


Dell PowerConnect W-7200 Series Controller Installation Guide



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This document describes the hardware features of the Dell PowerConnect W-7200 Series 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, “Dell PowerConnect W-7200 Controller” on page 7](#) provides a detailed hardware overview of the W-7200 controller and each of its components.
- [Chapter 2, “Installation” on page 21](#) describes how to install the W-7200 in a number of ways and how to install each its components.
- [Chapter 3, “Specifications, Safety, and Compliance” on page 29](#) lists the W-7200’s technical specifications and safety and regulatory compliance information.

Related Documentation

The following documents are referred to in this guide and are considered components of the complete documentation set needed for successful installation and management of a Dell W-7200 controller:

- *Dell PowerConnect W-Series ArubaOS 6.2 User Guide*
- *Dell PowerConnect W-Series ArubaOS 6.2 Command Line Interface Reference Guide*
- *Dell PowerConnect W-Series ArubaOS 6.2 Quick Start Guide*

The latest documentation and this document translated into other languages can be found at dell.com/support/manuals.

Contacting Support

Table 1 *Support Information*

Web Site Support	
Main Site	dell.com
Support Site	dell.com/support
Documentation Site	dell.com/support/manuals

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The Dell PowerConnect W-7200 series of controllers consists of three enterprise-class, wireless LAN controllers. These controllers connect, control, and intelligently integrate wireless Access Points (APs) and Air Monitors (AMs) into a wired LAN system.

Models

The Dell PowerConnect W-7200 series controller includes three models that provide varying levels of functionality.

Table 2 *Dell PowerConnect W-7200 Controller*

Model	Number of APs Supported
W-7210	512
W-7220	1024
W-7240	2048

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 3 *Package Contents*

Item	Quantity
Dell PowerConnect W-7200 Series Controller	1
Power Supply Unit - Installed	1
Fan Tray - Installed	1
Expansion Slot Cover - Installed	1
Blank Panel over unpopulated PSU Intake - Installed	1
Rack Mounting Brackets	2
M6 x 15mm Rack Mounting Screws	4
M4 x 6mm Rack Mount Bracket Screws	8
USB Console Cable	1
Power Cable	1
Dell PowerConnect W-7200 Series Installation Guide (Printed)	1
End User License Agreement (Printed)	1
Dell Document Pointer (Printed)	1



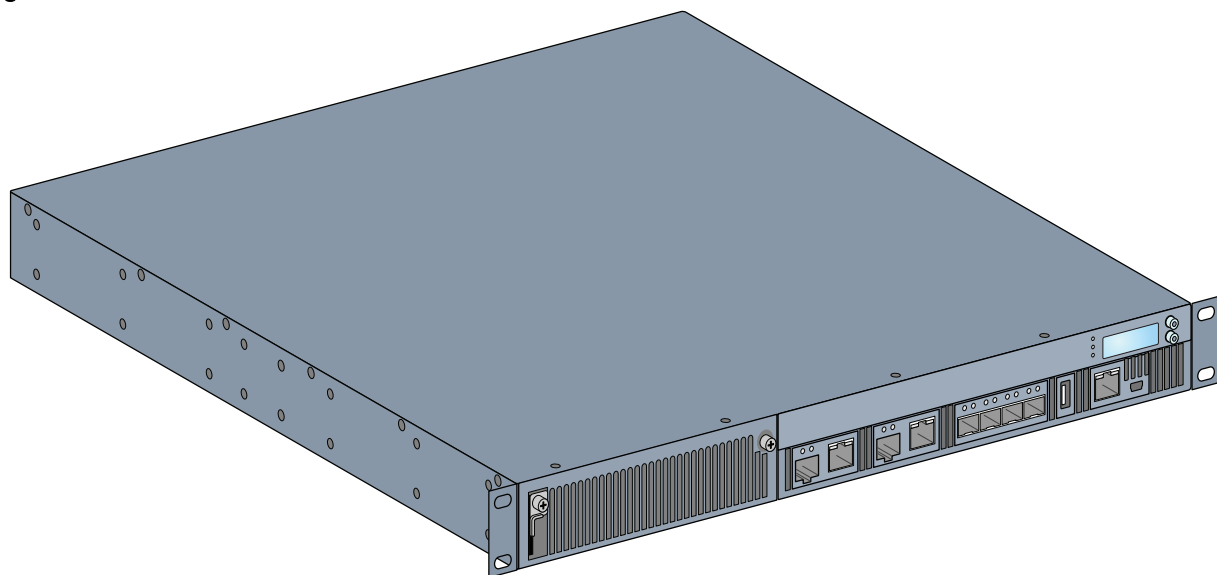
NOTE: Optional accessories are available for use with the Dell PowerConnect W-7200 Series and are sold separately. Contact your Dell sales representative for details and assistance.

Front Panel

The front panel of the W-7200 mobility controller contains the following components:

- Four 10GBase-X (SFP+) ports
- Two Dual-Media Ports
- LINK/ACT and Status LEDs
- Management/Status LED
- LCD Panel and Navigation Buttons
- Console Connections - RJ-45 and Mini-USB
- Expansion Slot (reserved for future use)

Figure 1 *Front Panel of the W-7200*



Dual-Media Ports

The W-7200 is equipped with 2 sets of dual-media ports (ports 0 and 1). 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.

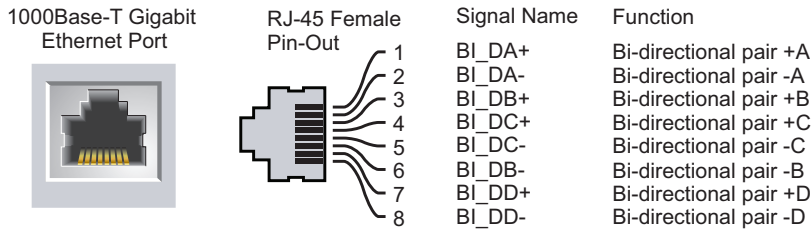


NOTE: Dell tests and supports optics offered through Dell W-Series products within Dell controller systems. Third party optics are not tested or supported; therefore, Dell does not guarantee proper functionality of third party optics when used in a Dell controller.

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

The W-7200 controller is equipped with two 10/100/1000Base-T copper 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 2](#) 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 2 10/100/1000Base-T Management Port Pin Out



1000Base-X (SFP) Ports

The W-7200 controller is equipped with two 1000Base-X combination ports for fiber connectivity only and are intended for use with Dell SFPs (mini-GBICs).



NOTE: Dell tests and supports optics offered through Dell W-Series products within Dell controller systems. Third party optics are not tested or supported; therefore, Dell does not guarantee proper functionality of third party optics when used in a Dell controller.

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 information displayed by these LEDs can be changed via 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 described in [Table 4](#) and [Table 5](#).

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
Status	Port status	Administrative	Green (Solid)	Port Enabled
			Off	Port Administratively Disabled
		Duplex	Green (Solid)	Full-duplex
			Off	Half-duplex
		Speed	Green (Solid)	1 Gbps
			Off	Speed mismatch

10GBase-X (SFP+) Ports

The W-7200 is equipped with 4 10GBase-X (SFP+) ports. These port are labeled as 2, 3, 4, and 5. These ports are intended for use with Dell SFPs. SFPs are 10Gb hot-swappable, optical transceivers, which convert serial electrical signals to external serial optical or electrical signals. The ports support dual speed (1GbE or 10GbE) operation.



NOTE: Dell tests and supports optics offered through Dell W-Series products within Dell controller systems. Third party optics are not tested or supported; therefore, Dell does not guarantee proper functionality of third party optics when used in a Dell controller.

10GBase-X Port LEDs

Each 10GBase-X port 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 information displayed by these LEDs can be changed via 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 described in [Table 6](#).

Table 6 10GBase-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 6 10GBase-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	Half-duplex
		Speed	Green (Solid)	10 Gbps
			Off	Speed mismatch

Management/Status LED Indicators

In addition to the LEDs on each individual port, there are three additional LEDs on the front panel that provide overall status of the device. These LEDs provide basic monitoring of the overall status of the W-7200 controller.

Table 7 Management/Status LEDs

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

LCD Panel

The W-7200 controller is equipped with an LCD panel that displays a variety of information about the controller's status and provides a menu that allows for 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.

Figure 3 LCD Panel

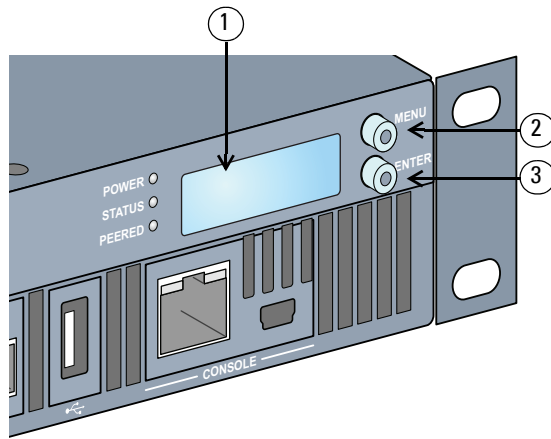


Table 8 LCD Panel Components

Callout	Component	Description
1	LCD Screen	Used to configure LCD behavior and other basic operations
2	Menu Button	Used to select the LCD screen menu
3	Enter Button	Used to execute actions on the LCD Screen

The LCD panel is operated using the two navigation buttons to the left 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.

The LCD has four modes:

- Boot: Displays the boot up status.
- LED Mode: Displays the mode that the STATUS LED is in.
- Status: Displays the status of different components of the W-7200 controller, including Power Supplies and ArubaOS version.
- Maintenance: Allows you to execute some basic operations of the W-7200 controller such as uploading an image or rebooting the system.

Table 9 LCD Panel Mode: Boot

Function/Menu Options	Displays
Displays boot status	"Booting Dell PowerConnect W-ArubaOS..."

The LED mode menu allows you to choose what information is communicated by the LEDs on each port. Refer to [Table 6 on page 10](#) for descriptions of the LED behavior of each mode.

Table 10 LCD Panel Mode: LED Mode

Function/Menu Options	Displays
Administrative	LED MODE: ADM - displays whether the port is administratively enabled or disabled.
Duplex	LED MODE: DPX - displays the duplex mode of the port.

Table 10 LCD Panel Mode: LED Mode

Function/Menu Options	Displays
Speed	LED MODE: SPD - displays the speed of the port.
Exit Idle Mode	EXIT IDLE MENU

Table 11 LCD Panel Mode: Status

Function/Menu Options	Displays
ArubaOS Version	ArubaOS X.X.X.X
PSU Status	Displays status of the power supply unit. PSU 0: [OK FAILED MISSING] PSU 1: [OK FAILED MISSING]
Fan Tray	Displays fan tray status. FAN STATUS: [OK ERROR MISSING] FAN TEMP: [OK HIGH SHUTDOWN]
Exit Status Menu	EXIT STATUS

Table 12 LCD Panel Mode: Maintenance

Function/Menu Options	Displays
Upgrade Image	Upgrade the software image on the selected partition from a predefined location on the attached USB flash device. Partition [0 1] Upgrade Image [no yes]
Upload Config	Uploads the controller's current configuration to a predefined location on the attached USB flash device. Upload Config [no yes]
Erase Config	Allows you to erase the current configuration. Erase Config [no yes]
Factory Default	Allows you to return the controller to the factory default settings. Factory Default [no yes]
Media Eject	Completes the reading or writing of the attached USB device. Media Eject [no yes]
System Reboot	Allows you to reboot the controller. Reboot [no yes]
System Halt	Allows you to halt the controller. Halt [no yes]
Exit Maintenance Menu	EXIT MAINTENANCE

Disabling the LCD Screen

By default, the LCD screen is enabled. However, if your W-7200 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 screen and display the slot, role, device name, and any alarms.

Additionally, it is possible to only disable the maintenance menu. This allows you to change the LED behavior and view the device status but prevents 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
```

Mini USB Console Connector

The W-7200 controller is equipped with one Mini USB (mini type B) connector that provides console access for direct local access. If you are connected using the Mini USB connector and the RJ-45 Console Port, the Mini USB connection will take priority.

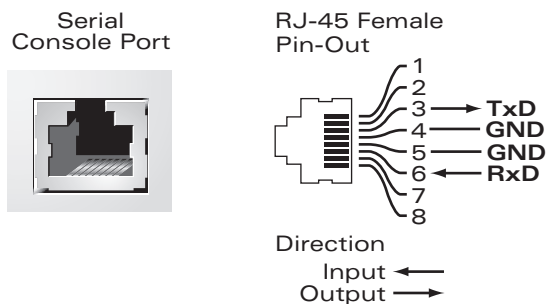
Mini USB Driver

To use the Mini USB console port, you must install the Dell USB console driver on the computer that will manage your W-7200 controller. Drivers are available for download at download.dell-pcw.com.

Console Port

A serial console port is provided for connection to a terminal, allowing for direct local management. The port's RJ-45 female connector accepts an RS-232 serial cable with a male connector.

Figure 4 Serial Console Port Pin-Out



Communication settings for the serial console port are indicated in [Table 13](#).

Table 13 Console Terminal Settings

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

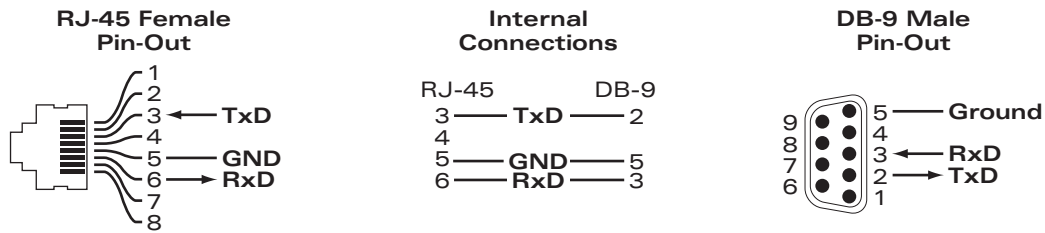


CAUTION: Do not connect an Access Point (AP) to the serial console port. The serial console port is compatible with only RS-232 devices. Non-RS-232 devices, such as APs, are not supported.

Serial Console Port Adaptor

A modular adaptor can be used to convert the RJ-45 (female) connector to a DB9 (male) connector. Refer to [Figure 5](#) for complete details.

Figure 5 *RJ-45 (female) to DB9 (male) Modular Adaptor Conversion*



USB Interface

The W-7200 controller is equipped with one USB 2.0 interface. 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 11](#).

Expansion Slot

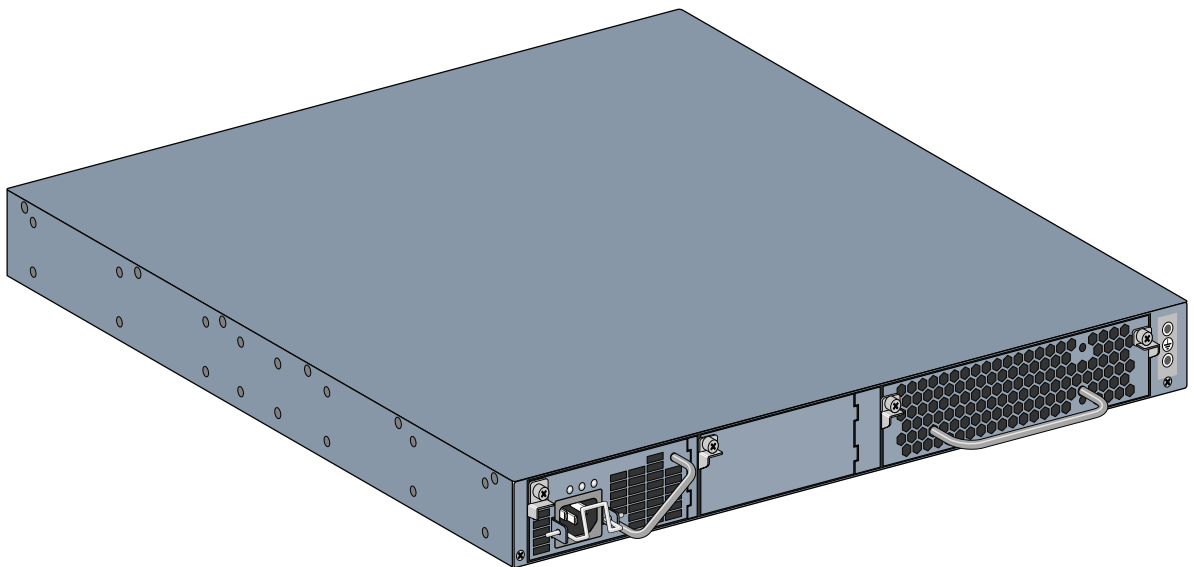
The expansion slot is reserved for future use.

Rear Panel

The rear panel of the W-7200 controller consists of the following components:

- Two power supply slots
- One fan tray slot
- Grounding point

Figure 6 *Rear Panel*



Fan Tray



CAUTION: The W-7200 controller is equipped with a field-replaceable, hot-swappable fan tray. Each fan tray features four individual fans that pull air through the chassis from the front through to the rear. Each fan tray can tolerate the failure of a single fan while maintaining a safe operating temperature for the controller



CAUTION: The W-7200 controller is not compatible with fan trays from other Dell hardware platforms.

Hot Swapping

Hot swapping allows you to replace a failed fan tray, making it unnecessary to shut down the W-7200 controller during the replacement procedure.

Figure 7 Fan Tray

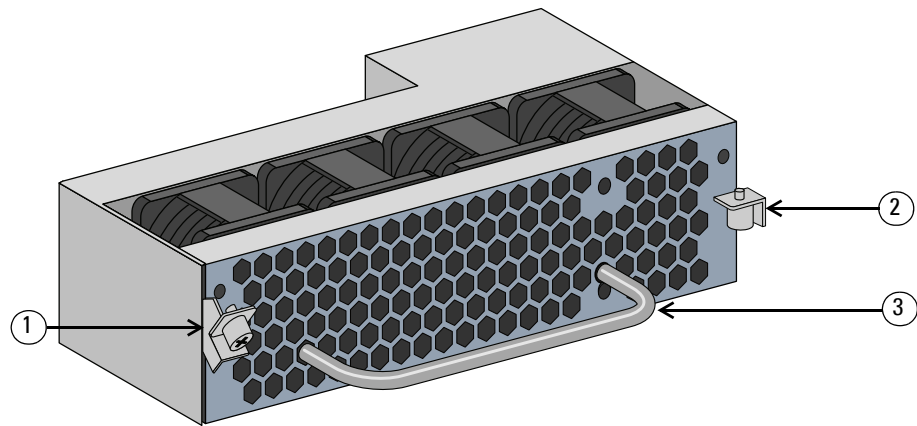
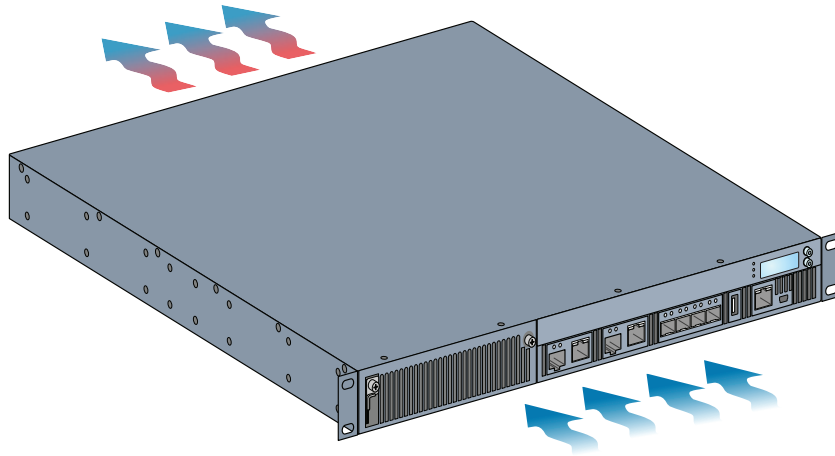


Table 14 Fan Tray Components

Callout	Component	Description
1	Left Latch	Used to secure the left side of the fan tray to the chassis.
2	Right Latch	Used to secure the right side of the fan tray to the chassis.
3	Handle	Used to insert and remove the fan tray from the chassis.

Figure 8 shows the airflow pattern for the W-7200 controller. The blue arrows show cool air being pulled into the device and the red arrows show warm air being forced out by the fan tray module. When installing your W-7200 controller, ensure that you leave sufficient space around the device for proper airflow.

Figure 8 Air Flow Pattern



Power Supply



CAUTION: Never insert or remove a power supply while the power cord is connected. Verify that cord has been disconnected from the power supply before installation or removal.

The W-7200 series controller's Power Supply adapts electrical power for use with the W-7200. The chassis has two slots that can hold individual power supplies to support load sharing, redundancy, and fault tolerance. The W-7200 controller comes equipped with a single 350W AC power supply.

The W-7200 controller is shipped with one hot-swappable, field-replaceable, AC power supply and one blank face plate. The included power supply is installed in the slot PSU 0, while slot PSU 1 has a blank face plate covering the opening. The controller can operate with one or two active power supplies, depending on the demands of your configuration.

Load Sharing

Load sharing occurs when more than one power supply of the same rating is installed in the W-7200 controller and turned on. Load sharing divides the total power load of the controller among all available power supplies. Since the power supplies work together, the effective power capacity of the controller is increased with each additional power supply.

Redundancy

With power redundancy, the W-7200 controller can continue normal operation even when a power supply fails or is turned off. When multiple power supplies are installed, if one becomes unavailable (fails, or is turned off or removed) the remaining power supplies will attempt to provide full power for the device. If the device's total power load does not exceed the combined rated output of the remaining, operational power supplies, the controller will continue to operate.

Hot Swapping

Hot swapping allows you to replace one failed power supply while the others provide full power. This makes it unnecessary to shut down the W-7200 controller during the replacement procedure.

Hot swapping is supported only when power redundancy is in effect. This requires that after the target power supply is removed, the device's total power load does not exceed the combined rated output of the remaining power supplies

Modules

The 350W power supply is an autosensing, load-sharing, redundant power supply module that supports an input voltage of 100 VAC to 240 VAC. Each power supply has a country-specific power cord for connection to an AC power outlet.

Figure 9 Power Supply (AC Power Supply Shown)

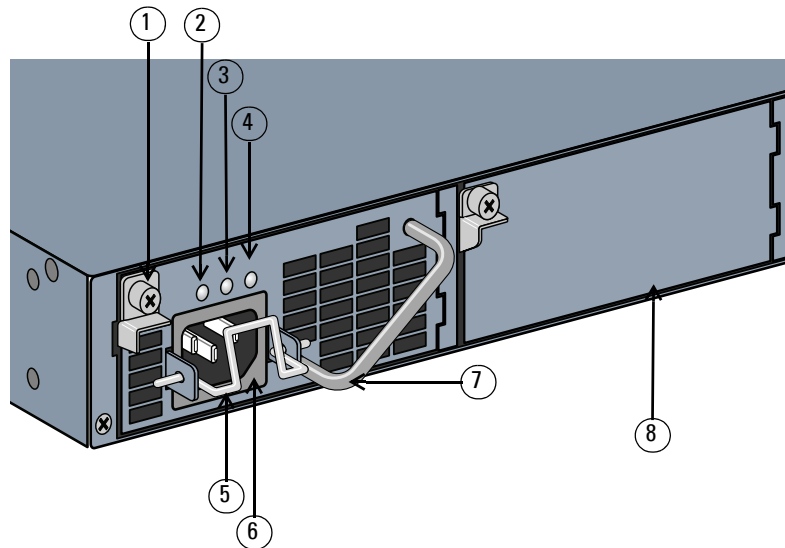


Table 15 Power Supply Components

Callout	Component	Description
1	Latch	Used to secure the power supply to the chassis.
2	AC LED	AC status LED.
3	DC LED	DC status LED.
4	TEMP LED	Power supply temperature LED.
5	Retaining Clip	Secures the power cord to the power supply.
6	AC Power Cable Socket	Attach power cord here.
7	Handle	Used to insert and remove the power supply from the chassis.
8	Power Supply Blanking Plate	Covers the extra power supply slot. Do not operate your W-7200 controller without this blanking plate or a power supply in either slot.

LEDs

Each power supply is equipped with three LEDs to help monitor the power supply module's status.

Table 16 Power Supply Module LEDs

LED	Description	Indicator	Status
AC	AC Status	Green (Solid)	Operating Normally AC voltage is OK.
		Red (Solid)	Power Supply Failure

Table 16 *Power Supply Module LEDs*

LED	Description	Indicator	Status
DC	DC Status	Green (Solid)	Operating Normally
		Red (Solid)	Power Supply Failure
TEMP	Power Supply Temperature	Green (Solid)	Operating Normally
		Red (Solid)	Power Supply Failure

This page is intentionally left blank.



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

This chapter describes how to install a Dell PowerConnect W-7200 controller using the many mounting options available. The W-7200 controller ships with an accessory kit that includes the equipment needed to install the controller in standard, two-point 19-inch telco rack. Additional mounting options are sold separately.

- “Precautions” on page 21
- “Selecting a Location” on page 22
- “Two-Point Rack Mounting” on page 22
- “Table or Shelf Installation” on page 24
- “Connecting the AC Power Cord” on page 24
- “Installing and Removing a Fan Tray” on page 24
- “Installing and Removing a Power Supply” on page 26



CAUTION: Please only use included or Dell 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 Dell.



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 from falling or becoming unstable.
- Dangerous voltage in excess of 240VAC is always present while the Dell Power Supply Module is plugged into an electrical outlet. Remove all rings, jewelry, and other potentially conductive material before working with this product.
- Never insert foreign objects into the chassis, the power supply, or any other component, even when the power supplies have been turned off, unplugged, or removed.
- Main power is fully disconnected from the W-7200 controller by unplugging all installed power supplies' power cords from their outlets. For safety, verify the power outlets and plugs are in easy reach of the operator.
- Do not handle electrical cables which are not insulated. This includes any network cables.
- To minimize electrical hazard, keep water and other fluids away from the product.
- Comply with electrical grounding standards during all phases of installation and operation of the product. Do not allow the W-7200 chassis, network ports, power supplies, 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.
- Installation or removal of the chassis or any module must be performed in a static-free environment. The 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/store this product near strong electro-magnetic, electrostatic, magnetic or radioactive fields.
- Do not disassemble the chassis or any module.

Selecting a Location

The W-7200 controller, like other network and computing devices, requires an “electronics friendly” environment.

- Reliable power. Verify that your electrical outlet is compatible with the W-7200 power supplies.
- Cool, non-condensing ventilation

For proper operation, the W-7200 requires an environment with an ambient air temperature between 0 and 40 °C (32 to 104 °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 for the vents on the left, right, front, and rear of the chassis.

Leave additional space in front of the chassis to access power cords, network cables, and indicator LEDs.

- Limited electromagnetic interference

For best operation, keep the W-7200 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.

Two-Point Rack Mounting

The included two-point rack mounting kit provides the necessary hardware to securely mount a W-7200 controller in standard 19” telco rack.



CAUTION: Each W-7200 controller should have its own mounting equipment. Do not place other networking equipment directly on top a mounted W-7200 controller. Failure to do so can result in damage to the device.

Required Tools and Equipment

The following tools and equipment are required for installation of a W-7200 controller:

- Rack mount bracket (x2, not used for tabletop installation)
- M4 x 6mm Phillips flat head screws (8x, included with rack mount brackets)
- M6 x 15mm Phillips flat head screws (4x, 19-inch (48.26 cm) rack system mount screws)
- Suitable screwdrivers for both screw types



NOTE: Some racks require screws that differ from those included with the W-7200 controller. Confirm that you have the correct screws before installing your W-7200 controller.

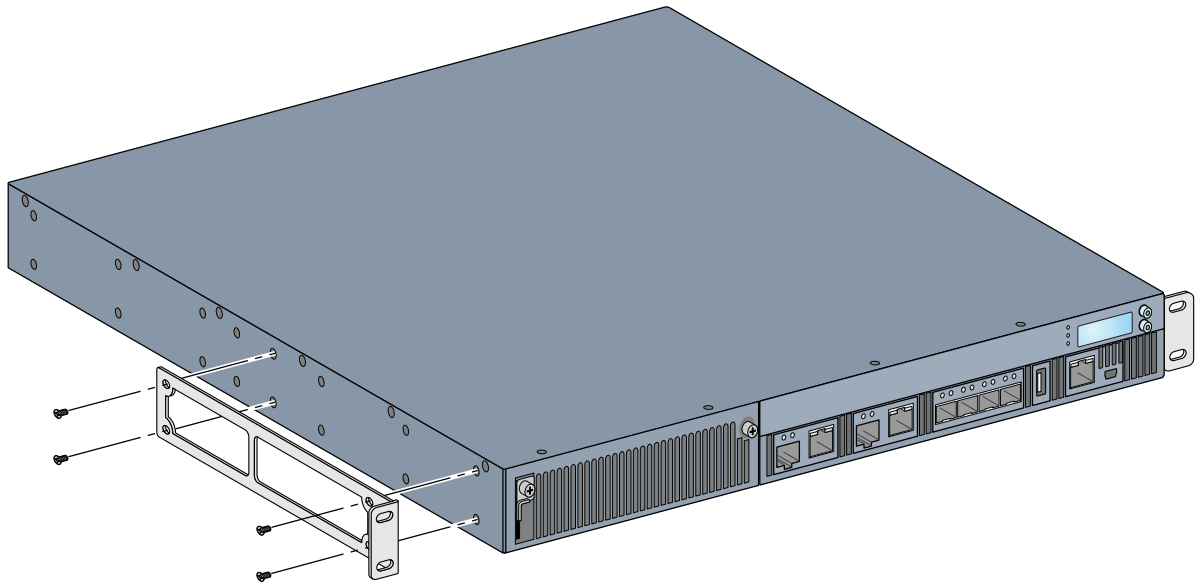
Installation Steps

To install a W-7200 controller into a two-point 19-inch (48.26 cm) rack system:

1. Place a rack mount bracket over the mounting holes on one side of the controller (see [Figure 10](#)).
2. Secure the bracket to the controller using four M4 x 6mm phillips flat head screws and a suitable screwdriver.

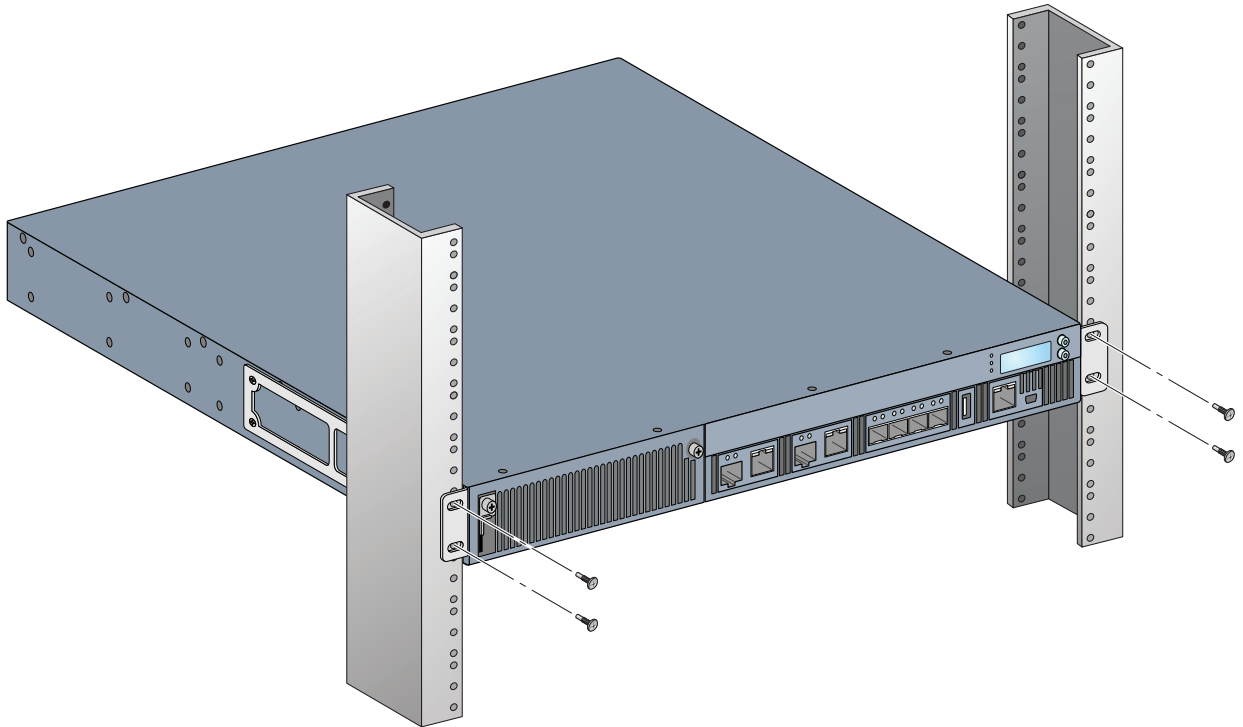
3. Repeat these steps on the opposite side of the controller.

Figure 10 Rack Mount Brackets



4. Mount the controller within your organization's rack system using four (two per bracket) M6 x 15mm phillips flat head screws and suitable screwdriver (see [Figure 11](#)).

Figure 11 Rack Mount Installation



5. Leave a minimum of four inches (10cm) of space on the left and right side of the unit for proper air flow and ventilation. See [Figure 8 on page 17](#) for more information about the W-7200's airflow requirements.

6. Leave additional space in front and back of the unit to access power cords, network cables, the LCD panel, and LED status indicators

Table or Shelf Installation

Required Tools and Equipment

- Rubber Feet (included)

Installation Steps

1. Attach the included rubber feet to the bottom of the controller.
2. Place your controller in the location you have chosen.
3. Connect the AC power cord to the rear of the unit.
4. Plug the opposite end of the power cord into an electrical outlet to power the controller.

Connecting the AC Power Cord

Once you have installed the W-7200 controller, you are ready to power on the device. The W-7200 controller is not equipped with an On/Off switch. The device will turn on when the AC power cord has been connected to the power supply module and an AC power outlet.

To connect the AC power cord:

1. Ensure that the power supply module is correctly installed in the W-7200 controller.
2. Lift the power cord retaining clip so it is not blocking the AC power connector.
3. Insert the coupler end of the AC power cord into the AC power connector on the power supply module.
4. Lower the power cord retaining clip over the AC power cord.

The W-7200 controller should now be receiving power. Since the W-7200 controller does not have an On/Off switch, you must use the power cord to turn the device on or off. To turn the device off:

1. Lift the power cord retaining clip off the AC power cord.
2. Pull the AC power cord from the power supply module.

Installing and Removing a Fan Tray



NOTE: Use standard ESD precautions when installing or removing a fan tray module.

The fan tray is field-replaceable and hot-swappable. Hot-swapping allows you to replace the fan tray without having to power down the W-7200 controller.

1. Remove the old fan tray.
 - a. Using a Phillips Head screwdriver, turn the hinged captive screws counter-clockwise until loose (they cannot be removed completely).
 - b. Firmly grasp both of the hinged captive screws and pull the spring loaded hinge down until you are sure the hinges are disengaged. Use the fan tray handle to pull the fan out.

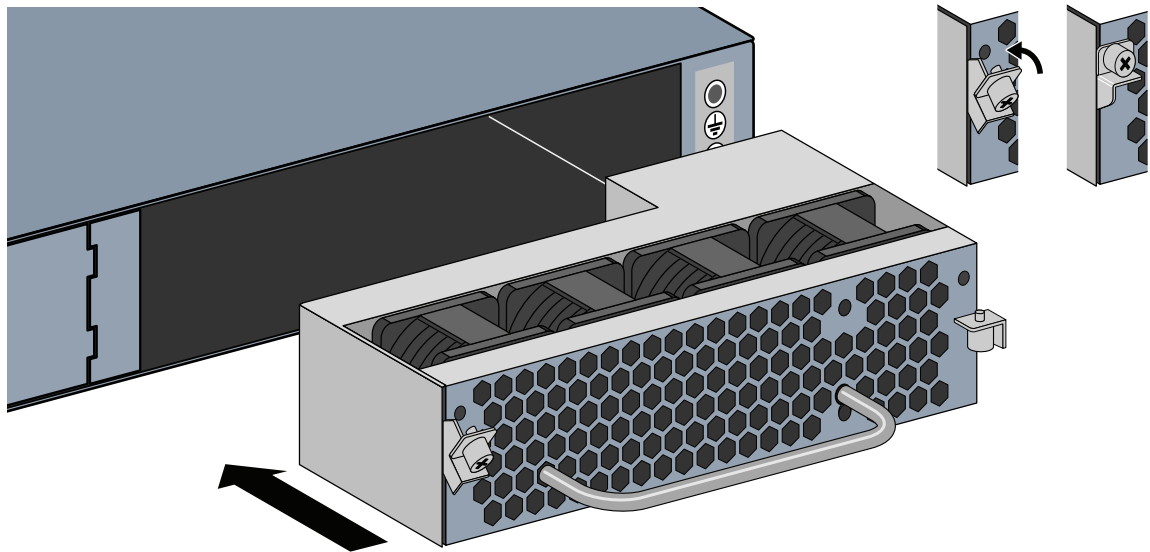
2. Align the new fan tray module with opening in the controller, as shown in [Figure 12](#).



CAUTION: Ensure that fan tray module is correctly aligned with the opening on the W-7200. Failure to do so can result in damage to the fan tray module.

3. Pull down the hinged captive screws on the new fan tray module and align its tabs with the slots on either side of the opening.
4. Slide the fan tray module into the controller.
5. Lift both the hinged captive screws into the lock position then secure the fan tray module by tightening the captive screws.

Figure 12 Installing a Fan Tray



Installing and Removing a Power Supply



CAUTION: Never insert or remove a power supply while the power cord is connected. Verify that cord has been disconnected from the power supply before installation or removal.



NOTE: Use standard ESD precautions when installing or removing a power supply module.

The power supply modules are hot-swappable. Hot swapping allows you to replace a failed power supply without powering down the W-7200 controller during the replacement process. This makes it unnecessary to shut down the W-7200 controller during the replacement procedure.

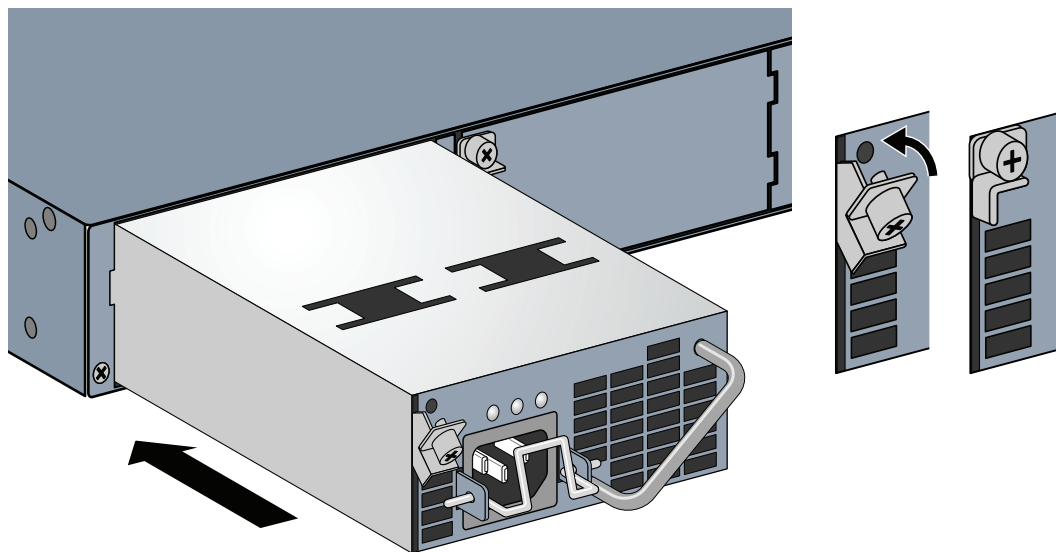
Installing a Power Supply



NOTE: If you are adding an additional power supply module, remove the pre-installed power supply module blanking plate and follow the instructions below. If you are replacing a failed power supply, see [“Removing a Power Supply”](#) on page 27 before you continue.

1. With a Phillips Head screwdriver, turn the hinged captive screw counter-clockwise until it is loose (they cannot be completely removed).
2. Firmly grasp both of the hinged captive screws and pull the spring loaded hinge down until you are sure the hinges are disengaged.
3. Grasp the power supply blanking plate by the hinged captive screw and slide the plate out.
4. Align the new power supply module with opening in the controller, as shown in [Figure 13](#).
5. Pull down the hinged captive screw on the power supply module and align its tab with the slot on the left side of the opening.
6. Slide the power supply module into the controller.
7. Lift the hinged captive screw and secure the power supply module by tightening the screw with a Phillips Head screwdriver. Take care not to over-tighten the screw.

Figure 13 Installing a Power Supply



8. Insert the power cord and secure it by lowering the power cord retaining clip over the power cord.

Removing a Power Supply

To remove a power supply from your W-7200 controller:

1. Lift the power cord retaining clip from the power cord.
2. Remove the power cable connected to the power supply module.
3. Using a Phillips head screwdriver, loosen the hinged captive screw on the front of the power supply module.
4. Lower the hinged captive screw as far as it can go.
5. Using the power supply module's handle, pull the module out.
6. If you are not replacing the removed power supply module, install a blanking plate that was included with your W-7200 controller by following the installation procedure under [“Installing a Power Supply” on page 26](#).

Installing an SFP

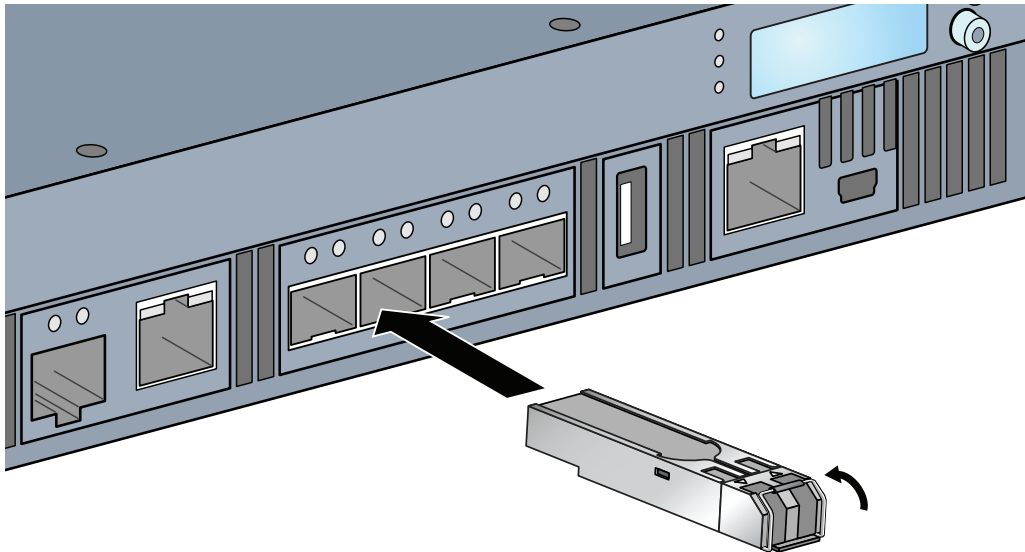


NOTE: Use standard ESD precautions when installing or removing an SFP.

To install an SFP module into the W-7200 controller:

1. Slide the SFP module, top side facing upward, into a 1000Base-X port until a connection is made and an audible click is heard. See [Figure 14](#) for more information.

Figure 14 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-SX or SFP-LX module:

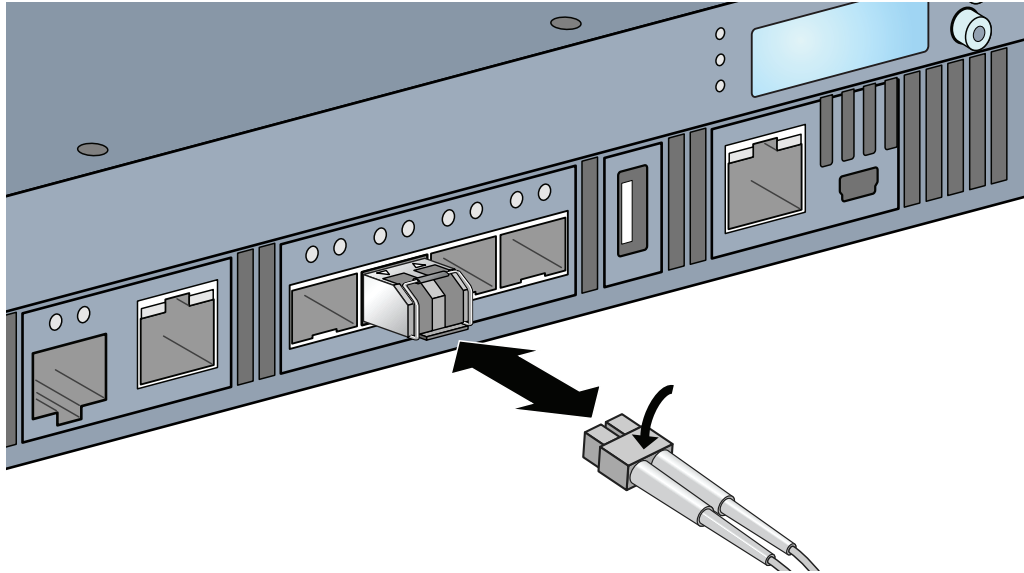
1. Clean the fiber optic cable connector before inserting it into the SFP module.

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-SX or SFP-LX module:

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

Figure 15 Connecting an LC Fiber Optic Cable



W-7200 Controller Specifications

Physical

- Device Dimensions (without mounting brackets) (HxWxD)
 - All Models: 1.75" x 17.5" x 17.5"
 - All Models: 4.4 cm x 44.5 cm x 44.5 cm
- Device Weight (with one AC power supply installed)
 - All Models: 16.43 lbs (7.45 kg)

Power Supply Specifications

- 350W AC Power Supply
 - AC Input Voltage: 100 VAC to 240 VAC
 - AC Input Current: 5-2.5A
 - AC Input Frequency: 50 - 60 Hz
 - Weight: 2.8 lbs (1.3 kg)

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% - 95% (RH), non-condensing

Safety and Regulatory Compliance

Dell provides a multi-language document that contains country-specific restrictions and additional safety and regulatory information for all Dell hardware products. The *Dell PowerConnect W-Series Safety, Environmental, and Regulatory Information* document is included with this product.



CAUTION: Dell 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.

Regulatory Models

This document covers the following models:

Table 17 *Regulatory Model Numbers*

Part Number	Regulatory Model Number
W-7210	ARCN0100
W-7210-IL	
W-7210-US	
W-7220	ARCN0101
W-7220-IL	
W-7220-US	
W-7240	ARCN0102
W-7240-IL	
W-7240-US	

FCC

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. this device may not cause harmful interference
2. this device must accept any interference received, including interference that may cause undesired operation.

Industry Canada

This Class A digital apparatus complies with Canadian ICES-3 & Cet appareil numérique de la classe A est conforme à la norme NMB-3 du Canada.

EU Regulatory Conformance

This product is CE marked according to the provisions of the EMC Directive (2004/108/EC) - CE. Dell, hereby declares that 7210; 7220 & 7240 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 at the following location in the EU community.



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 60825-2:2000-05.

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

Battery Statements



CAUTION: 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.



CAUTION: 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.



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

Proper Disposal of Dell Equipment

Waste of Electrical and Electronic Equipment



Dell 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 wheeled 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



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

China RoHS



Dell 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.						
对销售之目的所售产品, 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.						