


Dell PowerEdge R320

Getting Started Guide

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Notes, cautions, and warnings

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

 **CAUTION:** A CAUTION indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.

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

Installation And Configuration

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

Topics:

- [Unpacking A Rack System](#)
- [Optional—Connecting The Keyboard, Mouse, And Monitor](#)
- [Connecting The Power Cable\(s\)](#)
- [Securing The Power Cable\(s\)](#)
- [Turning On The System](#)
- [Installing The Optional Bezel](#)
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- [Technical Specification](#)

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.

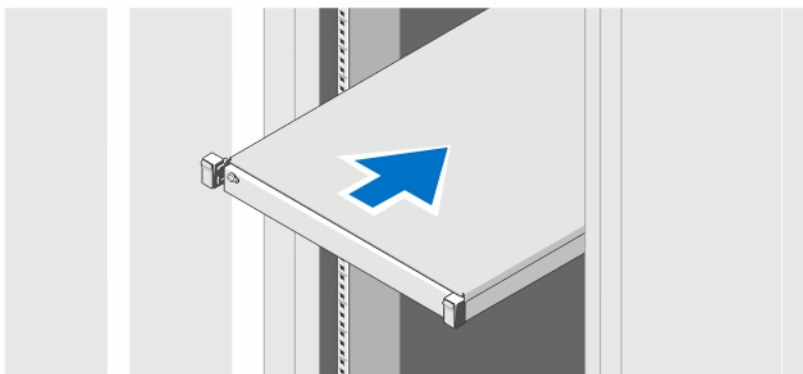


Figure 1. Installing the Rails and System in a Rack

Optional—Connecting The Keyboard, Mouse, And Monitor

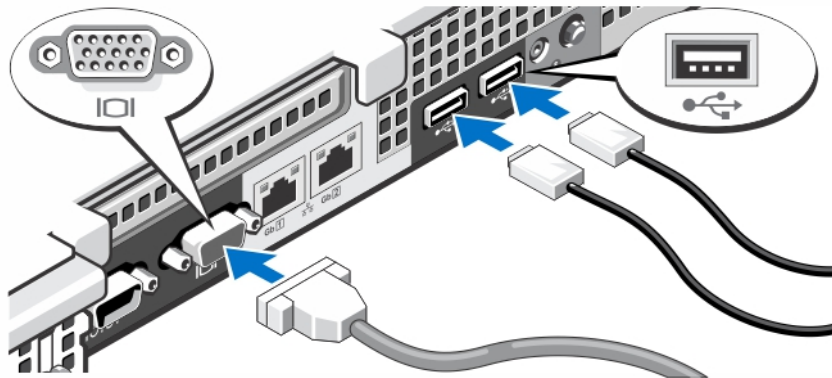


Figure 2. Connecting the Keyboard, Mouse, and Monitor

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)

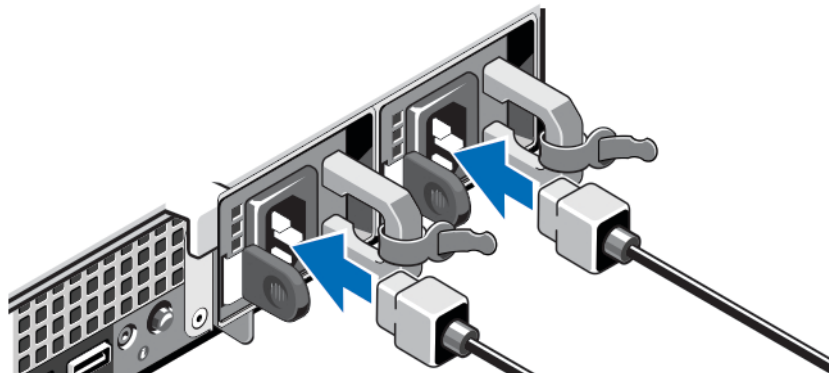


Figure 3. Connecting the Power Cable(s)

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

Securing The Power Cable(s)

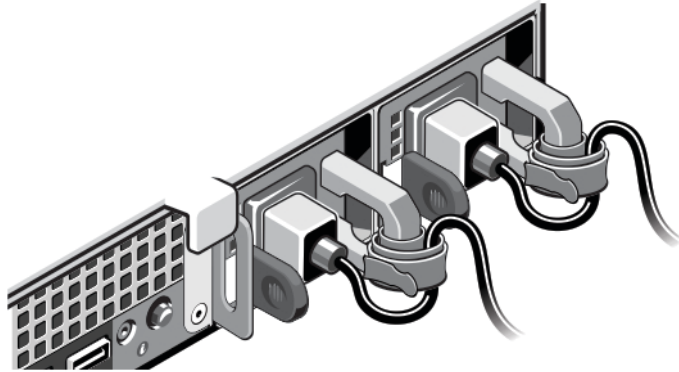


Figure 4. Securing the Power Cable(s)

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

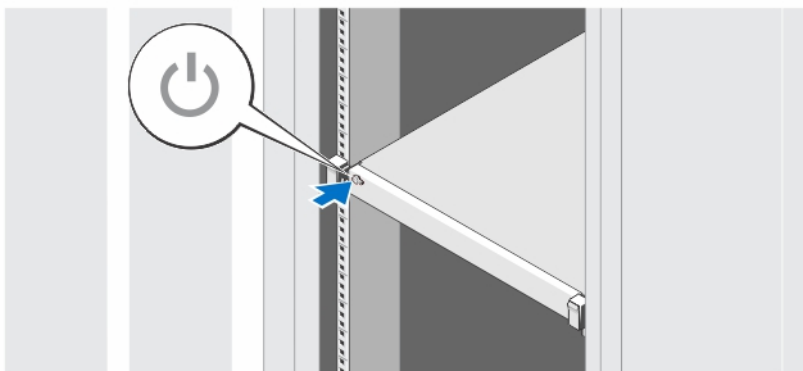


Figure 5. Turning on the System

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

Installing The Optional Bezel

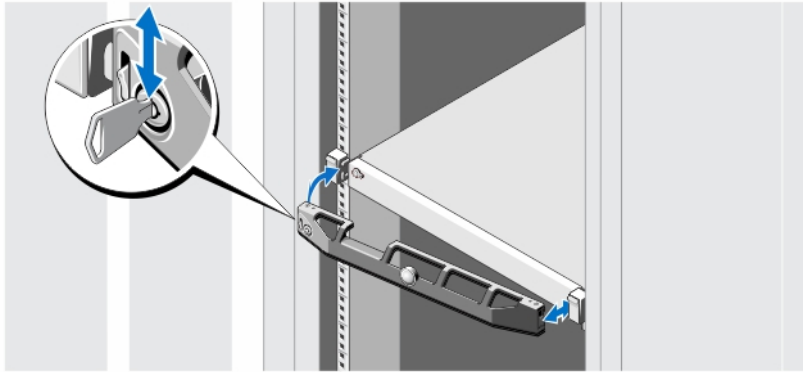


Figure 6. Installing the Optional Bezel

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: See dell.com/ossupport for the latest information on supported operating systems.

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, see dell.com/support and select your country or region from the top left of the page.

Other Information You May Need

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

NOTE: When upgrading your system, it is recommended that you download and install the latest BIOS, driver, and systems management firmware on your system from dell.com/support.

Contacting Dell

Dell provides several online and telephone-based support and service options. If you do not have an active internet connection, you can find contact information about your purchase invoice, packing slip, bill, or Dell product catalog. Availability varies by country and product, and some services may not be available in your area. To contact Dell for sales, technical assistance, or customer-service issues:


1. Go to **Dell.com/support**.
2. Select your country from the drop-down menu on the lower right corner of the page.
3. For customized support:
 - a. Enter your system Service Tag in the **Enter your Service Tag** field.
 - b. Click **Submit**.
The support page that lists the various support categories is displayed.
4. For general support:
 - a. Select your product category.
 - b. Select your product segment.
 - c. Select your product.
The support page that lists the various support categories is displayed.
5. For contact details of Dell Global Technical Support:
 - a. Click [Global Technical Support](#).
 - b. The **Contact Technical Support** page is displayed with details to call, chat, or e-mail the Dell Global Technical Support team.


NOM Information (Mexico Only)

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:	E18S
Supply voltage:	100 V CA–240 V CA
Frequency:	50 Hz/60 Hz
Current consumption:	4.8 A – 2.4 A (X2) (with 350 W Redundant AC Power Supply Unit) 4.8 A – 2.4 A (with 350 W Non-redundant AC Power Supply Unit) 7.4 A – 3.7 A (X2) (with 550 W Redundant AC Power Supply Unit)

Technical Specification

 **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 **Dell.com/support**.

Power	
AC Power Supply (per power supply)	
Wattage	350 W and 550 W
Heat dissipation	1356 BTU/hr maximum (redundant, 350 W power supply)
 NOTE: Heat dissipation is calculated using the power supply wattage rating.	1531 BTU/hr maximum (non-redundant, 350 W power supply)


Power

2132 BTU/hr maximum (redundant, 550 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.	
Battery	
Coin-cell battery	3 V CR2032 Lithium coin cell


Physical

Height	42.8 mm (1.68 inch)
Width	
With rack latches	482.4 mm (18.99 inch)
Without rack latches	434.0 mm (17.08 inch)
Depth (excludes bezel)	607.0 mm (23.9 inch)
Weight (maximum)	19.3 kg (42.55 lb)
Weight (empty)	16.33 kg (36 lb)

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 °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: 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 G _{rms} at 5 Hz to 350 Hz (all operation orientations)
Storage	1.87 G _{rms} at 10 Hz to 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 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

Environmental

Operating

–15.2 m to 3048 m (–50 to 10,000 ft)

 **NOTE:** In compliance with the requirements of the official Chinese standards, the operating altitude for systems shipping in China is in the range of –15.2 m to 2000 m (–50 ft to 6560 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