to factory default settings.
		Media Eject [Y| N]	Completes the reading or writing of the attached USB device.
		Reload system [Y|N]	Allows you to reboot the device.
		Halt system [Y|N]	Allows you to halt the device.
		Exit	Exits Maintenance menu.

Disabling the LCD Screen

By default, the LCD screen is enabled. However, if the 7030 controller is deployed in a location without physical security, the LCD screen can be disabled through the CLI. When disabled, pushing one of the navigation buttons will only illuminate the LCD screen and display the slot, role, device name, and any alarms.

Additionally, it is possible to disable only the maintenance menu. This allows you to change the LED behavior and view the device status but prevent upgrades and configuration changes.

To disable the LCD screen, enter the Enable mode and use the following CLI commands:

```
(host) #configure terminal
(host) (config) #lcd-menu
(host) (lcd-menu) #disable menu
```

To disable only the Maintenance menu or one of its sub-menus, enter the Enable mode and use the following CLI commands:

```
(host) #configure terminal
(host) (config) #lcd
(host) (lcd-menu) #disable menu maintenance ?
   factory-default
   halt-system
   media-eject
   reload-system
   upgrade-image
   upload-config
(host) (lcd-menu) #disable menu maintenance upgrade-image ?
   partition0
   partition1
```

USB Interface

The Aruba 7030 controller is equipped with a USB 2.0 interface. See Figure 4 on page 9. A USB storage device can be used to save and upload configurations to the controller. USB functions are controlled through the LCD panel on the front of the controller. For more information on the LCD panel and its functions, see “LCD Panel” on page 10.

Mini USB Console Connector

The Aruba 7030 controller is equipped with one Mini USB (type B) connector that provides console access for direct local access. See Figure 4 on page 9. If both Mini USB and RJ-45 Console ports are connected, the Mini USB connection takes precedence over the RJ-45 Console connection.

Mini USB Driver

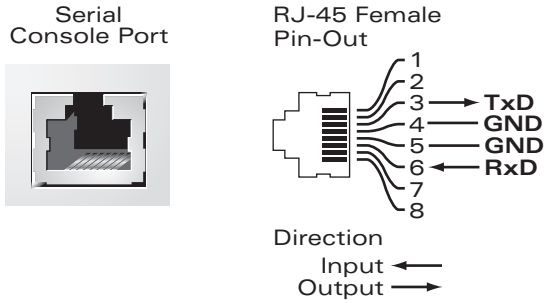
To use the Mini USB console port, you must install the Aruba Mini USB driver on the computer that will manage your controller. To download the driver, perform the following steps:

1. Go to https://support.arubanetworks.com.
2. Click on the **Tools & Resources** tab.
3. Open the **USB Console Driver** folder.
4. Open the **Mobility Controller and Mobility Access Switch** folder.
5. Select the appropriate file for your application. The corresponding operating system is in the file name.

Console Port

Use the serial CONSOLE port to allow direct local management. See Figure 4 on page 9. This port is a RJ-45 female connector that accepts an RS-232 serial cable with a male connector.

Figure 5 *Serial Console Port Pin-Out*



The communication settings for the Console port is shown in the following table:

Table 8 *Console Terminal Settings*

Baud Rate	Data Bits	Parity	Stop Bits	Flow Control
9600	8	None	1	None

CAUTION

The CONSOLE port is compatible only with RS-232 devices. Non-RS-232 devices, such as APs, are not supported.

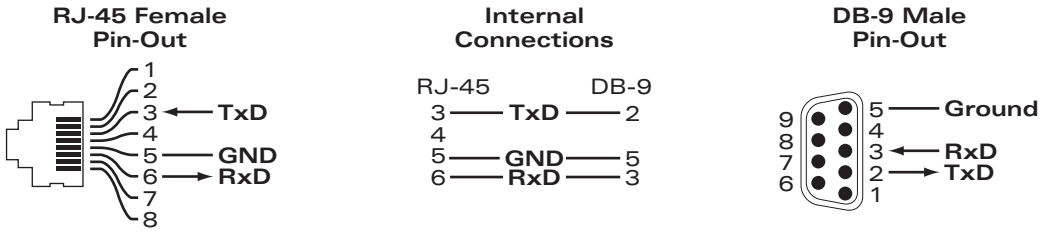
CAUTION

Do not connect the Console port to an Ethernet switch or a PoE power source. This may damage the controller.

Serial Console Port Adapter

A modular adapter can be used to convert the female RJ-45 connector to a male DB9 connector. See Figure 6 for complete details.

Figure 6 *RJ-45 (Female) to DB9 (Male) Modular Adapter Conversion*



Power Supply

The Aruba 7030 controller is equipped with an integrated AC power supply of 80W.

Grounding Point

To meet safety and electromagnetic interference (EMI) requirements and to ensure proper operation, the controller must be adequately grounded before power is connected. Connect a grounding cable to earth ground and then attach it to the chassis grounding point using two screws.

Comply with electrical grounding standards during all phases of installation and operation of the product. Do not allow the controller's chassis, network ports, power supply, or mounting brackets to contact any device, cable, object, or person attached to a different electrical ground. Also, never connect the device to external storm grounding sources

Kensington Lock

The 7030 controller is equipped with a Kensington security slot for additional security.

SFP Modules

SFP Modules, also known as mini-GBICs, are hot-swappable Gigabit Ethernet transceivers that provide optical or copper connections to other devices.

Aruba tests and supports Aruba approved optics within their controller devices. Non-approved third party optics are not tested or supported; therefore, Aruba does not guarantee proper functionality of non-approved third party optics when used in an Aruba system. For a complete list of Aruba approved optics, contact your Aruba sales representative.

Table 9 *Supported SFPs*

SFP	Description
SFP-SX	Aruba SFP, 1000BASE-SX, LC Connector; 850nm pluggable GbE optic; up to 300 meters over multi-mode fiber (Type OM2)
SFP-LX	Aruba SFP, 1000BASE-LX, LC Connector; 310nm pluggable GbE optic; up to 10,000 meters over single-mode fiber

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Chapter 2
Installation

CAUTION

Installation of the device should be performed by a trained installation professional.

This chapter describes how to install an Aruba 7030 controller using the many mounting options available. The 7030 controller ships with an accessory kit that includes the equipment needed to install the controller in standard, 19-inch telco rack or on a wall.

CAUTION

Please only use the included or Aruba specified cables, power cords, AC power supplies, and batteries. The power cord should not be used with other electric equipment than what is specified by Aruba.

CAUTION

接続ケーブル、電源コード、AC アダプタ、バッテリーなどの部品は、必ず添付品または指定品をご使用ください。また、電源ケーブルは弊社が指定する製品以外の電気機器には使用できないためご注意ください。

Precautions

- Ensure that the rack is correctly and securely installed to prevent it from falling or becoming unstable.
- Dangerous voltage above 240VAC is always present while the Aruba Power Supply Module is plugged into an electrical outlet. Remove all rings, jewelry, and other potentially conductive material before working with this device.
- Never insert foreign objects into the chassis, power supply, or any other component, even when the power supply is turned Off, unplugged, or removed.
- Ensure that the main power is fully disconnected from the controller by unplugging all power cords from their outlets. For safety, verify that the power outlets and plugs are easily reachable by the operator.
- Do not handle electrical cables which are not insulated. This also includes network cables.
- Keep water and other fluids away from the controller to minimize electrical hazards.
- Comply with electrical grounding standards during all phases of installation and operation of the product. Do not allow the controller's chassis, network ports, power supply, or mounting brackets to contact any device, cable, object, or person attached to a different electrical ground. Also, never connect the device to external storm grounding sources.
- Perform installation or removal of the chassis or any module in a static-free environment. Proper use of anti-static body straps and mats is strongly recommended.

- Modules must be kept in anti-static packaging when not installed in the chassis.
- Do not ship or store this product near strong electromagnetic, electrostatic, magnetic, or radioactive fields.
- Do not disassemble the chassis.

Selecting a Location

The 7030 controller, like other network and computing devices, requires the following “electronic-friendly” environment:

- Reliable power

  Verify that your electrical outlet is compatible with the 7030 controller power supply.
- Cool, non-condensing ventilation

  For proper operation, the 7030 controller requires an environment with an ambient air temperature between 0º C and 40º C (32º F and 104º F). Humidity must be kept at non-condensing levels, between 5% and 95%.

  Where a large number of electrical devices are working in the same area, additional air conditioning or air circulation equipment may be required.
- Ample space

  For proper air circulation, leave at least 10 cm (4 inches) clearance all around the chassis.

  Leave additional space in front and rear side of the chassis to access power cords, network cables, and indicator LEDs.
- Limited electromagnetic interference

  For best operation, keep the 7030 controller and all cords and cables at least 0.7 meters (2 feet) from fluorescent lighting fixtures, and 2 meters (6 feet) from photocopiers, radio transmitters, electric generators, and other sources of strong electromagnetic interference.

Rack Mounting- Standard

This mounting option allows mounting the 7030 controller in a two-post 19-inch Telco rack.

Each 7030 controller should have its own mounting equipment. Do not place other networking equipment directly on top of a mounted 7030 controller. Failure to do so can damage the device.

Required Tools and Equipment

The following tools and equipment are required for installing a 7030 controller:

- Mounting Bracket (x2) (included in the kit): Do not use for table or shelf installation
- Screws for mounting bracket (x8): M3 x 6.5 mm Phillips Flat Head Screws (included in the kit)
- Screws for system rack mount (4x): M6 x 15 mm Phillips Pan Head Screws (included in the kit)
- Suitable Screwdrivers for all screw types provided in the box (not included in the kit)

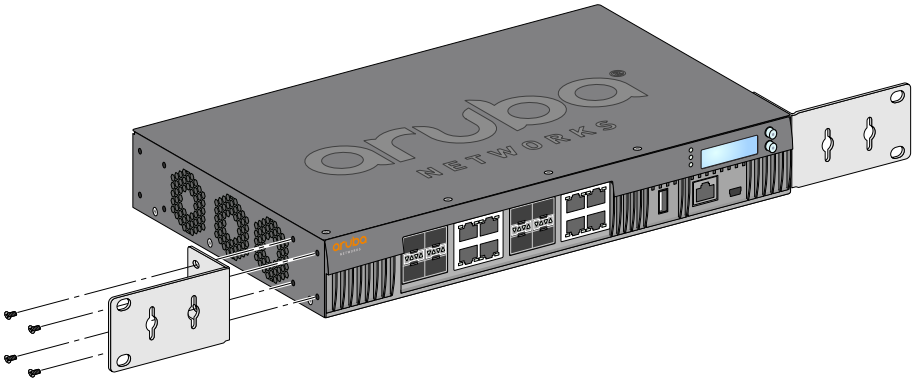
Some racks require screws that differ from those included with the 7030 controller. Ensure that you have the correct screws before installing the 7030 controller.

Installation Steps

To install a 7030 controller into a two-post 19-inch Telco rack:

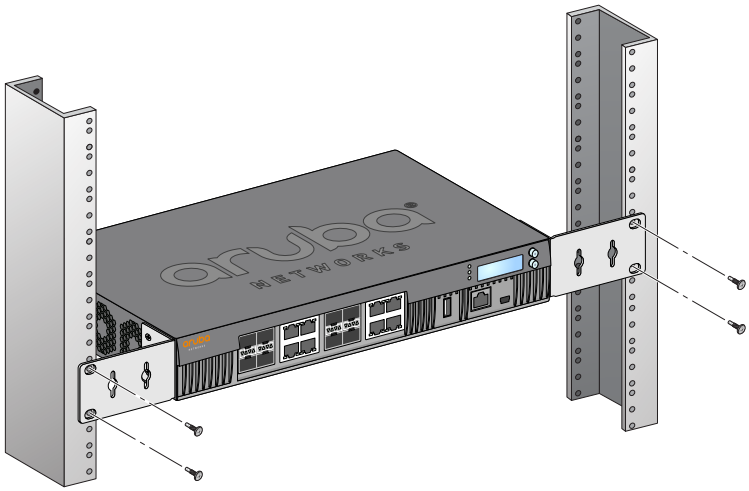
1. Place the mounting bracket over the mounting holes on the controller (see Figure 7).
2. Secure the bracket to the controller using the eight screws for the mount bracket (four per bracket) and a suitable screwdriver.

Figure 1 *Rack Mount Brackets*



3. Mount the controller within your organization's rack system using the four screws for system rack mount (two per bracket) and a suitable screwdriver (see Figure 8).

Figure 2 *Rack Mount Installation*



NOTE

Leave a minimum of 10 cm (4 inches) of space on the left and right side of the controller for proper air flow and ventilation.
Leave additional space in the front and the back of the controller to access network cables, LED status indicators, and power cord.

Table or Shelf Installation

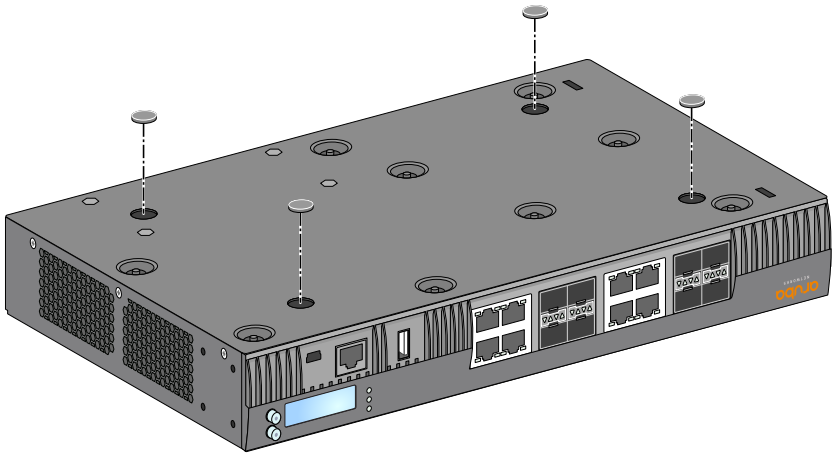
Required Tools and Equipment

- Rubber Feet (included in the kit)

Installation Steps

1. Attach the rubber feet to the bottom of the controller (see Figure 9).

Figure 3 *Attaching Rubber Feet*



2. Place the controller in the location you have chosen.

Wall Mounting

The mounting brackets can also be used for wall mounting the 7030 controller.

Required Tools and Equipment

The following tools and equipment are required for installing a 7030 controller on a wall:

- Mounting Brackets (2x) (included in the kit)
- Screws for mounting bracket (x8): M3 x 6.5 mm Phillips Flat Head Screws (included in the kit)
- Wall Anchors: Optional accessory (not included in the kit)
- Wall Mounting Screws: The type of screw depends on the installation surface (not included in the kit)
- Suitable Screwdrivers for all screw types (not included in the kit)

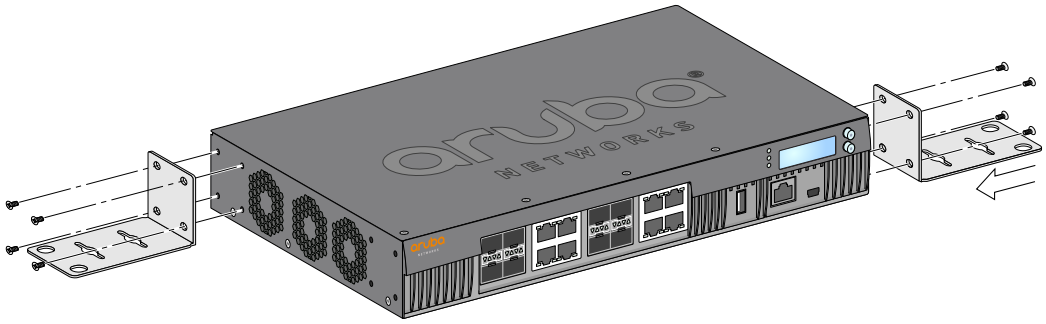
Installation Steps

To install a 7030 controller on a wall:

Ensure that the Ethernet ports are facing down when installing the 7030 controller on a wall.

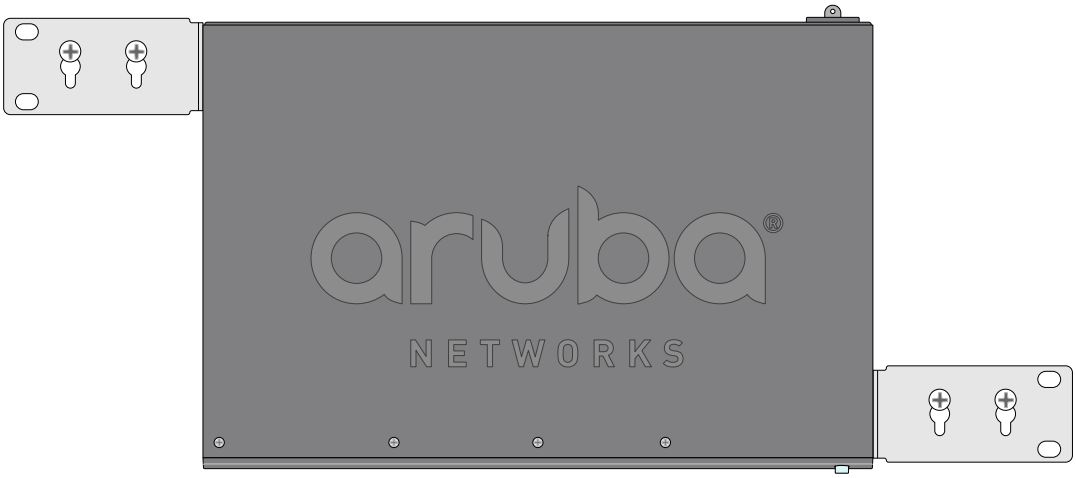
1. Fasten the mounting brackets over the mounting holes on the sides of the 7030 controller using the eight screws for mounting bracket (four per bracket) and a suitable screwdriver (see Figure 10).

Figure 4 *Attaching the Wall Mount Brackets*



2. After you have chosen a mounting location, mark the locations on the wall where you intend to make mounting holes.
3. Create the holes and insert wall anchors if your installation requires them.
4. Align the mounting bracket holes with the holes you created in the wall (see Figure 11).

Figure 5 *Wall Mounting*



5. Use appropriate screws to secure the 7030 controller.

Connecting and Disconnecting the AC Power Cord

Once you have installed the 7030 controller, you are ready to power On the device. The 7030 controller is not equipped with an On/Off switch. The device will power On when the AC power cord is connected to the AC inlet and an AC power outlet.

Connecting the AC Power Cord

To connect the AC power cord to the 7030 controller:

1. Lift the power cord retaining clip so that it is not blocking the AC power connector.
2. Insert the coupler end of the AC power cord into the AC power connector on the AC inlet.
3. Lower the power cord retaining clip over the AC power cord.

The 7030 controller should now be receiving power.

Disconnecting the AC Power Cord

To disconnect the AC power cord from the 7030 controller:

1. Lift the power cord retaining clip off the AC power cord.
2. Pull the AC power cord from the power supply module.
3. The 7030 controller is now turned Off.

Installing an SFP

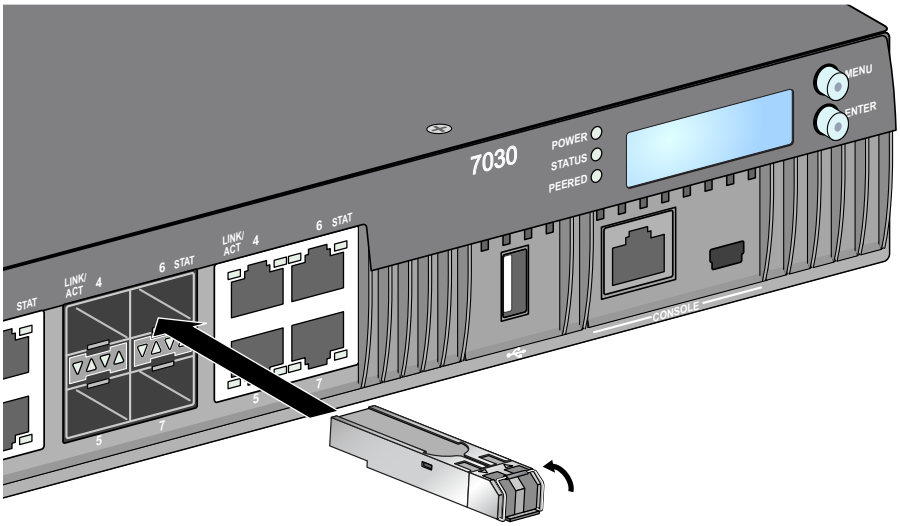
NOTE

Use standard ESD precautions when installing or removing an SFP.

To install an SFP module into the 7030:

1. Slide the SFP module into a dual media port until a connection is made and an audible click is heard (see Figure 12).

Figure 6 *Installing an SFP*



Removing an SFP

To remove an SFP module:

1. Open and release the latch on the SFP module.
2. Pull and remove the module from the port.

Connecting an LC Fiber Optic Cable

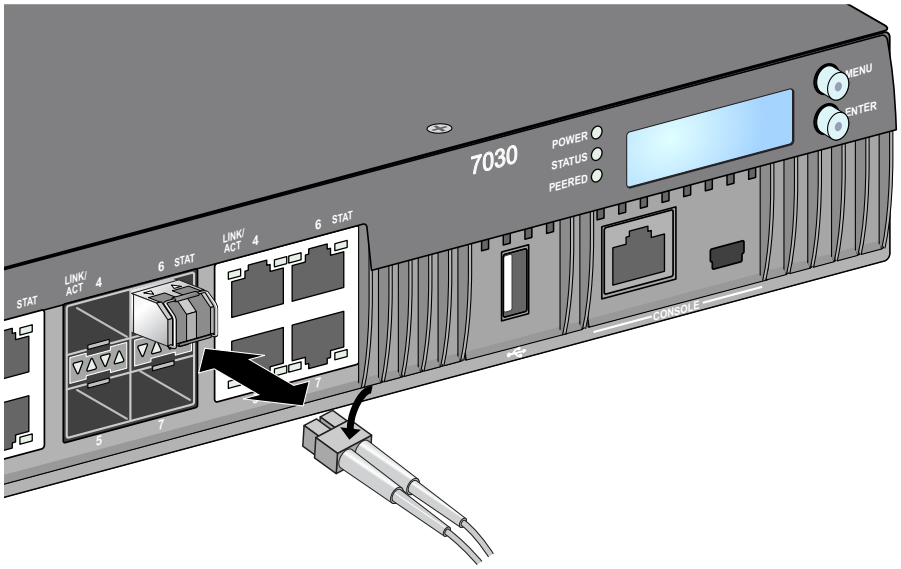
To connect an LC fiber optic cable into an SFP module:

1. Clean the fiber optic cable connector before inserting it into the SFP module.
2. Insert the fiber optic cable into the SFP module. Ensure that the latch on the cable faces the top of the SFP module.
3. Slide the cable into place until a connection is made and an audible click is heard.

To disconnect an LC fiber optic cable from an SFP module:

1. Depress the transceiver handle to release the latch on the cable and simultaneously pull the cable out of the port.

Figure 7 *Connecting an LC Fiber Optic Cable*



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7030 Specifications

Physical

- Device Dimensions (without mounting brackets) (HxWxD): 1.72” x 12.0” x 8.3” (4.37 cm x 30.48 cm x 21.08 cm)
- Device Weight: 4.54 lbs (2.06 kg)

Power Supply Specifications

- 80W AC Power Supply
  - AC Input Voltage: 100 VAC to 240 VAC
  - AC Input Current: 2A
  - AC Input Frequency: 50 to 60 Hz

Operating Specifications

- Operating Temperature Range: 0 °C to 40 °C (32 °F to 104 °F)
- Operating Humidity Range: 5% to 95% (RH), non-condensing

Storage Specifications

- Storage Temperature Range: 0 °C to 50 °C (32 °F to 122 °F)
- Storage Humidity Range: 5% to 95% (RH), non-condensing

Safety and Regulatory Compliance

Aruba Networks provides a multi-language document that contains country-specific restrictions and additional safety and regulatory information for all Aruba products. This document can be viewed or downloaded from the following location: www.arubanetworks.com/safety_addendum

Regulatory Model Name

The regulatory model name for the 7030 is **ARCN7030**.

The Aruba controllers must be installed by a professional installer. The professional installer is responsible for ensuring that grounding is available and it meets applicable local and national electrical codes.

CAUTION

Use of controls or adjustments of performance or procedures other than those specified in this manual may result in hazardous radiation exposure.

This product complies with 21 CFR Chapter 1, Subchapter J, Part 1040.10, and IEC 60825-1: 1993, A1: 1997, A2: 2001, IEC 60825-2: 2000.

For continued compliance with the above laser safety standards, only approved Class 1 modules from our approved vendors should be installed in the product.

CAUTION

Although this controller has been tested to up to 1kV per CE immunity requirements, this product requires surge protection to be provided as part of the building installation to protect against unidirectional surges resulting from electrical switching and lightning strikes.
For protection against these surges in an outdoor installation, any exposed wiring must be shielded, and the shield for the wiring must be grounded at both ends.

Electromagnetic Interference

United States

FCC Class A

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. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at their own expense.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This product complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Canada

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus as set out in the interference-causing equipment standard entitled "Digital Apparatus," ICES-003 of the Department of Communications.

Cet appareil numérique respecte les limites de bruits radioélectriques applicables aux appareils numériques de Classe A prescrites dans la norme sur le matériel brouilleur: "Appareils Numériques," NMB-003 édictée par le ministère des Communications.

EU Regulatory Conformance

This product is CE marked according to the provisions of the EMC Directive (2004/108/EC) - CE. Aruba hereby declares that 7030 controller device models are in compliance with the essential requirements and other relevant provisions of Directive (2004/108/EC). CE The Declaration of Conformity made under Directive 1999/5/EC is available for viewing on www.arubanetworks.com.

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

Europe

This is a Class A product. In a domestic environment, this product may cause radio interference in which case the user may be required to take adequate measures.

This product complies with EN55022 Class A and EN55024 standards.

South Korea

Class A:

이 기기는 업무용(A급) 전자파 적합기기로서 판매자 또는 사용자는 이 점을 주의하시기 바라며,

가정외의 지역에서 사용하는 것을 목적으로 합니다.

Taiwan (BSMI)

警告使用者：
這是甲類的資訊產品，在居住的環境中使用
時，可能會造成射頻干擾，在這種情況下，
使用者會被要求採取某些適當的對策。

Battery Statements

Il y a danger d’explosion s’il y a remplacement incorrect de la batterie.
Remplacer uniquement avec une batterie due même type ou d’un équivalent recommandé par le constructeur.
Mettre au rebut les batteries usagées conformément aux unstruction du fabricant.

The battery supplied with this product may contain perchlorate material. Special handling may apply in California and other certain states. See www.dtsc.ca.gov/hazardouswaste/perchlorate for more information.

Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.

Proper Disposal of Aruba Equipment

Waste of Electrical and Electronic Equipment

Aruba products at end of life are subject to separate collection and treatment in the EU Member States, Norway, and Switzerland and therefore are marked with the symbol shown at the left (crossed-out wheelie bin). The treatment applied at end of life of these products in these countries shall comply with the applicable national laws of countries implementing Directive 2002/96EC on Waste of Electrical and Electronic Equipment (WEEE).

European Union RoHS

Aruba products also comply with the EU Restriction of Hazardous Substances Directive 2002/95/EC (RoHS). EU RoHS restricts the use of specific hazardous materials in the manufacture of electrical and electronic equipment. Specifically, restricted materials under the RoHS Directive are Lead (including Solder used in printed circuit assemblies), Cadmium, Mercury, Hexavalent Chromium, and Bromine. Some Aruba products are subject to the exemptions listed in RoHS Directive Annex 7 (Lead in solder used in printed circuit assemblies). Products and packaging will be marked with the “RoHS” label shown at the left indicating conformance to this Directive.

China RoHS

Aruba products also comply with China environmental declaration requirements and are labeled with the “EFUP 50” label shown at the left.

有毒有害物质声明

Hazardous Materials Declaration

部件名称 (Parts)	有毒有害物质或元素 (Hazardous Substances)					
	铅 Lead (Pb)	汞 Mercury (Hg)	镉 Cadmium (Cd)	六价铬 Chromium VI Compounds (Cr^{6+})	多溴联苯 Polybrominated Biphenyls (PBB)	多溴二苯醚 Polybrominated Diphenyl Ether (PBDE)
电路板 PCA Board	X	O	O	O	O	O
机械组件 Mechanical Subassembly	X	O	O	O	O	O
电源适配器 Power Adaptor	X	O	O	O	O	O

O: 表示该有毒有害物质在该部件所有均质材料中的含量均在SJ/T11363-2006标准规定的限量要求以下。
This component does not contain this hazardous substance above the maximum concentration values in homogeneous materials specified in the SJ/T11363-2006 Industry Standard.

X: 表示该有毒有害物质至少在该部件的某一均质材料中的含量超出SJ/T11363-2006标准规定的限量要求。
This component does contain this hazardous substance above the maximum concentration values in homogeneous materials specified in the SJ/T11363-2006 Industry Standard.

对销售之日的所售产品，本表显示，供应链的电子信息产品可能包含这些物质。
This table shows where these substances may be found in the supply chain of electronic information products, as of the date of sale of the enclosed product.

此标志为针对所涉及产品的环保使用期标志.
某些零部件会有一个不同的环保使用期(例如，电池单元模块)贴在其产品上.
此环保使用期限只适用于产品是在产品手册中所规定的条件下工作.
The Environment- Friendly Use Period (EFUP) for all enclosed products and their parts are per the symbol shown here. The Environment- Friendly Use Period is valid only when the product is operated under the conditions defined in the product manual.

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