



devon IT

Alternative Desktop Computing

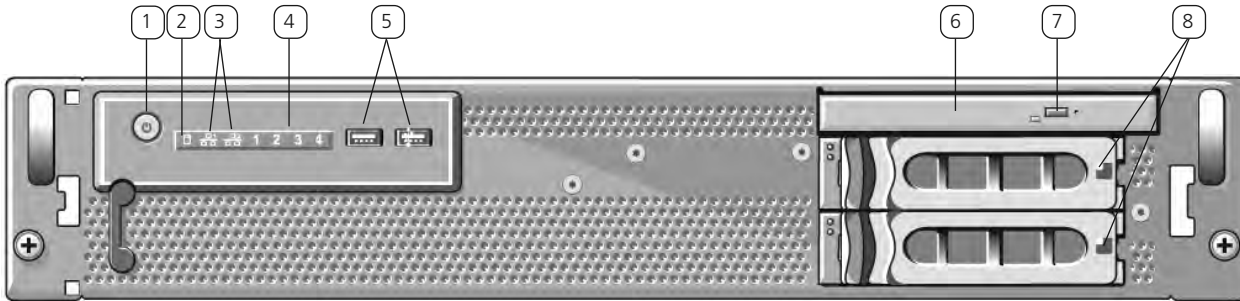
HC12

Quick Start Guide

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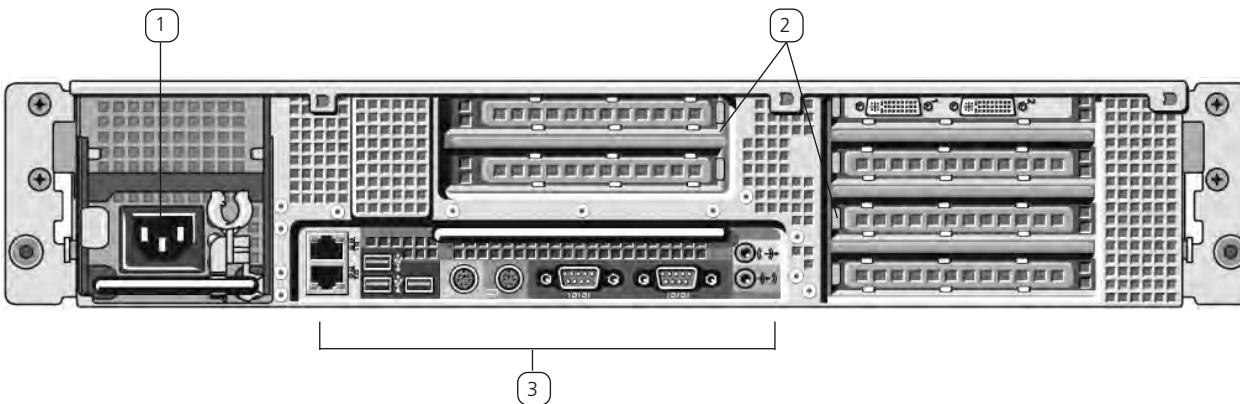
About Your Computer

Front View



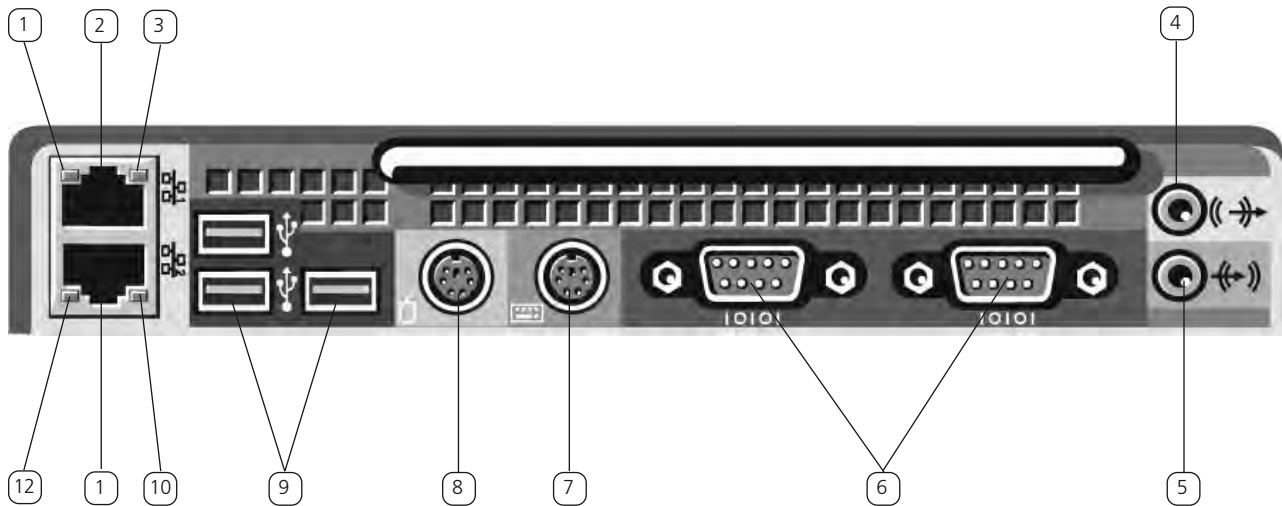
- | | |
|--------------------------------|-------------------------------|
| 1. Power button, power light | 5. USB 2.0 connectors (2) |
| 2. Drive activity light | 6. Optical drive |
| 3. Network activity lights (2) | 7. Optical drive eject button |
| 4. Diagnostic lights (4) | 8. Hard drive bays (2) |

Back View



- | |
|--------------------------|
| 1. Power connector |
| 2. Expansion card slots |
| 3. Back panel connectors |

Back Panel Connectors



- | | |
|--|---|
| 1. Network link integrity light | 7. Keyboard connector |
| 2. Network adapter connector (primary) | 8. Mouse connector |
| 3. Network activity light | 9. USB 2.0 connectors (3) |
| 4. Line-out connector | 10. Network activity light |
| 5. Line-in connector | 11. Network adapter connector (secondary) |
| 6. Serial connectors (2) | 12. Network link integrity light |

Setting Up Your Computer

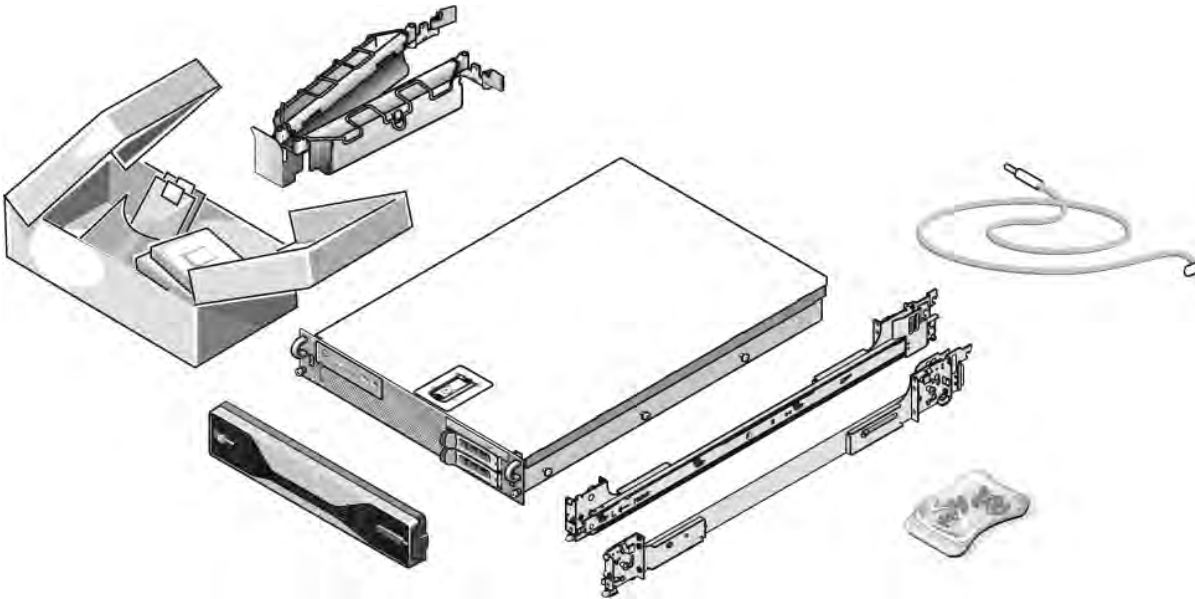
Quick Setup

CAUTION: Before you begin any of the procedures in this section, read and follow the safety instructions provided with your computer.

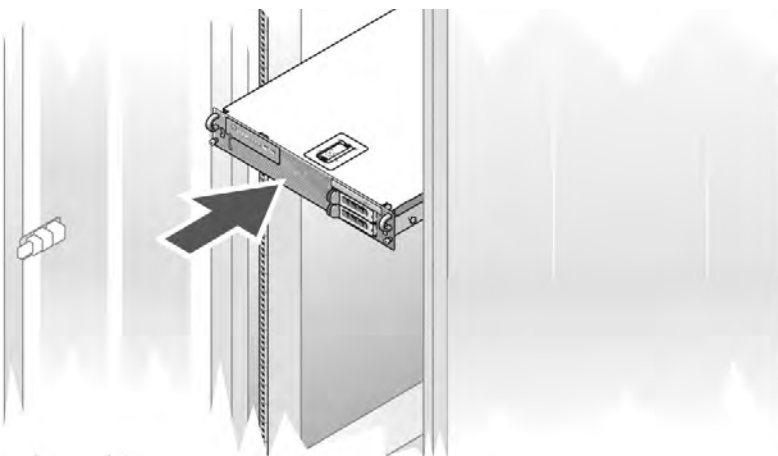
This section describes the steps to set up your computer for the first time.

1. Unpack your computer and identify each item.
Keep all shipping materials in case you need them later.

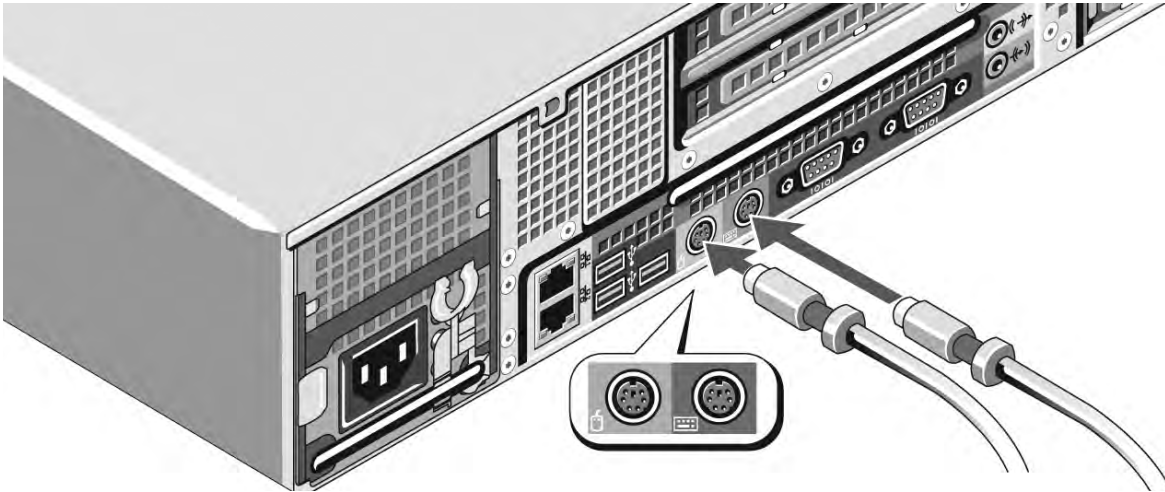
NOTE: Some items included with your computer may not be required for installation (see your rack installation documentation for installation instructions).



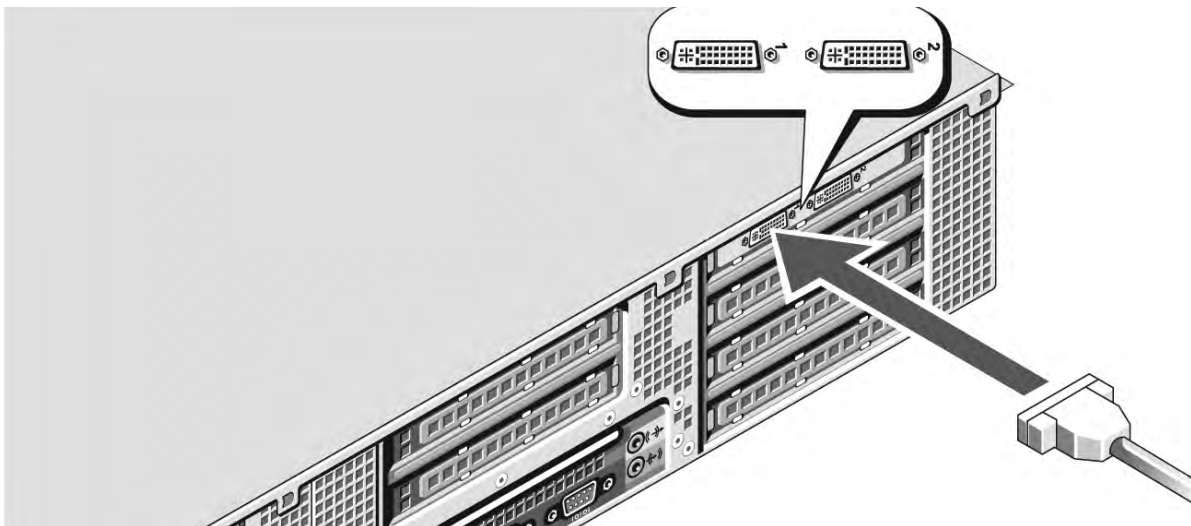
2. Install the rails and the computer in the rack.
See your rack installation documentation for safety instructions and instructions on installing your computer in a rack.



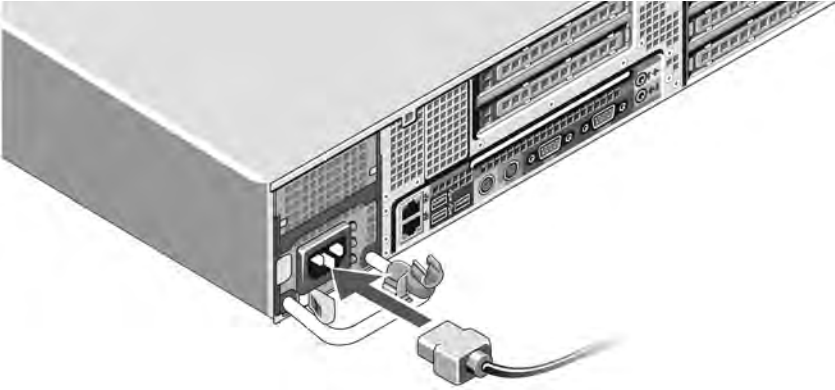
3. Connect the keyboard and mouse.



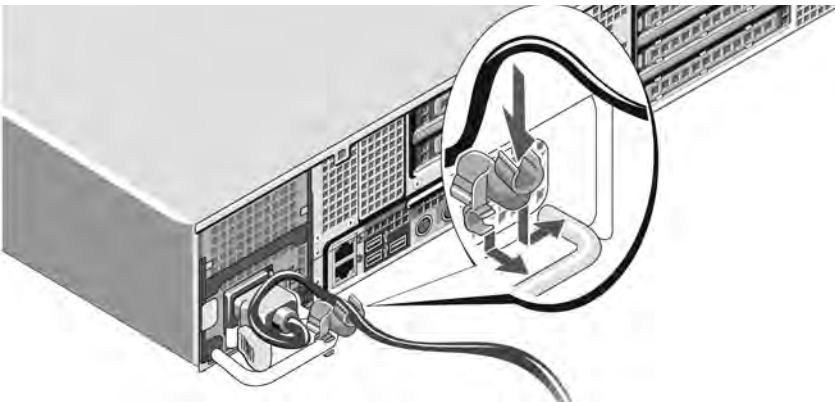
4. Connect the monitor (optional).



5. Connect the computer and monitor (optional) power cables.

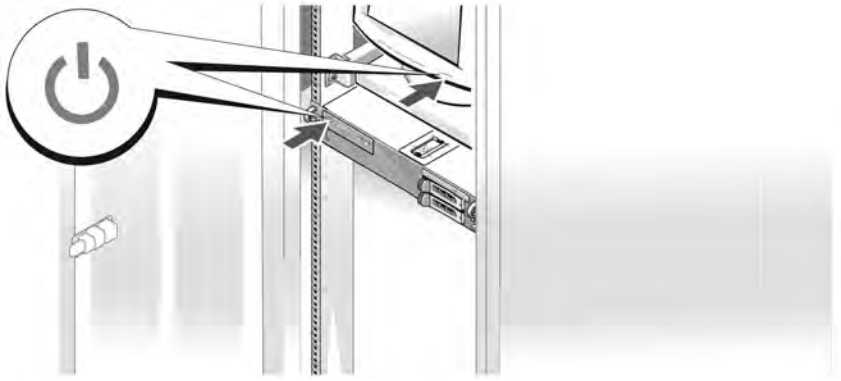


6. Attach the power cable retention bracket on the right bend of the power supply handle. Bend the power cable into a loop as shown in the illustration and attach the cable to the bracket's cable clasp.

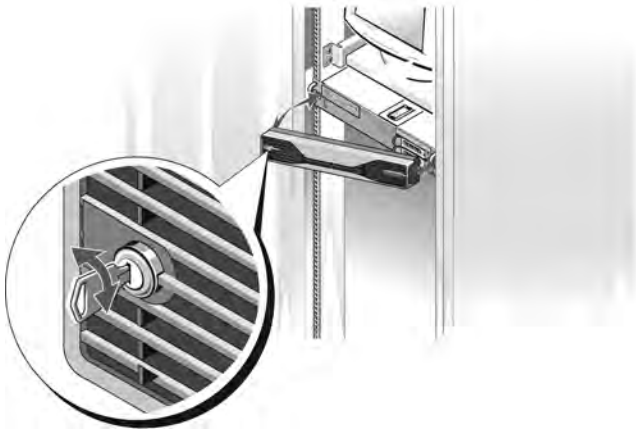


7. Plug the other end of the power cable into a grounded electrical outlet or a separate power source such as an uninterruptible power supply (UPS) or a power distribution unit (PDU).

8. Press the power button on the computer and monitor (optional).
Adjust the monitor's controls, as needed, until the displayed image is satisfactory.



9. Install the bezel (optional).



Connecting to the Internet

NOTE: ISPs and ISP offerings vary by country.

To connect to the Internet, you need a network connection and an Internet service provider (ISP). Contact your ISP for setup instructions.

Setting Up Your Internet Connection

To set up an Internet connection with an ISP desktop shortcut:

1. Save and close any open files, and exit any open programs.
2. Double-click the ISP icon on the Microsoft® Windows® desktop.
3. Follow the instructions on the screen to complete the setup.

If you do not have an ISP icon on your desktop or if you want to set up an Internet connection with a different ISP, perform the steps in the appropriate section below.

NOTE: Have your ISP information ready. If you do not have an ISP, the Connect to the Internet wizard can help you get one.

Microsoft Windows Vista®

1. Save and close any open files, and exit any open programs.
2. Click the Windows Vista Start button™, and then click **Control Panel**.
3. Under **Network and Internet**, click **Connect to the Internet**.

The **Connect to the Internet** window appears.

4. In the **Connect to the Internet** window, click either **Broadband (PPPoE)** or **Dial-up**, depending on how you want to connect:
 - Choose **Broadband** if you are using a DSL, satellite modem, cable TV modem, or Bluetooth® wireless technology connection.
 - Choose **Dial-up** if you are using a dial-up modem or ISDN.

NOTE: If you do not know which type of connection to select, click **Help me choose** or contact your ISP.

5. Follow the instructions on the screen and use the setup information provided by your ISP to complete the setup.

Microsoft Windows XP

1. Save and close any open files, and exit any open programs.
2. Click **Start→ Internet Explorer**.
The **New Connection Wizard** appears.
3. Click **Connect to the Internet**.
4. In the next window, click the appropriate option:
 - If you do not have an ISP and want to select one, click **Choose from a list of Internet service providers (ISPs)**.
 - If you have already obtained setup information from your ISP but you did not receive a setup CD, click **Set up my connection manually**.
 - If you have a CD, click **Use the CD I got from an ISP**.
5. Click **Next**.
Follow the instructions on the screen to complete the setup.
6. Click the appropriate option under **How do you want to connect to the Internet?**, and then click **Next**.

NOTE: If you do not know which type of connection to select, contact your ISP.

7. Use the setup information provided by your ISP to complete the setup.

Transferring Information to a New Computer

Microsoft Windows Vista

1. Click the Windows Vista **Start** button , and then click **Transfer files and settings→ Start Windows Easy Transfer**.
2. In the User Account Control dialog box, click Continue.
3. Click Start a new transfer or Continue a transfer in progress.
4. Follow the instructions provided on the screen by the Windows Easy Transfer wizard.

Microsoft Windows XP

The Microsoft Windows XP operating system provides the Files and Settings Transfer Wizard to transfer data, such as:

- E-mail messages
- Toolbar settings
- Window sizes
- Internet bookmarks

You can transfer data from one computer to another computer over a network or serial connection, or by storing the data on removable media, such as a writable CD or DVD.

NOTE: You can transfer information from one computer to another computer by directly connecting a serial cable to the input/output (I/O) ports of the two computers.

For instructions on setting up a direct cable connection between two computers, see Microsoft Knowledge Base Article #305621, titled *How to Set Up a Direct Cable Connection Between Two Computers in Windows XP*. This information may not be available in certain countries.

Using the Files and Settings Transfer Wizard requires the *Operating System* installation media that came with your computer or a wizard disk, which the wizard can create for you.

Files and Settings Transfer Wizard (With the Operating System Media)

NOTE: The Files and Settings Transfer Wizard designates the source computer from which data is to be transferred as the old computer, and designates the destination computer to which the data is going to be transferred as the new computer.

PREPARE THE DESTINATION COMPUTER FOR THE FILE TRANSFER

1. Click **Start→ All Programs→ Accessories→ System Tools→ Files and Settings Transfer Wizard**.
2. Under **Which computer is this?**, click **New computer**, and click **Next**.
3. Under **Do you have a Windows XP CD?**, click **I will use the wizard from the Windows XP CD**, and click **Next**.
4. Review the information under **Now go to your old computer**, and then go to the source computer. *Do not* click **Next**.

COPY DATA FROM THE SOURCE COMPUTER

1. Insert the *Windows XP Operating System* installation media into the source computer.
The **Welcome to Microsoft Windows XP** screen appears.
2. Click **Perform additional tasks**.
3. Under **What do you want to do?**, click **Transfer files and settings**.
The **Files and Settings Transfer Wizard** window appears.
4. Click **Next**.
5. Under **Which computer is this?**, click **Old Computer**, and click **Next**.
6. Under **Select a transfer method**, click the transfer method of your choice, and click **Next**.
7. Under **What do you want to transfer?**, click to select the data you want to transfer, and click **Next**.
The selected data is copied and the **Completing the Collection Phase** screen appears.
8. Click **Finish**.

TRANSFER DATA TO THE DESTINATION COMPUTER

1. Go to the destination computer.
2. Under **Now go to your old computer**, click **Next**.
3. Under **Where are the files and settings?**, click to select the method you chose for transferring your settings and files and then click **Next**.

The wizard reads the collected files and settings and applies them to the destination computer. When the transfer is complete, the **Finished** screen appears.

4. Click **Finished**, and then restart the computer.

Files and Settings Transfer Wizard (Without the Operating System Media)

To run the Files and Settings Transfer Wizard without the Operating System installation media, you must create a wizard disk. The wizard disk allows you to create a backup image file on removable media.

NOTE: The Files and Settings Transfer Wizard designates the source computer from which data is to be transferred as the old computer, and designates the destination computer to which the data is going to be transferred as the new computer.

CREATE A WIZARD DISK

1. On the destination computer, click **Start → All Programs → Accessories → System Tools → Files and Settings Transfer Wizard**.
2. Under **Which computer is this?**, click **New computer**, and click **Next**.
3. Under **Do you have a Windows XP CD?**, click **I want to create a Wizard Disk in the following drive**, and click **Next**.
4. Insert removable media, such as a writable CD or DVD, and click **OK**.
5. Review the information under **Now go to your old computer**, and then go to the source computer. *Do not* click **Next**.

COPY DATA FROM THE SOURCE COMPUTER

1. Insert the wizard disk into the source computer.
2. Click **Start → Run**.
3. Click **Browse...** and navigate to **fastwiz** on the wizard disk, and click **OK**.
4. Under **Which computer is this?**, click **Old Computer**, and click **Next**.
5. Under **Select a transfer method**, click the transfer method of your choice, and click **Next**.
6. Under **What do you want to transfer?**, click to select the data you want to transfer, and click **Next**.
The selected data is copied and the **Completing the Collection Phase** screen appears.
7. Click **Finish**.

TRANSFER DATA TO THE DESTINATION COMPUTER

1. Go to the destination computer.
2. Under **Now go to your old computer**, click **Next**.
3. Under **Where are the files and settings?**, click to select the method you chose for transferring your settings and files, and click **Next**.

The wizard reads the collected files and settings and applies them to the destination computer. When the transfer is complete, the **Finished** screen appears.

4. Click **Finished**, and then restart the computer.

SPECIFICATIONS

NOTE: Offerings may vary by region. For more information regarding the configuration of your computer, click **Start** → **Help and Support** and select the option to view information about your computer.

Processor

Processor type	one or two Dual-Core Intel® Xeon® 5200 processors one or two Quad-Core Intel Xeon 5400 processors
Level 2 (L2) cache	Dual-Core Intel Xeon 5200 processor: 6 MB Quad-Core Intel Xeon 5400 processor: 12 MB
Front side bus (FSB)	1333 MHz

System Information

Chipset	Intel 5400
Data bus width	64 bits
Address bus width	38 bits
DMA channels	seven
Interrupt levels	24
BIOS chip (NVRAM)	8 Mb
NIC	<p>integrated network interface with ASF 2.0 support as defined by DMTF, capable of 10/100/1000-Mbps communication:</p> <ul style="list-style-type: none"> • green — A good connection exists between a 10-Mbps network and the computer. • orange — A good connection exists between a 100-Mbps network and the computer. • yellow — A good connection exists between a 1000-Mbps (1-Gb) network and the computer. • off — The computer is not detecting a physical connection to the network. <p>NOTE: ASF 2.0 support and wakeup on LAN are not available on the secondary NIC and are not available on the primary NIC in teaming mode.</p>
RAID support	RAID 0 and RAID 1 (mirroring)

Memory

Type	667-MHz DDR2 ECC fully buffered DIMMs (FBD)
Memory connectors	four
Memory capacities	256 MB, 512 MB, 1 GB, 2 GB, 4 GB, and 8 GB
Minimum memory	256 MB
Maximum memory	32 GB

Drives

Externally accessible	up to two 3.5-inch drive bays (FlexBay) one 5.25-inch slimline drive bay
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NOTICE: Hard drives are not hot swappable.

Available devices	up to two 3.5-inch SATA hard drives one slimline SATA optical drive
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Video

Type	PCI Express x16 (two slots)
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Audio

Type	integrated ADI 1984 High Definition Audio CODEC and AC97/High Definition digital controller
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Expansion Bus

Bus type	PCI 2.3 PCI Express 1.0a SATA 2.0 USB 2.0
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Bus speed/transfer rate	PCI: 133 MB/s PCI Express: x8 slot bidirectional speed — 500 MB/s x16 slot bidirectional speed — 1 GB/s SATA 1.0 and 2.0: 150 and 300 Mbps per drive USB 2.0: up to 480 Mbps (high speed)
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Expansion slots

Center riser

PCI-X
 PCI

one full height, full length 3.3 V, 64 bit, 100 MHz
 one PCI Universal, full height, full length 5.0 V,
 32 bit, 33 MHz

one full height, full length x8 lane

NOTE: The center riser expansion slot configuration varies according to the riser installed on your computer.

Center Riser

PCI-X
 PCI Express x8

one full height, full length 3.3 V, 64 bit, 100 MHz
 one full height, full length x8 lane

NOTE: The center riser expansion slot configuration varies according to the riser installed on your computer.

Outer riser

PCI Express x16 (two slots)

two full height, full length x16 lane

PCI

Connector
 Connector Size
 Connector data width

one
 124 pins
 32 bits

PCI-X

Connector
 Connector Size
 Connector data width (Maximum)

one
 188 pins
 64 bits

PCI-X8

Connector
 Connector Size
 Connector data width (Maximum)

one x16 (supports x8, x4 and x1 cards)
 164 pins
 x8 PCI Express lane

PCI Express x16:

Connector
 Connector Size
 Connector data width (Maximum)

two x16
 164 pins
 x16 PCI Express lane

Connectors

External connectors

USB	two front panel USB 2.0-compliant connectors three back panel USB 2.0-compliant connectors
Network adapter (NIC)	two back panel RJ-45 connectors (for integrated 1-GB NICs)
Video	back panel DVI connector (on graphics card) back panel VGA connector (on graphics card)
PS/2 (keyboard and mouse)	two back panel 6-pin mini-DIN
Serial	two back panel 9-pin connectors (16550Compatible)
Audio	two back panel connectors (line-in and line-out)

System board connectors

Serial ATA	three 7-pin connectors
Internal USB	one 10-pin connector
Fans	two 4-pin connectors two 5-pin connectors
PCI (on center riser)	one 124-pin connector
PCI-X (on center riser)	one 188-pin connector
PCI Express x8 (on center riser)	one 164-pin connector
PCI Express x16 (on outer riser)	two 164-pin connector
Front control panel	one 20-pin connector
Front panel USB	one 10-pin connector
Processor	two 775-pin connectors
Memory	four 240-pin connectors
Power 12 V	three 6-pin connectors
Power (main)	one 24-pin connector

Controls and Lights

Front panel
Power button

push button — Press the power button to turn on the computer.

NOTICE: To avoid losing data, do not turn off the computer by pressing the power button. Instead, perform an operating system shutdown.

Power light

green light — Blinking green in sleep state; solid green in normal power-on state.

amber light — Blinking amber indicates that an internal power problem may exist; solid amber indicates that a device may be malfunctioning or incorrectly installed.

Network activity lights (2)

green blinking light — Flashes when the computer is transmitting or receiving network data. A high volume of network traffic may make this light appear to be in a steady *on* state.

Hard drive activity light

green light — The hard drive activity light is on when the computer reads data from or writes data to the hard drive. The light may also be on when a device such as an optical drive is in operation.

Back panel
Link integrity light (on integrated network adapter)

The network link light is on when a good connection exists between a 10-Mbps, 100-Mbps, or 1000-Mbps (1-Gbps) network and the computer.

- green — A good connection exists between a 10-Mbps network and the computer.
- orange — A good connection exists between a 100-Mbps network and the computer.
- yellow — A good connection exists between a 1000-Mbps (1-Gb) network and the computer.
- off — The computer is not detecting a physical connection to the network.

NOTE: ASF 2.0 support and wakeup on LAN are not available on the secondary NIC and are not available on the primary NIC in teaming mode.

Network activity light (on integrated network adapter)

yellow blinking light — Flashes when computer is transmitting or receiving network data. A high volume of network traffic may make this light appear to be in a steady *on* state.

Power

DC power supply
Wattage

750 W

Maximum heat dissipation

For 750-W power supply: 2559 BTU/hr

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

Voltage

Autoranging power supply: 90–240 VAC at 50–60 Hz

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

Coin cell battery

3-V CR2032 lithium coin

Physical

Height

8.656 cm (3.40 inches)

Width

42.62 cm (16.78 inches)

Depth: With front bezel

68.45 cm (26.95 inches)

Without front bezel

73.25 cm (28.84 inches)

Weight: With front bezel

20.85 kg (45.97 lb)

Without front bezel

20.45 kg (45.08 lb)

Environmental

Temperature

Operating 10° to 35°C (50° to 95°F) with a maximum temperature gradation of 10°C per hour

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

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

Relative humidity
 Operating 20% to 80% (noncondensing)
 20% to 80% (noncondensing) with a maximum humidity gradation of 10% per hour

Storage 5% to 95% (noncondensing) with a maximum humidity gradation of 10% per hour

Maximum wet bulb (MWB) 38°C under any conditions

Maximum vibration

Operational random vibration 0.26 G at 5–350 Hz for 2 minutes per side (operational sides only)

Storage 0.5 G at 3–200 Hz for 15 minutes

Maximum shock

Operating 40 G +/- 5% with pulse duration of 2 msec +/- 10% (equivalent to 51 cm/sec [20 inches/sec])

Storage 105 G +/- 5% with pulse duration of 2 msec +/- 10% (equivalent to 127 cm/sec [50 inches/sec])

Altitude

Operating -16 to 3048 m (-50 to 10,000 ft)

Storage -16 to 10,600 m (-50 to 35,000 ft)

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

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