


Aruba 7024 Controller



Installation Guide

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This document describes the hardware features of the Aruba 7024 Controller. It provides a detailed overview of the physical and performance characteristics of the controller and explains how to install the controller and its accessories.

Guide Overview

- [7024 Controller on page 9](#) provides a detailed hardware overview of the 7024 controller and its components.
- [Installation on page 19](#) describes how to install the 7024 controller and its components.
- [Specifications, Safety, and Compliance on page 29](#) provides the 7024 controller's technical specifications and safety and regulatory compliance information.

Related Documentation

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

Contacting Support

Table 1: *Contact Information*

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 Telephone	http://www.arubanetworks.com/support-services/support-program/contact-support/
Software Licensing Site	https://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, EMEA, and APAC	support@arubanetworks.com
Security Incident Response Team (SIRT)	sirt@arubanetworks.com

The 7024 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.

There are two models of the 7024 controller that do not differ physically or functionally from each other.

- 7024-US: For the United States of America
- 7024-RW: For the rest of the world

The 7024 controller has the following port configuration:

Table 2: 7024 Controller Port Configuration

Model	Access Ports	Uplink Ports	Number of APs Supported	Number of Users Supported
7024	24 x 10/100/1000BASE-T PoE/PoE+	2 x 10GBASE-X (SFP/SFP+)	32	2048



The 7024 controller requires ArubaOS 6.4.3.1 or later version.

Packaging 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 3: Package Contents

Item	Quantity
7024 Controller	1
Standard Mounting Brackets	2
M6 x 15 mm Phillips Pan Head Screws	4
M4 x 8 mm Phillips Flat Head Screws	8
M6 x 7 mm Grounding Screws	2
AC Power Cord Retaining Clip	1
Power Cable	1
Micro-USB Cable	1
Rubber Feet	4

Table 3: Package Contents

Item	Quantity
Installation Guide (this document, printed)	1
Quick Start Guide (printed)	1
End User License Agreement (printed)	1



Optional accessories are available for use with the 7024 controller and are sold separately. Contact your Aruba sales representative for details and assistance.

7024 Components

This section introduces the component and its location in the 7024 controller. [Figure 1](#) shows the front panel of the 7024 controller and [Figure 2](#) shows the back panel of the 7024 controller.

Figure 1 Front Panel of the 7024 Controller.

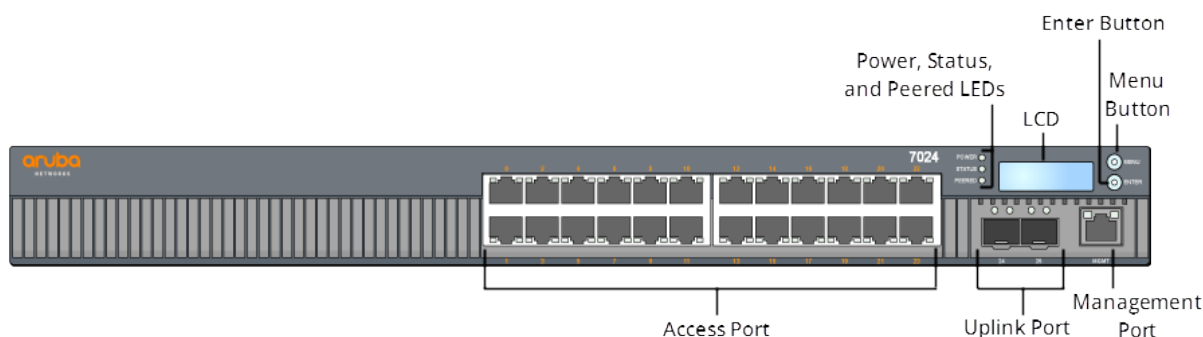


Figure 2 Back Panel of the 7024 Controller



The following table lists the different components of the 7024 controller:

Table 4: 7024 Controller Components

Component	Description	Page
Access ports	24 x 10/100/1000BASE-T PoE/PoE+ Ethernet ports	11
Uplink ports	2 x 10GBASE-X ports (SFP/SFP+)	12
Management port	Allows connection to a separate management network	14
Power, Status, and Peered LED	Provides basic monitoring of the controller	14

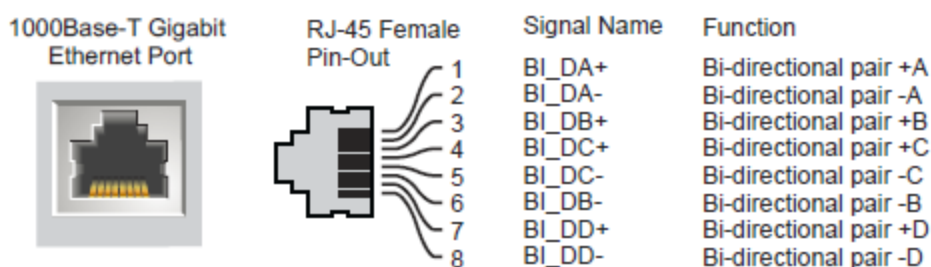
Table 4: 7024 Controller Components

Component	Description	Page
LCD	Allows configuration of LCD behavior and other basic operations	15
Enter button	Allows execution of actions on the LCD Screen	
Menu button	Allows selection of the LCD screen menu	
USB interface	Allows uploading configuration and image from a USB 2.0 storage device.	17
Serial Console port	RJ-45 serial console access port for direct local management	17
Micro-USB console port	Micro-USB console access port for direct local management	18
AC in	AC power connector	18
Grounding points	Provided for attaching the grounding	18

Access Ports

The 7024 controller is equipped with twenty-four 10/100/1000BASE-T Gigabit Ethernet (RJ-45) ports. These port are labeled from 0 to 23. Gigabit Ethernet uses all eight wires and each pair is bi-directional, which means, the same pair is used for both data transmission and data reception. [Figure 3](#) illustrates the Gigabit Ethernet port pin-out for an RJ-45 connector. The pins paired on a 10/100/1000BASE-T Gigabit Ethernet port are: 1/2, 3/6, 4/5, and 7/8.

All Power over Ethernet (PoE) capable ports support IEEE 802.3af PoE, providing up to 15.4 W of DC power, and IEEE 802.3at Power over Ethernet Plus (PoE+), supplying up to 30.0 W of DC power to connected devices, but the power per port is subject to the total PoE power available in the chassis.

Figure 3 10/100/1000BASE-T Port Pin Out

Access Port LEDs

Each 10/100/1000BASE-T Gigabit Ethernet port is equipped two LEDs that allow basic monitoring of status, activity, and configuration of the port.

- **LINK/ACT**— Placed on the left side of the port, this LED displays the link status and activity of the port.
- **STATUS**— Placed on the right side of the port, this LED displays the status of the port. The information displayed by this LED changes based on the LCD mode. The LED behavior corresponding to each LCD mode is listed in [Table 5](#).

Table 5: 10/100/1000BASE-T Port LEDs

LED	Function	LCD Mode	Indicator	Status
LINK/ACT	Link status	Link status	Green (Solid)	Link 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
		PoE	Green (Solid)	PoE enabled
			Green (Blinking)	Power enabled, but power denied due to unavailability
			Off	PoE not enabled
		Speed	Green (Solid)	1000 Mbps
			Off	10/100 Mbps

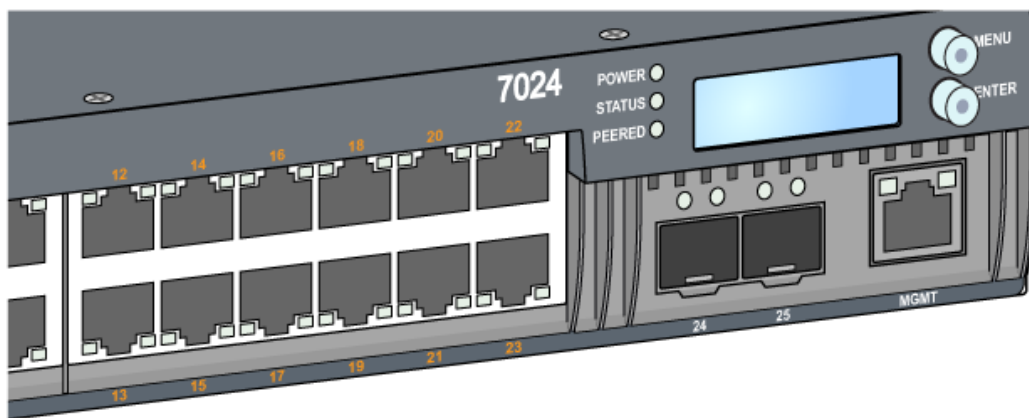
Uplink Ports

The 7024 controller is equipped with two 10GBase-X (SFP+) uplink ports (24 and 25). These ports are intended for use with SFP/SFP+. See [Figure 4](#).



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.

Figure 4 10GBase-X Ports, LCD Panel, and LEDs



Uplink Port LEDs

Each 10GBASE-X port is equipped with two LEDs that allow basic monitoring of status, activity, and configuration of the port. The behavior of the STATUS LED can be changed using the LCD.

- **LINK/ACT**— Placed on the top left of the port, this LED displays the link status and activity of the port.
- **STATUS**— Placed on the top right of the port, this LED displays the status of the port. The information displayed by this LED changes based on the LCD mode. The LED behavior corresponding to each LCD mode is listed in [Table 6](#).

Table 6: 10GBASE-X Port LEDs

LED	Function	LCD Mode	Indicator	Status
LINK/ACT	Link status	NA	Green (Solid)	Link 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	Duplex	Green (Solid)	Full-duplex
			Off	NA
	Speed	Speed	Green (Solid)	10 Gbps
			Off	1 Gbps

SFP/SFP+ Modules and DAC Cables

SFP/SFP+ modules, also known as mini-GBICs, are hot-swappable and provide optical or copper connections to other devices.

Direct attach cables (DACs) are installed in an uplink port in the same manner as an SFP/SFP+ module.

For the list of Aruba approved DAC cables and SFP/SFP+ modules for controllers, see [Table 7](#) and [Table 8](#).



Other non-approved third-party optics or DAC cables are not tested or supported by Aruba on controllers; therefore, Aruba does not guarantee their proper functionality when used with Aruba controllers.

For information on how to install an SFP/SFP+ module or a DAC cable, see [Installing an SFP/SFP+ Module on page 26](#).

Table 7: Supported DAC Cables

DAC	Description
DAC-SFP-10GE-50CM	50cm Direct Attach Cable; 10G SFP+
DAC-SFP-10GE-1M	1m Direct Attach Cable; 10G SFP+
DAC-SFP-10GE-3M	3m Direct Attach Cable; 10G SFP+
DAC-SFP-10GE-5M	5m Direct Attach Cable; 10G SFP+
DAC-SFP-10GE-7M	7m Direct Attach Cable; 10G SFP+

Table 8: Supported SFP/SFP+ Modules

SFP/SFP+	Description
SFP-SX	SFP, 1000BASE-SX, LC Connector; 850nm pluggable GbE optic; up to 300 meters over multi-mode fiber (Type OM2).
SFP-LX	SFP, 1000BASE-LX, LC Connector; 310nm pluggable GbE optic; up to 10,000 meters over single-mode fiber.
SFP-TX	SFP, 1000BASE-T SFP; copper GbE pluggable; RJ45 connector; up to 100 meters over Category-5, 5e, 6 and 6a unshielded twisted pair cable.
SFP-EX	1000BASE-ZX SFP; 1310nm pluggable GbE optic; LC connector; up to 40,000 meters over singlemode fiber.
SFP-ZX	1000BASE-ZX SFP; 1310nm pluggable GbE optic; LC connector; up to 70,000 meters over singlemode fiber
SFP-10G-SR	SFP+, 10GBASE-SR, 850nm serial pluggable SFP+ optic, target range 300m over MMF, LC Connector
SFP-10G-LR	SFP+, 10GBASE-LR, 1310nm serial pluggable SFP+ optic for up to 10km over SMF, LC Connector
SFP-10G-LRM	SFP+, 10GBASE-LRM, 1310nm serial pluggable SFP+ optic, long-reach multimode, LC Connector
SFP-10G-ER	SFP+, 10GBASE-ER, 1310nm pluggable 10GE optic; up to 40,000 meters over single-mode fiber, LC connector
SFP-10G-ZR	SFP+, 10GBASE-ZR, 1310nm pluggable 10GE optic; up to 70,000 meters over single-mode fiber, LC connector

Management Port

The 7024 controller is equipped with a 10/100/1000BASE-T Gigabit Management (RJ-45) port on the front (see [Figure 4](#)). The management port provides 10/100/1000 Mbps Ethernet access to the controller CLI, SNMP, and Web interface for complete system management and troubleshooting. It can also be used to connect to a separate management network. The management port has a LINK/ACT LED on its left side and SPEED LED on its right side. During operation, these LEDs provide status information as shown in the following table:

Table 9: 10/100/1000BASE-T (RJ-45) Management Port

LED	Function	Indicator	Status
LINK/ACT	Link Status	Green (Solid)	Link established
		Green (Blinking)	Link activity
		Off	No link on port
SPEED	Interface Speed	Green (Solid)	1000Mbps
		Off	10/100Mbps

Power, Status, and Peered LEDs

The front panel of the controller also includes Power, Status, and Peered LEDs (see [Figure 4](#)), that provide basic monitoring of the overall status of the controller. The following table describes the different behavior of these LEDs:

Table 10: 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	NA	NA

LCD Panel

The 7024 controller is equipped with an LCD panel 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 per 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. See [Figure 4](#).

- Menu: Allows navigation through the menus of the LCD panel
- Enter: Confirms and executes the action currently displayed on the LCD panel

LCD Mode Menu

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

Table 11: LCD Panel Mode

LCD Mode	Function	Displayed Status/ Command	Description
Boot	Displays the boot status of the controller.	"Booting ArubaOS...	Boot status of the controller
LED	Displays the mode of the STATUS LED of ports. The LED mode menu allows to choose what information is communicated by the STATUS LEDs on each port. See Table 5 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	Exit LED menu

Table 11: LCD Panel Mode

LCD Mode	Function	Displayed Status/ Command	Description
Status	Displays the ArubaOS version.	OS Version	ArubaOS version
		Exit	Exit Status menu
Maintenance	Allows execution of some basic operations such as uploading an image or rebooting the controller.	Upgrade Image [Partition 0 [Y N] Partition 1 [Y N]]	Upgrade the controller image on the selected partition from a predefined location on an attached USB flash device
		Upload config [Y N]	Upload the controller's current configuration to a predefined location on the attached USB flash device
		Factory Default [Y N]	Reset the controller to factory default settings
		Media Eject [Y N]	Complete reading or writing to the attached USB device
		Reload system [Y N]	Reload controller
		Halt system [Y N]	Halt controller
		Exit	Exit Maintenance menu

Disabling the LCD Screen

By default, the LCD screen is enabled. However, if the 7024 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 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
```

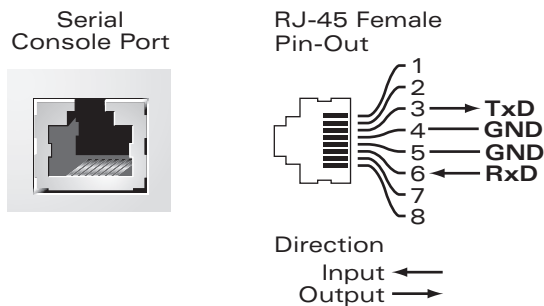

USB Interface

The 7024 controller is equipped with a USB 2.0 interface on the back panel of the controller. 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 15](#).

Serial Console Port

For direct local management of the controller, use the serial console port located on the back panel of the controller. The port is an 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 are shown in the following table:

Table 12: Console Terminal Settings

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



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



Le port CONSOLE est compatible uniquement avec les périphériques RS-232. Les périphériques qui ne sont pas de type RS-232, notamment les points d'accès, ne sont pas pris en charge.



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

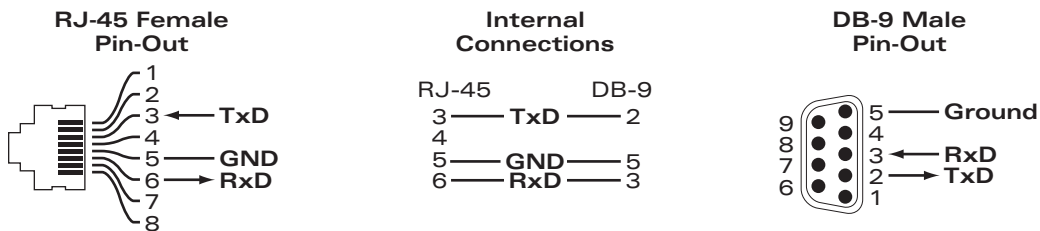


Ne connectez pas le port Console sur un commutateur Ethernet ou une source d'alimentation PoE. Sinon, vous risquez d'endommager le contrôleur.

Serial Console Port Adaptor

A modular adaptor can be used to convert the female RJ-45 connector to a male DB9 connector. See [Figure 6](#) for details.

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



Micro-USB Console Port

The 7024 controller is equipped with one Micro-USB (type B) connector on the back panel of the controller that provides console access for direct local access. If both Micro-USB and RJ-45 Console ports are connected, the Micro-USB connection takes precedence over the RJ-45 Console connection.

Micro-USB Driver

To use the Micro-USB console port, install the Aruba Micro-USB driver on the system that will manage the 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.

Power Supply

The 7024 controller is equipped with an integrated AC power supply of 580W. The integrated power supply supports 400W of PoE power and 180W of system power.

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.

This chapter describes how to install a 7024 controller using the different mounting options available. The 7024 controller ships with equipment needed to mount the controller in a standard two-post 19-inch Telco rack.



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.



Utilisez uniquement les câbles, cordons d'alimentation, alimentations c.a. et batteries inclus ou les câbles, cordons d'alimentation, alimentations c.a. et batteries spécifiés par Aruba. Le cordon d'alimentation ne doit pas être utilisé avec des équipements électriques autres que ceux spécifiés par Aruba.



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Precautions

- Ensure that the rack is correctly and securely installed to prevent it from falling or becoming unstable.
- Dangerous voltage above 240 VAC 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 antistatic 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 7024 controller, like other networking and computing devices, requires the following “electronic-friendly” environment:

- Reliable power
 - Verify that the electrical outlet is compatible with the 7024 controller power supply.

- Cool, non-condensing ventilation
 - For proper operation, the 7024 controller requires an environment with an ambient air temperature between 0° C and 40° C (32° F and 104° F). Humidity must be kept at non-condensing levels, between 10% and 90%.
 - 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 7024 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/Front

This option allows mounting the 7024 controller from the front in a standard two-post 19-inch Telco rack.



CAUTION

Each 7024 controller must have its own mounting equipment. Do not place other networking equipment directly on top of a mounted 7024 controller. Failure to do so can damage the controller.



ATTENTION

Chaque contrôleur 7024 doit disposer de son propre équipement de montage. Veillez à ne placer aucun autre équipement réseau directement sur un contrôleur 7024 installé. Dans le cas contraire, vous risqueriez d'endommager le périphérique.

Required Tools and Equipment

The following tools and equipment are required for installing a 7024 controller:

- Mounting brackets (x2); Do not use for table or shelf installation
- Screws for the mounting brackets (x8): M4 x 8 mm Phillips Flat Head Screws
- Screws for system rack mount (x4): M6 x 15 mm Phillips Pan Head Screws
- Suitable screwdrivers for all screw types (not included in the package)



NOTE

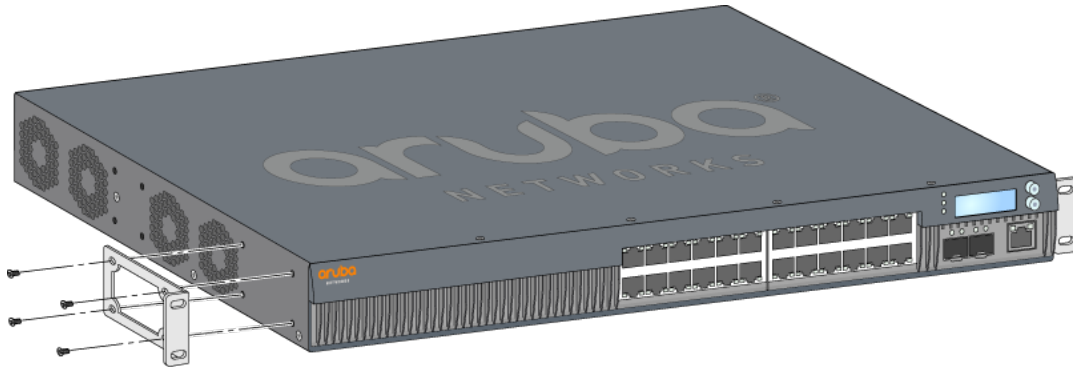
Some racks require screws that differ from those included with the 7024 controller. Ensure to have the correct screws before installing the controller.

Installation Steps

To install a 7024 controller from the front in a standard two-post 19-inch Telco rack:

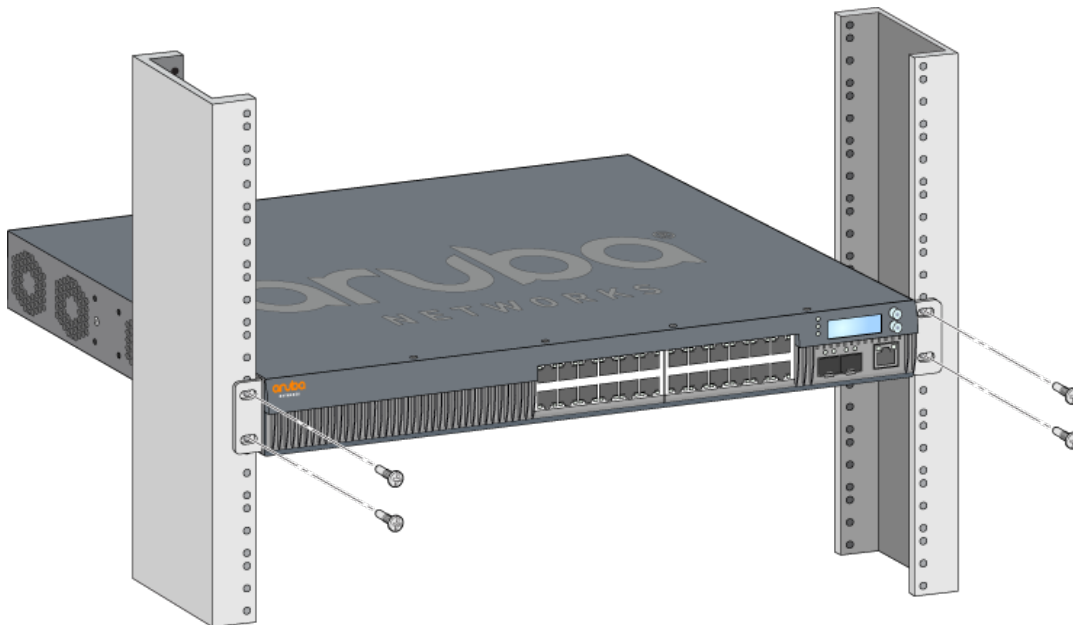
1. Place the mounting brackets over the mounting holes on either side of the controller towards the front (see [Figure 7](#)).

Figure 7 Rack Mounting Brackets



2. Secure the brackets to the controller using the eight screws for the mounting bracket (four per bracket) and a suitable screwdriver.
3. Mount the controller in the rack using the four screws for system rack mount (two per bracket) and a suitable screwdriver (see [Figure 8](#)).

Figure 8 Front-Rack Mount Installation



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.

Rack Mount Installation- Mid

An optional accessory kit (SPR-WL2-MNT, must be purchased separately) allows mounting the 7024 controller from the middle in a standard 19-inch Telco rack.



Each 7024 controller must have its own mounting equipment. Do not place other networking equipment directly on top of a mounted 7024 controller. Failure to do so can damage the controller.



Chaque contrôleur 7024 doit disposer de son propre équipement de montage. Veillez à ne placer aucun autre équipement réseau directement sur un contrôleur 7024 installé. Dans le cas contraire, vous risqueriez d'endommager le périphérique.

Required Tools and Equipment

The following tools and equipment are required for installing a 7024 controller from the middle of the device:

- Mid-mount brackets (x2) (included in the mounting accessory kit)
- Screws for the mounting brackets (x8): M4 x 8 mm Phillips Flat Head Screws
- Screws for system rack mount (x4): M6 x 15 mm Phillips Pan Head Screws
- Suitable screwdrivers for all screw types (not included in the package)



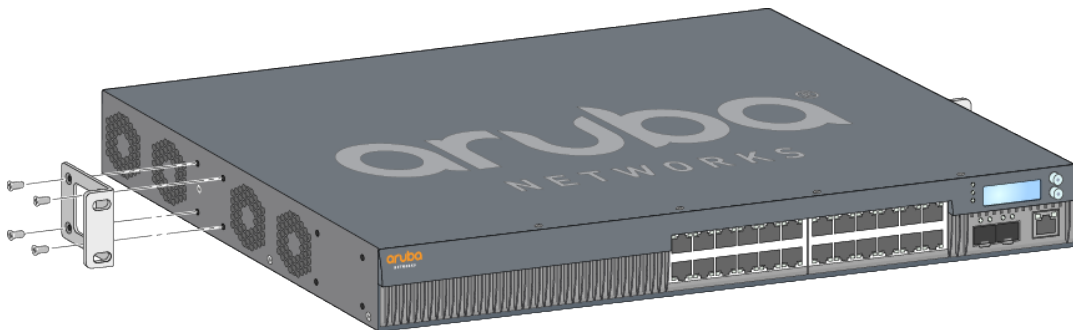
Some racks require screws that differ from those included with the 7024 controller. Ensure to have the correct screws before installing the 7024 controller.

Installation Steps

To install a 7024 controller from the middle in a standard two-point 19-inch rack system:

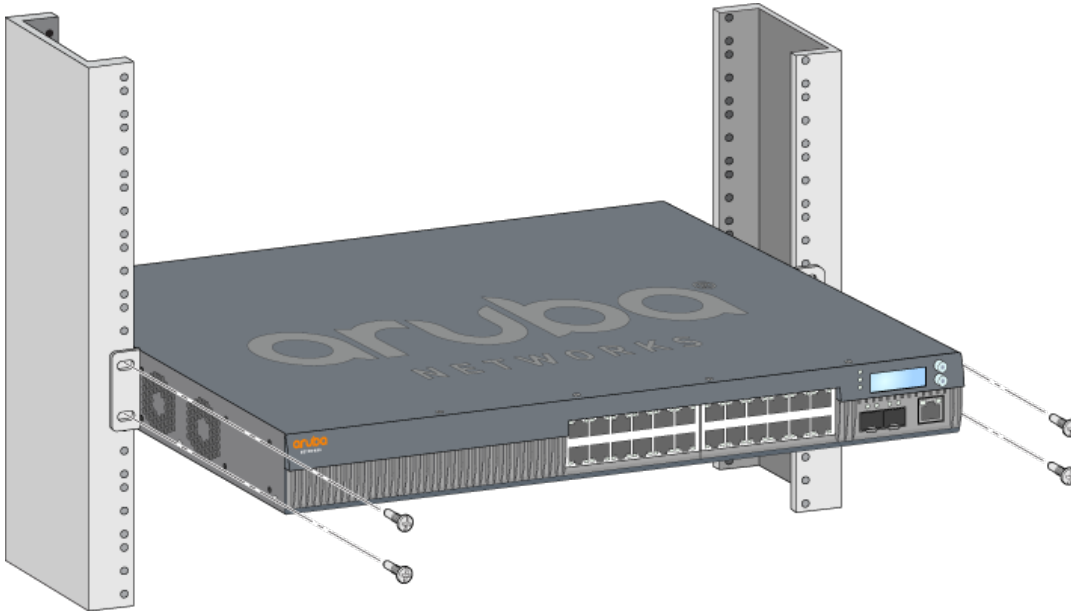
1. Place the mid-mount brackets over the mounting holes on either side of the controller in the middle (see [Figure 9](#)).

Figure 9 *Mid-Mount Brackets*



2. Secure the brackets to the controller using the eight screws for mounting bracket (four per bracket) and a suitable screwdriver.
3. Mount the controller in the rack using the four screws for system rack mount (two per bracket) and suitable screwdriver (see [Figure 10](#)).

Figure 10 *Mid-Mount Rack Installation*



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

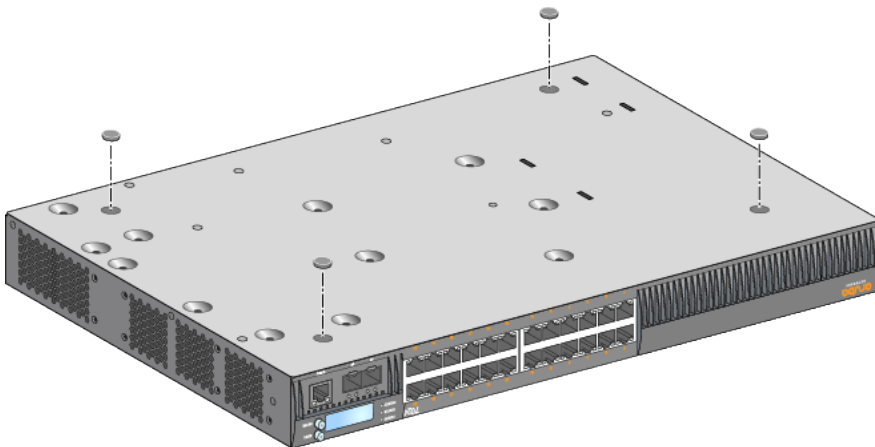
Required Tools and Equipment

- Rubber feet

Installation Steps

1. Attach the rubber feet to the bottom of the controller (see [Figure 11](#)).
2. Place the controller on the desired flat table or shelf.

Figure 11 *Attaching Rubber Feet*



Wall Mounting

An optional accessory kit (SPR-WL2-MNT, must be purchased separately) allows mounting the 7024 controller to a wall.

Required Tools and Equipment

The following tools and equipment are required for installing a 7024 controller on a wall:

- Wall-mount brackets (x2) (included in the mounting accessory kit)
- Screws for the wall mounting bracket (x8): M4 x 8 mm Phillips Flat Head Screws
- Wall anchors: Optional (not included in the package)
- Wall-mount screws (not included in the package, the type of screw depends on the installation surface)
- Suitable screwdrivers for all screw types (not included in the package)

Installation Steps

To install a 7024 controller on a wall:



Ensure that the Ethernet ports are facing down when installing the 7024 controller on a wall.

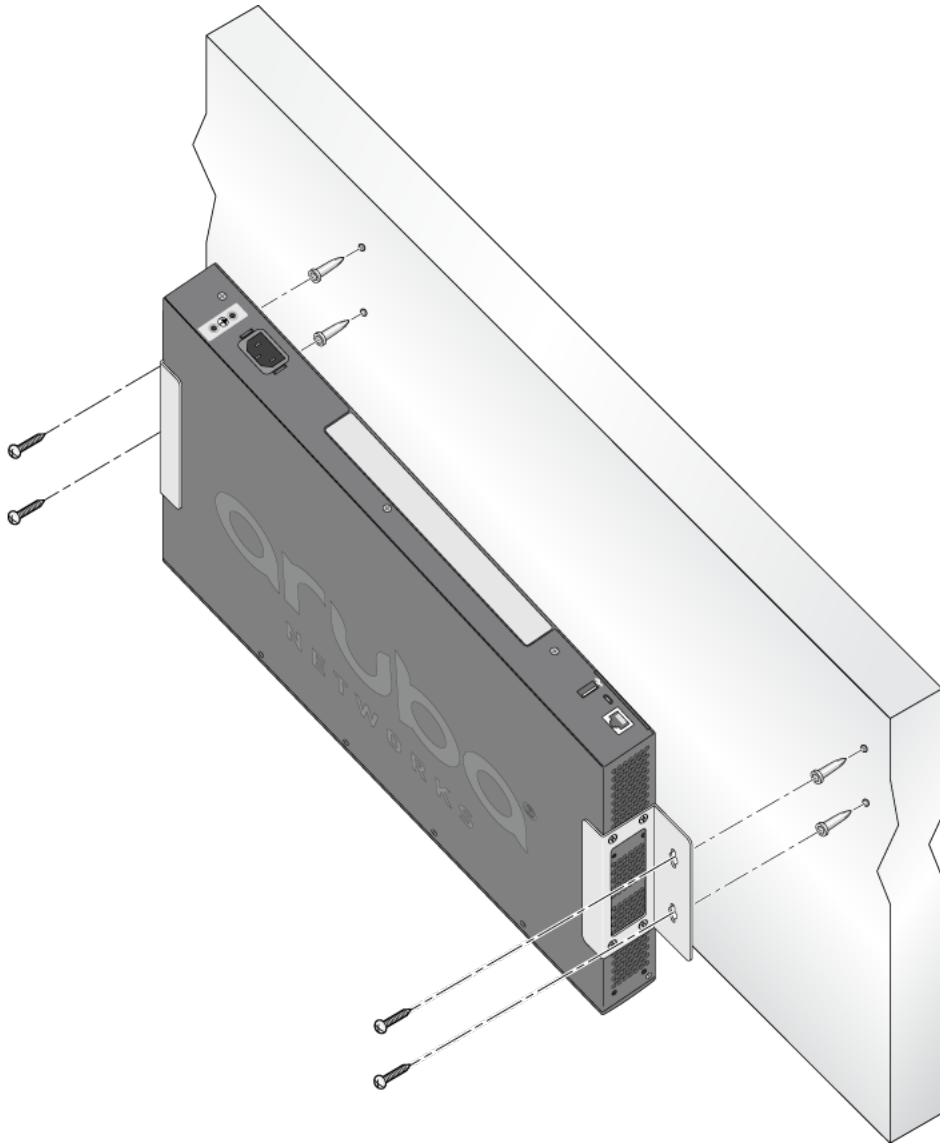
1. Fasten the wall-mount brackets over the mounting holes on the sides of the controller using the eight screws for the mounting brackets (four per bracket) and a suitable screwdriver (see [Figure 12](#)).

Figure 12 *Wall-Mount Brackets*



2. After choosing a mounting location, mark the points on the wall for the mounting holes.
3. Drill the holes and insert wall anchors if the installation requires them.
4. Align the holes of the mounting bracket with the holes drilled in the wall (see [Figure 13](#)).
5. Use appropriate screws to secure the controller.

Figure 13 *Wall-Mount Installation*



Connecting and Disconnecting the AC Power Cord

Once the controller is installed, it is ready to be powered on. The 7024 controller is not equipped with an On/Off switch. The controller will power on when the AC power cord is connected to the AC power connector and an AC power outlet.

Connecting the AC Power Cord

To connect the AC power cord to the 7024 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.
3. Lower the power cord retaining clip over the AC power cord.

The 7024 controller should now be receiving power.

Disconnecting the AC Power Cord

To disconnect the AC power cord from the 7024 controller:

1. Lift the power cord retaining clip off the AC power cord.
2. Pull the AC power cord from the AC connector.
3. The 7024 controller is now turned Off.

Installing an SFP/SFP+ Module

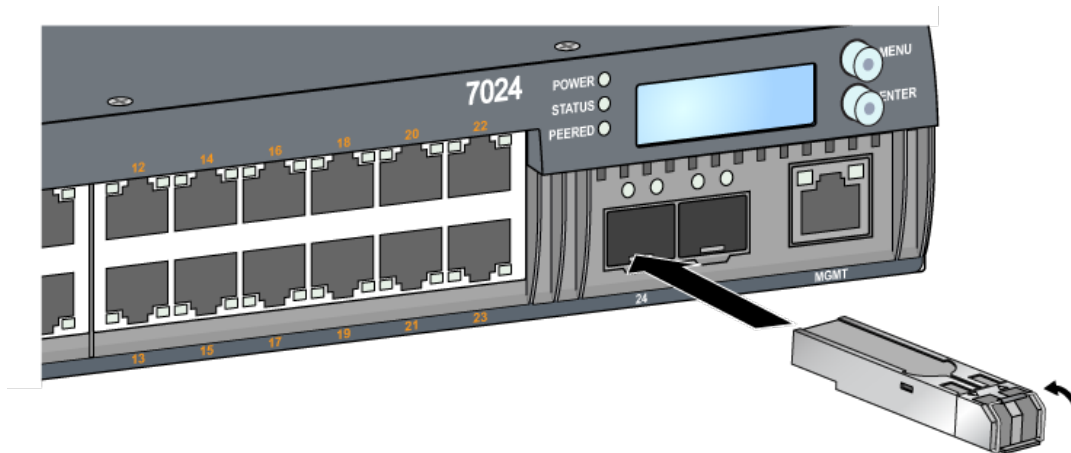


Use standard ESD precautions when installing or removing an SFP/SFP+ module.

To install an SFP/SFP+ module into the 7024 controller:

1. Slide the SFP/SFP+ module, top side facing upward, into a 10GBASE-X port until a connection is made and an audible click is heard.

Figure 14 *Installing an SFP/SFP+*



Removing an SFP/SFP+ Module

To remove an SFP/SFP+ module:

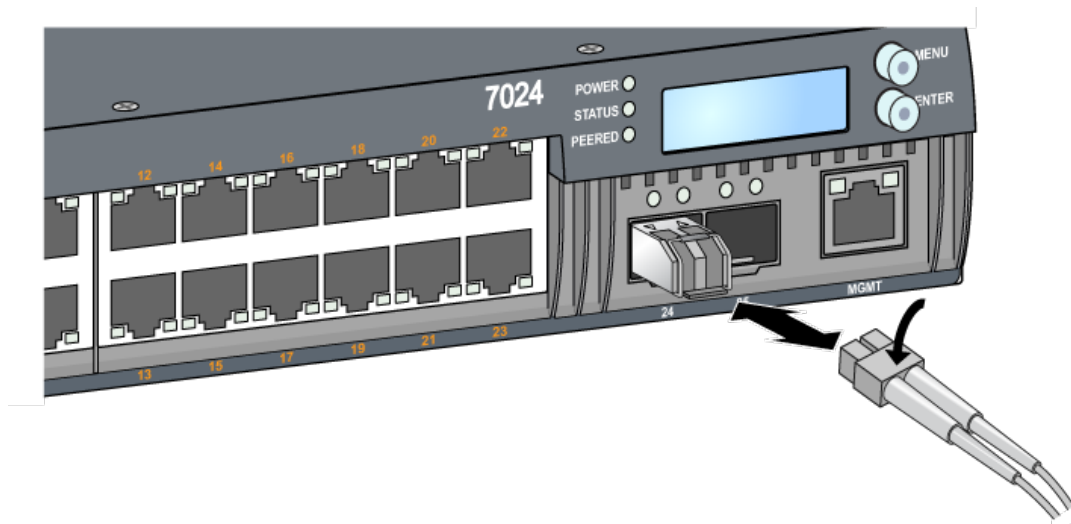
1. Open and release the latch on the SFP/SFP+ module.
2. Pull and remove the module from the port.

Connecting an LC Fiber Optic Cable

To connect an LC fiber optic cable into an SFP-SX or SFP-LX module:

1. Clean the fiber optic cable connector before inserting it into the SFP/SFP+ module.
2. Insert the fiber optic cable into the SFP/SFP+ module. Ensure that the latch on the cable faces the top of the SFP/SFP+ module (see [Figure 15](#)).
3. Slide the cable into place until a connection is made and an audible click is heard.

Figure 15 *Connecting an LC Fiber Optic Cable*



Disconnecting an LC Fiber Optic Cable

To disconnect an LC fiber optic cable from an SFP-SX or SFP-LX module, depress the transceiver handle to release the latch on the cable and simultaneously pull the cable out of the port.

7024 Specifications

Physical

- Device Dimensions (without mounting brackets) (HxWxD): 1.72" x 17.40" x 12.32" (4.37 cm x 44.2 cm x 31.3 cm)
- Device Weight: 11.303 lbs (5.127 kgs)

Power Supply Specifications

- 580 W Integrated Power Supply
 - AC Input Voltage: 115 VAC to 230 VAC
 - AC Input Current: 6.3 A
 - AC Input Frequency: 47 to 63 Hz

Operating Specifications

- Operating Temperature Range: 0 °C to 40 °C (32 °F to 104 °F)
- Operating Humidity Range: 10% to 90% (RH), non-condensing

Storage Specifications

- Storage Temperature Range: 0 °C to 50 °C (32 °F to 122 °F)
- Storage Humidity Range: 10% to 95% (RH), non-condensing

Safety and Regulatory Compliance

Aruba Networks, Inc. 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



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.



Les contrôleurs Aruba doivent être installés par un installateur professionnel. Cet installateur doit s'assurer que ces appareils sont correctement mis à la terre et que le circuit de mise à la terre est conforme aux codes électriques locaux et nationaux en vigueur.

**CLASS 1
LASER PRODUCT**



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



L'utilisation de commandes ou de réglages de performances ou de procédures qui ne sont pas spécifiées dans ce manuel risque d'entraîner une exposition à des rayonnements dangereux.

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: 2004+A1.

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



Although this controller has been tested up to 1 kV 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.



Le contrôleur a été testé jusqu'à 1 000 V conformément aux exigences en matière d'immunité de la Communauté européenne. Cependant, il est essentiel de prévoir une protection contre les surtensions dans l'installation électrique du bâtiment afin de protéger l'appareil contre les surtensions unidirectionnelles provenant du circuit électrique ou de la foudre. Pour se protéger contre ces surtensions dans une installation extérieure, tous les câbles exposés doivent être blindés et le blindage doit être mis à la terre aux deux extrémités.

Regulatory Model Name

The regulatory model name for the 7024 controller is ARCN7024.

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.

Japan VCCI

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

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 corrective actions.

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。

Europe



CAUTION

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.



ATTENTION

Produit de classe A. Dans un environnement domestique, ce produit peut provoquer des interférences radio, auquel cas l'utilisateur doit prendre un certain nombre de mesures.

This product complies with EN55022 Class A and EN55024 standards.

South Korea

이 기기는 업무용(A급) 전자파 적합기기로서 판매자 또는 사용자는 이 점을 주의하시기 바라며, 가정외의 지역에서 사용하는 것을 목적으로 합니다.

EU Regulatory Conformance

CE **①** This product is CE marked according to the provisions of the EMC Directive (2004/108/EC) - CE. hereby declares that 7024 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 in the EU community.

Battery Statements



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.



La batterie fournie avec ce produit peut contenir du perchlorate. Des précautions de manipulation peuvent s'appliquer dans l'État de Californie et dans d'autres états/pays. Consultez la page www.dtsc.ca.gov/hazardouswaste/perchlorate pour plus d'informations.



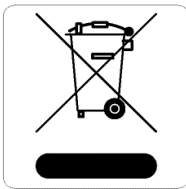
Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.



Risque d'explosion si la batterie est remplacée par une batterie de type incorrect. Mettez les batteries au rebut conformément aux 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 2012/19/EU on Waste of Electrical and Electronic Equipment (WEEE).

European Union RoHS

RoHS Aruba products also comply with the EU Restriction of Hazardous Substances Directive 2011/65/EU (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.

India RoHS

This product complies with RoHS requirements as prescribed by E-Waste (Management & Handling) Rules, governed by the Ministry of Environment & Forests, Government of India.

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	○	○	○	○	○
机械组件 Mechanical Subassembly	X	○	○	○	○	○
电源适配器 Power Adaptor	X	○	○	○	○	○
○: 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, 供应链的电子产品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.						



Part Number: 0510304-01

