

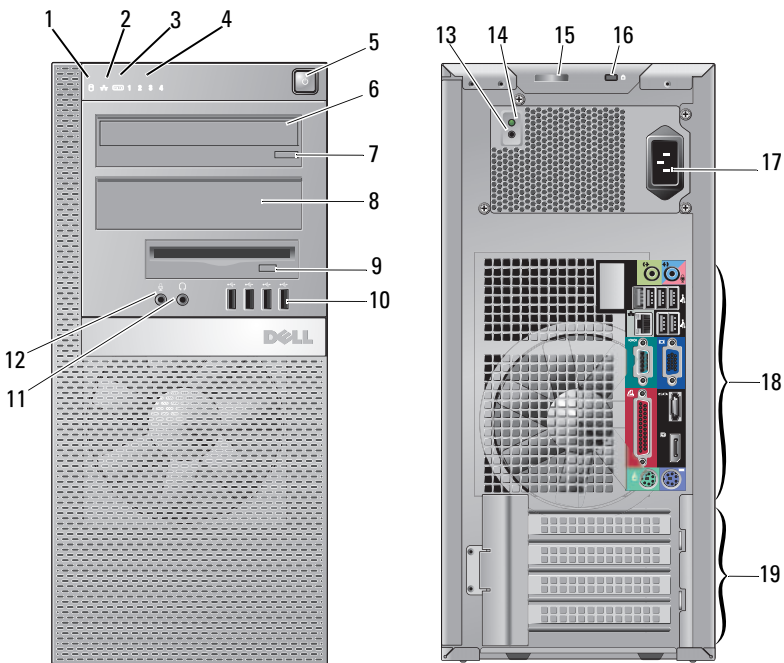


About Warnings

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

Dell™ OptiPlex™ 960 Setup and Features Information

Mini Tower — Front and Back View

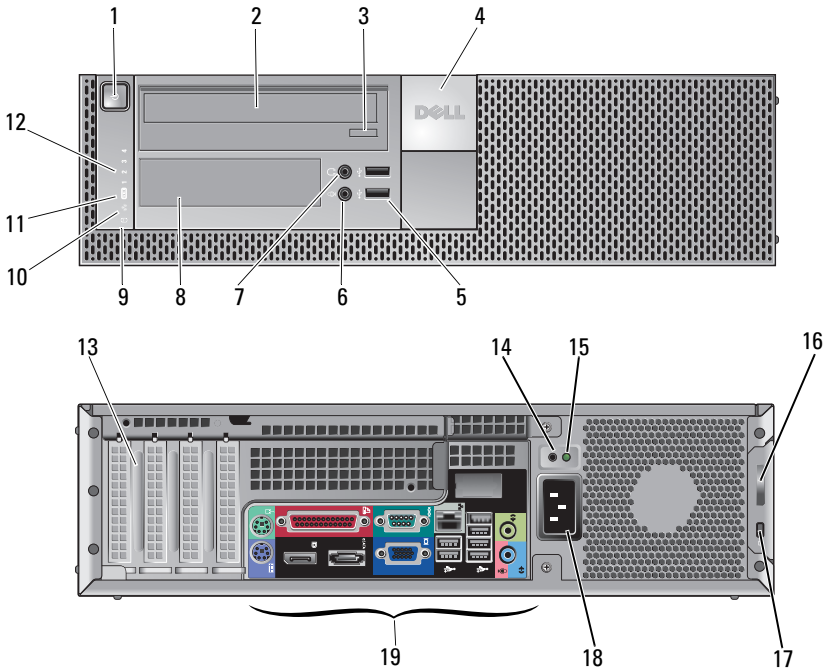


- 1 hard drive activity light
- 3 WiFi (optional) light

- 2 network link integrity light
- 4 diagnostic lights

- | | | | |
|----|--|----|--------------------------|
| 5 | power button, power light | 6 | CD/DVD drive |
| 7 | CD/DVD drive eject button | 8 | CD/DVD filler panel |
| 9 | flex bay (for optional floppy drive or memory card reader) | 10 | USB 2.0 connectors (4) |
| 11 | headphone connector | 12 | microphone connector |
| 13 | power supply check button | 14 | power supply check light |
| 15 | cover release latch and padlock ring | 16 | security cable slot |
| 17 | power connector | 18 | back panel connectors |
| 19 | expansion-card slots (4) | | |

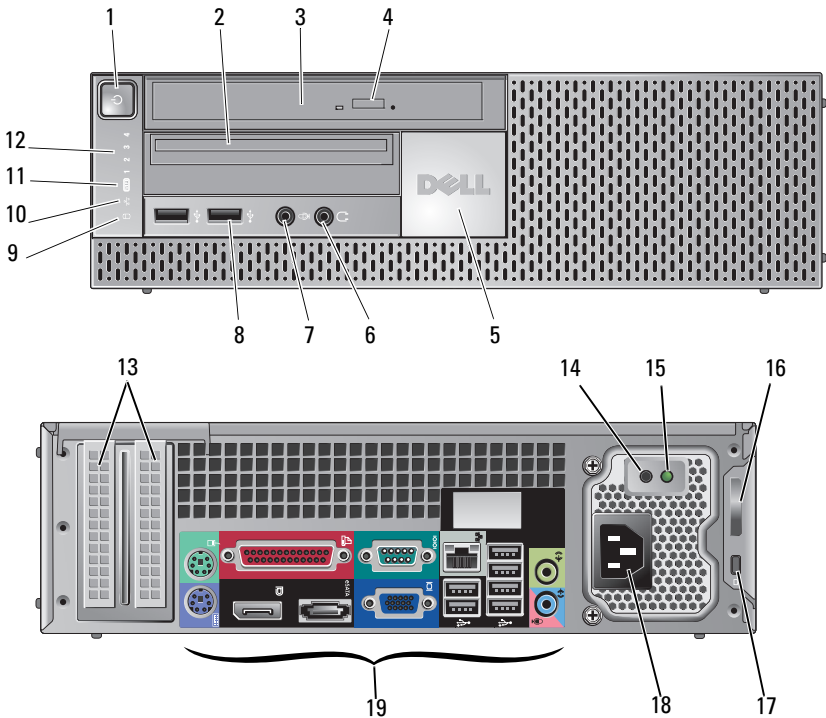
Desktop — Front and Back View



- | | | | |
|---|--------------------------------|---|--------------|
| 1 | power button, power light | 2 | CD/DVD drive |
| 3 | CD/DVD drive tray eject button | 4 | Dell badge |

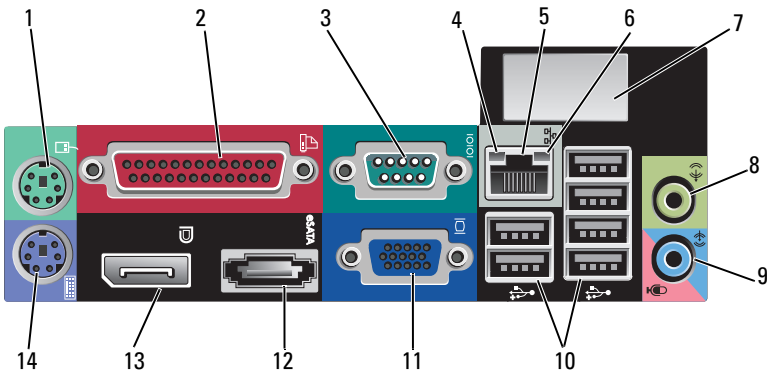
- | | | | |
|----|---------------------------|----|--|
| 5 | USB 2.0 connectors (2) | 6 | microphone connector |
| 7 | headphone connector | 8 | flex bay (for optional floppy drive, memory card reader, or second 3.5-inch hard disk drive) |
| 9 | hard drive activity light | 10 | link integrity light |
| 11 | WiFi (optional) light | 12 | diagnostic lights |
| 13 | expansion card slots (4) | 14 | power supply check button |
| 15 | power supply check light | 16 | cover release latch and padlock ring |
| 17 | security cable slot | 18 | power connector |
| 19 | back panel connectors | | |

Small Form Factor— Front and Back View



- | | | | |
|----|---------------------------|----|---|
| 1 | power button, power light | 2 | slimline flex bay (for optional floppy drive or memory card reader) |
| 3 | CD/DVD drive (slimline) | 4 | CD/DVD drive eject button |
| 5 | Dell badge | 6 | headphone connector |
| 7 | microphone connector | 8 | USB 2.0 connectors (2) |
| 9 | hard drive activity light | 10 | link integrity light |
| 11 | WiFi (optional) light | 12 | diagnostic lights |
| 13 | expansion card slots (2) | 14 | power supply check button |
| 15 | power supply check light | 16 | cover release latch and padlock ring |
| 17 | security cable slot | 18 | power connector |
| 19 | back panel connectors | | |

Back Panel Connectors — Mini Tower, Desktop, and Small Form Factor



- | | | | |
|----|---------------------------------------|----|------------------------------|
| 1 | PS2 mouse connector | 2 | parallel (printer) connector |
| 3 | serial connector | 4 | link integrity light |
| 5 | network adapter connector | 6 | network activity light |
| 7 | space for optional wireless connector | 8 | line-out connector |
| 9 | line-in/microphone connector | 10 | USB 2.0 connectors (6) |
| 11 | VGA video connector | 12 | eSATA connector |
| 13 | DisplayPort connector | 14 | PS2 keyboard connector |

Quick Setup



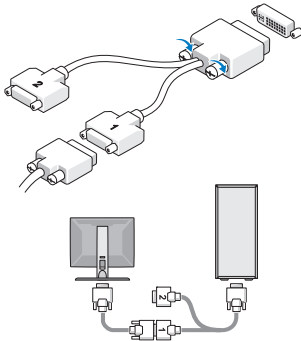
WARNING: Before you begin any of the procedures in this section, read the safety information that shipped with your computer. For additional best practices information see www.dell.com/regulatory_compliance.



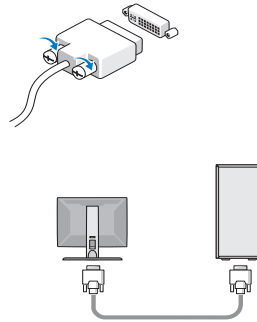
NOTE: Some devices may not be included if you did not order them.

1 Connect the monitor using one of the following cables:

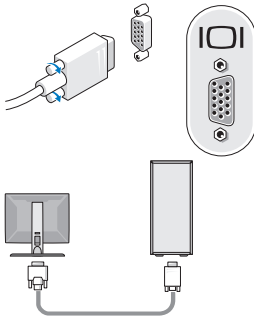
a The dual-monitor Y-adapter cable.



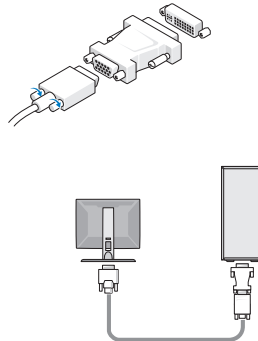
b The white DVI cable.



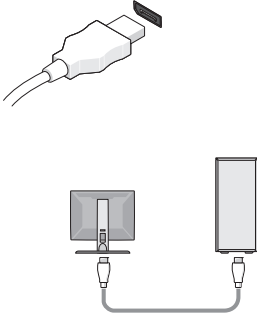
c The blue VGA cable.



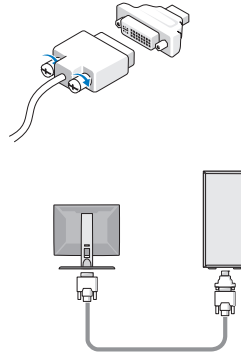
d The blue VGA cable to DVI adapter.



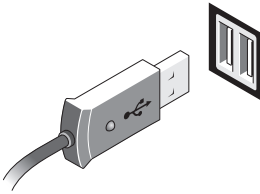
e The DisplayPort cable.



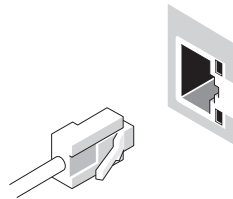
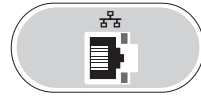
f DVI to DisplayPort connector.



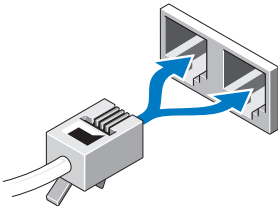
2 Connect a USB device, such as a keyboard or mouse.



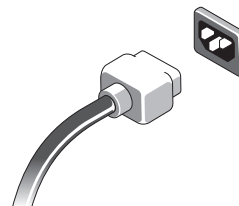
3 Connect the network cable (optional).



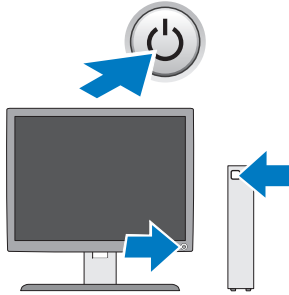
4 Connect the modem (optional).



5 Connect the power cable(s).



6 Press the power buttons on the monitor and the computer.



Specifications



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

Video

Type:

Integrated	Intel® Graphics Media Accelerator 4500 Microsoft Windows® XP: up to 1 GB maximum (shared system memory) Microsoft Windows Vista®: up to 1.7 GB maximum (shared system memory)
Discrete	ATI Radeon HD3450 256M ATI Radeon HD3470 256M

NOTE: Support for discrete full-height video cards is available on Mini Tower and Desktop via PCIe x16 graphics card slot. Support for half-height video cards is available on Desktop and Small Form Factor via PCIe x16 graphics card slot.

Drives

Externally accessible:

CD/DVD Drive:	<i>Mini Tower</i> — two external 5.25-inch bays <i>Desktop</i> — one external 5.25-inch bay <i>Small Form Factor</i> — one external 5.25-inch slimline bay <i>Mini Tower</i> — one 3.5-inch external bay for floppy drive or 19-in-1 media card reader
Flexbay:	<i>Desktop</i> — one 3.5-inch external bay for floppy drive or 19-in-1 media card reader <i>Small Form Factor</i> — one 3.5-inch external bay for slimline floppy drive or 19-in-1 media card reader

Drives (continued)

Internally accessible: *Mini Tower* — two 3.5-inch hard disk drives (HDDs) or two 2.5-inch HDDs

Desktop — two 3.5-inch HDDs or two 2.5-inch HDDs

Small Form Factor — one 3.5-inch HDD or two 2.5-inch HDDs

Available devices: *Mini Tower* — two external 5.25-inch bays, one external 3.5-inch bay, two internal 3.5-inch bays

Desktop — one external 5.25-inch bay, one external 3.5-inch bay, one internal 3.5-inch bay

NOTE: The desktop platform can accommodate two 3.5-inch HDDs, provided no floppy drive is used.

NOTE: The desktop platform may use the internal 3.5-inch bay with two 2.5-inch HDDs or the external 3.5-inch bay as an additional internal 3.5-inch HDD bay for RAID configurations.

Small Form Factor — one external 5.25-inch slimline bay, one external 3.5-inch slimline bay, one internal 3.5-inch bay

NOTE: The CD/DVD drives are determined by the number of external 5.25-inch bays.

Controls and Lights

Front of computer:

Power button push button

Power light Blue light — Blinking blue in sleep state; solid blue for power-on state.
Amber light — The blinking amber indicates a problem with the system board. A solid amber light when the computer does not start indicates that the system board cannot start initialization. This could be a system board or a power supply problem.

Drive activity light Blue light — A blinking blue light indicates the computer is reading data from or writing data to the SATA hard drive or CD/DVD drive.

Network link integrity light Blue light — A good connection exists between the network and the computer.
Off (no light) — The computer is not detecting a physical connection to the network.

Diagnostic lights (four) Blinking amber, solid amber, or off.
Used to troubleshoot system issues. See your *Service Manual* for information about diagnostic light codes.

Wi-Fi indicator Blue light — A solid blue light indicates the wireless network is powered on.

Controls and Lights (continued)

Rear of computer:

Link integrity light (on integrated network adapter)	Link integrity light color is based on the link speed: 10 - Green, 100 - Orange, 1000 - Amber/Yellow Off (no light) — The computer is not detecting a physical connection to the network.
Network activity light (on integrated network adapter)	Yellow blinking light.

Power

DC power supply:

NOTE: See the safety information that shipped with your computer for important voltage-setting information.

Voltage	115/230 VAC, 50/60 Hz
Power	<i>Mini Tower</i> — 305 W (standard); 255 W (EPA) <i>Desktop</i> — 255 W (standard or EPA) <i>Small Form Factor</i> — 235 W (standard or EPA)
Current consumption	<i>Mini Tower</i> — 3.6 A/1.8 A <i>Desktop</i> — 4.0 A/2.0 A <i>Small Form Factor</i> — 3.5 A/1.8 A
Coin-cell battery	3 V CR2032 lithium coin cell

Physical

Height	<i>Mini Tower</i> — 40.8 cm (16.06 in) <i>Desktop</i> — 39.7 cm (15.61 in) <i>Small Form Factor</i> — 29.0 cm (11.40 in)
Width	<i>Mini Tower</i> — 18.7 cm (7.36 in) <i>Desktop</i> — 10.9 cm (4.30 in) <i>Small Form Factor</i> — 8.5 cm (3.35 in)
Depth	<i>Mini Tower</i> — 43.1 cm (16.96 in) <i>Desktop</i> — 34.8 cm (13.70 in) <i>Small Form Factor</i> — 32.4 cm (12.74 in)

Physical (continued)

Weight	<i>Mini Tower</i> — at least 11.5 kg (25.3 lb) <i>Desktop</i> — at least 7.5 kg (16.5 lb) <i>Small Form Factor</i> — at least 5.9 kg (13.0 lb)
--------	--

Environmental

Temperature:

Operating 10° to 35°C (50° to 95°F)

Storage -40° to 65°C (-40° to 149°F)

Relative humidity 20% to 80% (noncondensing)

Altitude:

Operating -15.2 to 3048 m (-50 to 10,000 ft)

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

Airborne contaminant level G2 or lower as defined by ISA-S71.04-1985

Finding More Information and Resources

If you need to:**See:**

Find safety best practices information for your computer review Warranty information, Terms and Conditions (U.S. only), Safety instructions, Regulatory information, Ergonomics information, and End User License Agreement.

The safety and regulatory documents that shipped with your computer and also see the Regulatory Compliance Homepage at www.dell.com/regulatory_compliance.

Information in this document is subject to change without notice.

© 2008–2009 Dell Inc. All rights reserved.

Reproduction of these materials in any manner whatsoever without the written permission of Dell Inc. is strictly forbidden.

Trademarks used in this text: *Dell*, the *DELL* logo, and *OptiPlex* are trademarks of Dell Inc.; *Intel* is a registered trademark of Intel Corporation in the U.S. and other countries; *Microsoft*, *Windows*, and *Windows Vista* are either trademarks or registered trademarks of Microsoft Corporation in the United States and/or other countries.

Other trademarks and trade names may be used in this document to refer to either the entities claiming the marks and names or their products. Dell Inc. disclaims any proprietary interest in trademarks and trade names other than its own.