




Dell PowerEdge T20 Getting Started Guide

Regulatory Model: D13M
Regulatory Type: D13M001



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.

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Installation And Configuration

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

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Unpacking The System

Unpack your system and identify each item.

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Connecting The Optional Keyboard, Mouse, And Monitor

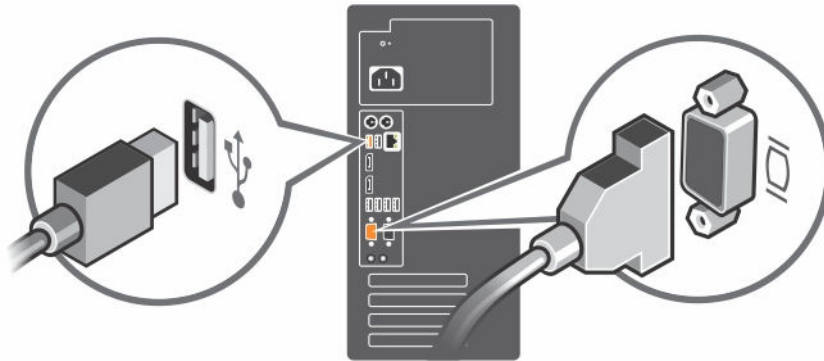


Figure 1. Connecting Keyboard, Mouse, and Monitor

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.

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Connecting The Power Cable

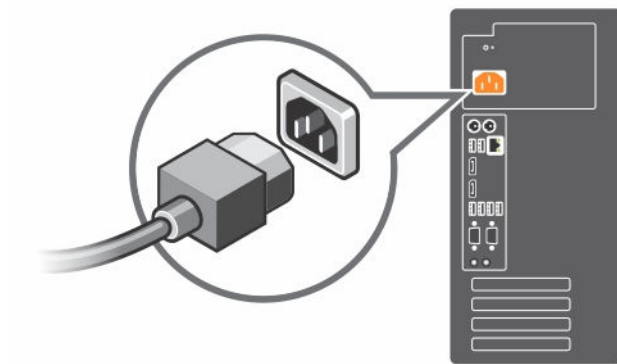


Figure 2. Connecting Power Cable

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

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Turning On The System

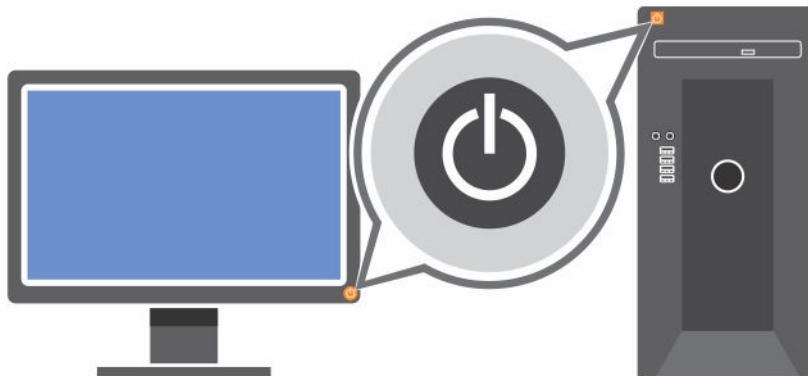



Figure 3. Turning on the System

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

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Complete The Operating System Setup

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

 **NOTE:** For more information on supported operating systems, see dell.com/ossupport.

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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.


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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 www.dell.com/poweredge manuals.
- 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.

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Obtaining Technical Assistance

If you do not understand a procedure in this guide or if the system does not perform as expected, see your system 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.

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Información NOM (sólo para México)

La información que se proporciona a continuación aparece en el dispositivo descrito en este documento, de conformidad con los requisitos de la Norma Oficial Mexicana (NOM):

Table 1. Información NOM

Importador:	Dell Inc. de México, S.A. de C.V. Paseo de la Reforma 2620 -11º Piso Col. Lomas Altas 11950 México, D.F.
Número de modelo:	D13M
Voltaje de alimentación:	100 V CA-240 V CA

Frecuencia: 50 Hz/60 Hz
Consumo eléctrico: 5,0 A

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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 Dell.com/support.

Table 3. Power specifications



Power	
AC Power Supply	
Wattage	290 W
Heat dissipation	 NOTE: Heat dissipation is calculated using the power supply wattage rating.
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

Table 4. Hard drive specifications


Drives	
Hard drives	Up to four 3.5 inch and two 2.5 inch internal, cabled SATA hard drives
	 NOTE: If you install more than four SATA hard drives, you need an optional SATA controller card.

Table 5. Expansion bus specifications




Expansion Bus	
Bus type	PCI Express Generation 3
Expansion card slots:	Supports three PCIe expansion card slots and one PCI expansion card slot
	 NOTE: The power consumption of the PCIe expansion cards is less than 25 W.

Table 6. Physical specifications

Physical	
Height	36.29 cm (14.29 inch) with feet
	36.0 cm (14.17 inch) without feet
Width	17.5 cm (6.88 inch)
Depth	43.5 cm (17.12 inch) with bezel
	40.0 cm (15.75 inch) without bezel
Maximum configuration weight	8.6 kg (18.95 lb)
Empty weight	8 kg (17.64 lb)

Table 7. Environmental specifications

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 maximum 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 dell.com/support/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)
Non-operating	2.2 G _{rms} at 5 Hz to 500 Hz for 15 min (all six sides tested)
Maximum shock	
Operating	One shock pulse (all operating orientations) of 40 G for 2 ms in the operational orientation
Non-operating	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/2 ms half sine shock

Environmental

Six consecutively executed shock pulses in the positive and negative x, y, and z axes (one pulse on each side of the system) of 50 G/320 inps long duration half sine shock

Altitude

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 5000 m (–50 ft to 16400 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