

Dell PowerEdge R720 and R720xd Getting Started Guide

Regulatory Model: E14S Series
Regulatory Type: E14S001



Notes, Cautions, and Warnings



NOTE: A NOTE indicates important information that helps you make better use of your computer.



CAUTION: A CAUTION indicates potential damage to hardware or loss of data if instructions are not followed.



WARNING: A WARNING indicates a potential for property damage, personal injury, or death.

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Installation And Configuration

 **WARNING:** Before performing the following procedure, review the safety instructions that came with the system.

Unpacking a Rack System

Unpack your system and identify each item.

Assemble the rails and install the system in the rack following the safety instructions and the rack installation instructions provided with your system.

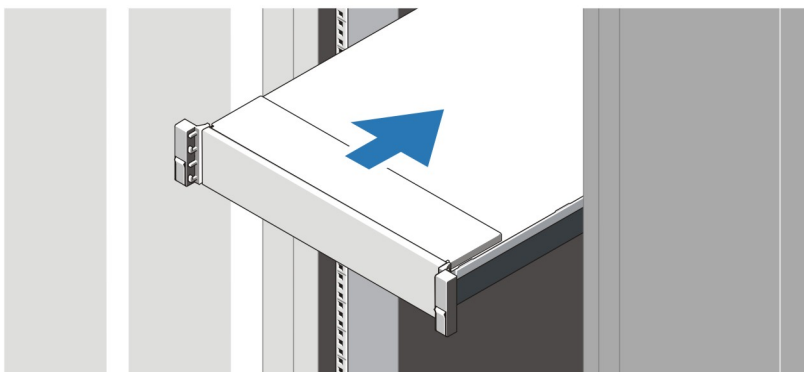


Figure 1. Installing the Rails and System in a Rack

Connecting The Optional Keyboard, Mouse, And Monitor

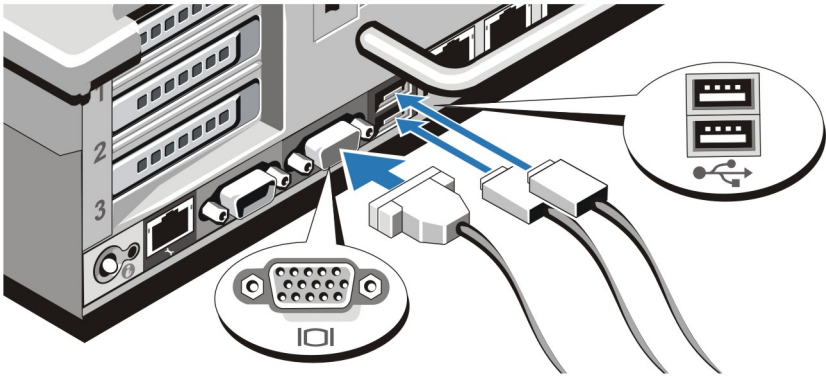


Figure 2. Connecting Keyboard, Mouse, and Monitor

Connect the keyboard, mouse, and monitor (optional).

The connectors on the back of your system have icons indicating which cable to plug into each connector. Be sure to tighten the screws (if any) on the monitor's cable connector.

Connecting The Power Cable(s)

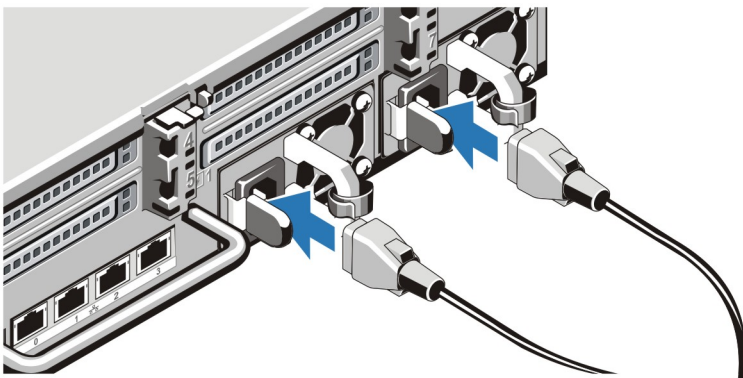


Figure 3. Connecting the Power Cable(s)

Connect the system's power cable(s) to the system and, if a monitor is used, connect the monitor's power cable to the monitor.

Securing The Power Cable(s)

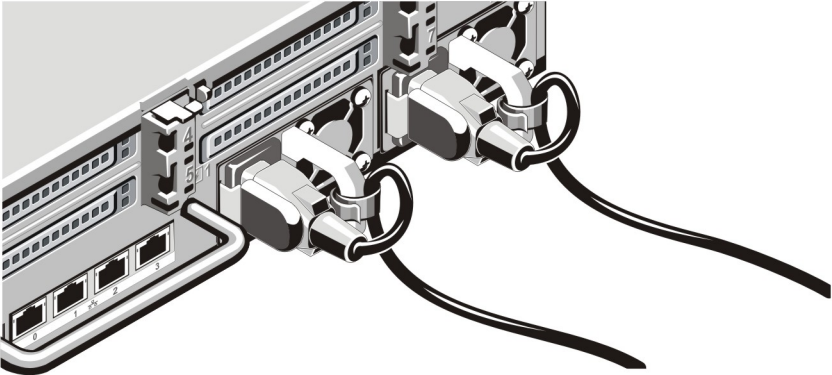


Figure 4. Securing the Power Cable(s)

Bend the system power cable(s), as shown in the illustration, and attach to the cable strap.

Plug the other end of the power cable(s) into a grounded electrical outlet or a separate power source such as an uninterruptible power supply (UPS) or a power distribution unit (PDU).

Turning On The System

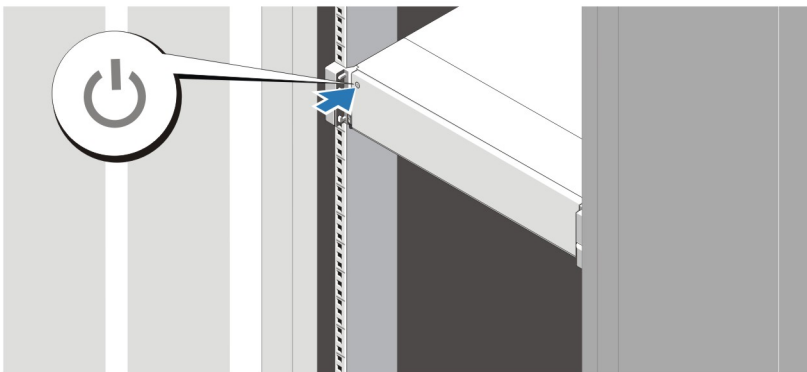


Figure 5. Turning on the System

Press the power button on the system. The power indicator should light.

Installing The Optional Bezel

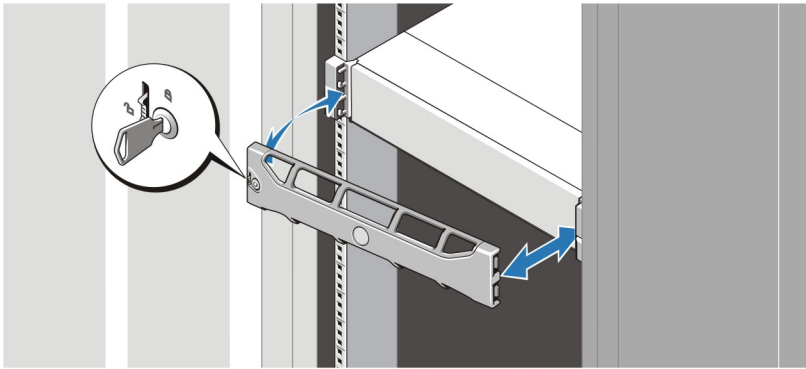


Figure 6. Installing the Bezel

Install the bezel (optional).

Complete The Operating System Setup

If you purchased a preinstalled operating system, see the documentation associated with the operating system. To install an operating system for the first time, see the installation and configuration documentation for your operating system. Be sure the operating system is installed before installing hardware or software not purchased with the system.



NOTE: For the latest information on supported operating systems, see dell.com/ossupport.

Dell Software License Agreement

Before using your system, read the Dell Software License Agreement that came with your system. You must consider any media of Dell-installed software as BACKUP copies of the software installed on your system's hard drive. If you do not accept the terms of the agreement, call the customer assistance telephone number. For customers in the United States, call 800-WWW-DELL (800-999-3355). For customers outside the United States, visit support.dell.com and select your country or region from the top of the page.

Other Information You May Need



WARNING: See the safety and regulatory information that shipped with your system. Warranty information may be included within this document or as a separate document.

- The *Owner's Manual* provides information about system features and describes how to troubleshoot the system and install or replace system components. This document is available online at support.dell.com/manuals.
- The rack documentation included with your rack solution describes how to install your system into a rack, if required.
- Any media that ships with your system that provides documentation and tools for configuring and managing your system, including those pertaining to the operating system, system management software, system updates, and system components that you purchased with your system.



NOTE: Always check for updates on support.dell.com/manuals and read the updates first because they often supersede information in other documents.

Obtaining Technical Assistance

If you do not understand a procedure in this guide or if the system does not perform as expected, see your *Owner's Manual*. Dell offers comprehensive hardware training and certification. See dell.com/training for more information. This service may not be offered in all locations.


NOM Information


The following information is provided on the device described in this document in compliance with the requirements of the official Mexican standards (NOM):

Importer:	Dell Inc. de México, S.A. de C.V. Paseo de la Reforma 2620 -11º Piso Col. Lomas Altas 11950 México, D.F.
Model number:	E14S
Supply voltage:	100–240 V CA (with 495 W, 750 W, and 1100 W AC power supply unit) or –(48–60) V de CC (with 1100 W DC power supply unit)

Frequency:	50 Hz/60 Hz (AC power supply unit)
Current consumption:	12 A – 6.5 A (X 2) (with 1100 W AC power supply unit) 10 A – 5 A (X 2) (with 750 W AC power supply unit) 6.5 A – 3 A (X 2) (with 495 W AC power supply unit) 32 A (X 2) (with 1100 W DC power supply unit)


Technical Specifications


 **NOTE:** The following specifications are only those required by law to ship with your system. For a complete and current listing of the specifications for your system, go to support.dell.com.

 **NOTE:** The following specifications apply to both PowerEdge R720 and PowerEdge R720xd unless specified.

Power

AC Power Supply (per power supply)

Wattage	495 W, 750 W, or 1100 W
Heat dissipation	1908 BTU/hr maximum (495 W power supply)
 NOTE: Heat dissipation is calculated using the power supply wattage rating.	2891 BTU/hr maximum (750 W power supply) 4100 BTU/hr maximum (1100 W power supply)
Voltage	100–240 V AC, autoranging, 50/60 Hz

 **NOTE:** This system is also designed to be connected to IT power systems with a phase to phase voltage not exceeding 230 V.

DC Power Supply (per power supply) (when available)

Wattage	1100 W
Heat dissipation	4416 BTU/hour maximum

Power



NOTE: Heat dissipation is calculated using the power supply wattage rating.

Voltage	–(48–60) V DC
Battery	
Coin-cell battery	3 V CR2032 Lithium coin cell

Physical

Height	87.3 mm (3.44 inch)
Width	
With rack latches	482.4 mm (18.98 inch)
Without rack latches	444 mm (17.08 inch)
Depth (includes bezel)	755.8 mm (29.75 inch)
Weight (maximum)	
2.5-inch hard-drive systems	29.5 kg (64.9 lbs)
3.5-inch hard-drive systems (PowerEdge R720)	29.2 kg (64.3 lbs)
3.5-inch hard-drive systems (PowerEdge R720xd)	32.5 kg (71.5 lbs)
Weight (empty)	
2.5-inch hard-drive systems	11.7 kg (25.7 lbs)
3.5-inch hard-drive systems	10.3 kg (22.7 lbs)

Environmental




NOTE: For additional information about environmental measurements for specific system configurations, see dell.com/environmental_datasheets.


Temperature

Operating	Continuous operation: 10 °C to 35 °C at 10% to 80% relative humidity (RH), with 26
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Environmental

°C max dew point. De-rate maximum allowable dry bulb temperature at 1 °C/300 m above 900 m (1 °F per 550 ft).

 **NOTE:** When using PowerEdge R720 with internal GPGPU card(s), the continuous operation range is 10 °C to 30 °C at 10% to 80% RH, with 26 °C max dew point.

 **NOTE:** For information on supported expanded operating temperature range and configurations, see support.dell.com/manuals.

Storage

–40 °C to 65 °C (–40 °F to 149 °F) with a maximum temperature gradation of 20 °C per hour

Relative humidity

Operating

20% to 80% (noncondensing) at a maximum wet bulb temperature of 29 °C (84.2 °F)

Storage

5% to 95% at a maximum wet bulb temperature of 38 °C (100.4 °F)

Maximum vibration

Operating

0.26 Grms at 5–350 Hz (all operation orientations)

Storage

1.87 Grms at 10–500 Hz for 15 min (all six sides tested)

Maximum shock

Operating

One shock pulse in the positive z axis (one pulse on each side of the system) of 31 G for 2.6 ms in the operational orientation

Storage

Six consecutively executed shock pulses in the positive and negative x, y, and z

Environmental

axes (one pulse on each side of the system) of 71 G for up to 2 ms

Six consecutively executed shock pulses in the positive and negative x, y, and z axes (one pulse on each side of the system) of 32 G faired square wave pulse with velocity change at 270 inches/second (685 centimeters/second)

Altitude

Operating

–15.2 m to 3048 m (–50 ft to 10,000 ft)



NOTE: For altitudes above 2950 ft, the maximum operating temperature is derated 1°F/550 ft.

Storage

–15.2 m to 10,668 m (–50 ft to 35,000 ft)

Airborne Contaminant Level

Class

G1 as defined by ISA-S71.04-1985

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