Studio Slim

SETUP GUIDE

Model DCSLA
Notes, Notices, and Cautions

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

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

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

If you purchased a Dell™ n Series computer, any references in this document to Microsoft® Windows® operating systems are not applicable.

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Setting Up Your Studio Slim 540s

This section provides information about setting up your Studio Slim 540s and connecting peripherals.

**Before Setting Up Your Computer**

When positioning your computer, ensure that you allow easy access to a power source, adequate ventilation, and a level surface to place your computer.

Restricting airflow around your Studio Slim 540s may cause it to overheat. To prevent overheating ensure that you leave at least 10.2 cm (4 inches) at the back of the computer and a minimum of 5.1 cm (2 inches) on all other sides. You should never place your computer in an enclosed space, such as a cabinet or drawer when it is powered on.
Connect the Display

Your computer uses one of two different connectors for connecting the display. The HDMI connector is a high-performance digital connector that carries both video and audio signals for displays such as TVs and monitors with integrated speakers. The VGA connector carries only video signals for displays such as monitors and projectors.

-OR-

NOTE: A DVI connector may be available on your computer if you purchased an optional discrete graphics card.
**Connect the Video Cable to the Display**

Check your TV or monitor to see which type of connectors are available. Refer to the following table when identifying the connectors on your display to select the connection type you will use.

<table>
<thead>
<tr>
<th>HDMI</th>
<th>VGA</th>
<th>DVI</th>
</tr>
</thead>
</table>

You can connect to the display using the following connectors available on your computer: the VGA connector, the HDMI connector, or the DVI connector (optional).

**Connect Using the VGA Connector**

Connect the display using the VGA cable (which usually has blue connectors at both ends).

**NOTE:** You can purchase a DVI-to-VGA adapter from the Dell website at [dell.com](http://dell.com).

If your display has a DVI connector, use the VGA cable (with blue connectors at both ends) with a DVI-to-VGA adapter (white connector).
Setting Up Your Studio Slim 540s

**Connect Using the HDMI Connector**
Connect the display using an HDMI cable.

![HDMI connector image]

**Connect Using the DVI Connector (Optional)**
Connect the display using a DVI cable.

![DVI connector image]

**NOTE:** You can purchase additional HDMI and DVI cables from the Dell website at dell.com.

**Connect the Keyboard and Mouse**
Connect your keyboard and mouse to the USB connectors on the back panel of the computer.

![Back panel with USB connectors image]
Connect the Network Cable (Optional)

A network connection is not required to complete your computer setup, but if you have an existing network or Internet connection that uses a cable connection (such as a home cable modem or Ethernet jack), you can connect it now. Use only an Ethernet cable (RJ45 connector). Do not plug a telephone cable (RJ11 connector) into the network connector.

To attach your computer to a network or broadband device, connect one end of a network cable to either a network port or a broadband device. Connect the other end of the network cable to the network adapter connector on the back panel of your computer. A click indicates that the network cable has been securely attached.
Setting Up Your Studio Slim 540s

Connect the Power Cables for Your Display and Computer

Press the Power Buttons on Your Computer and Display
Windows Vista® Setup

To set up Windows Vista for the first time, follow the instructions on the screen. These steps are mandatory and may take up to 15 minutes to complete. The screens will take you through several procedures including accepting license agreements, setting preferences, and setting up an Internet connection.

⚠️ NOTICE: Do not interrupt the operating system’s setup process. Doing so may render your computer unusable.

Connect to the Internet (Optional)

💡 NOTE: ISPs and ISP offerings vary by country.

To connect to the Internet, you need an external modem or network connection and an Internet service provider (ISP). Your ISP will offer one or more of the following Internet connection options:

- DSL connections that provide high-speed Internet access through your existing telephone line or cellular telephone service. With a DSL connection, you can access the Internet and use your telephone on the same line simultaneously.
- Cable modem connections that provide high-speed Internet access through your local cable TV line.
- Satellite modem connections that provide high-speed Internet access through a satellite television system.
- Dial-up connections that provide Internet access through a telephone line. Dial-up connections are considerably slower than DSL and cable (or satellite) modem connections. Your computer does not have an integrated modem. An optional USB modem must be used for dial-up service with your computer.
Setting Up Your Studio Slim 540s

- Wireless LAN connections that provide Internet access using WiFi 802.11 technology. Wireless LAN support requires optional internal components that may or may not be installed in your computer based on decisions made at the time of purchase.

**NOTE:** If an external USB modem or WLAN adapter is not part of your original order, you can purchase one from the Dell website at [dell.com](http://dell.com).

**Setting Up a Wired Connection**

If you are using a dial-up connection, connect the telephone line to the external USB modem (optional) and to the telephone wall jack before you set up your Internet connection. If you are using a DSL or cable/satellite modem connection, contact your ISP or cellular telephone service for setup instructions.

**Setting Up a Wireless Connection**

Before you can use your wireless Internet connection, you need to connect to your wireless router. To set up your connection to a wireless router:

1. Save and close any open files, and exit any open programs.
2. Click **Start → Connect To**.
3. Follow the instructions on the screen to complete the setup.

**Setting Up Your Internet Connection**

To set up an Internet connection with a provided 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 following section.

**NOTE:** If you cannot connect to the Internet but have successfully connected in the past, the ISP might have a service outage. Contact your ISP to check the service status, or try connecting again later.

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

1. Save and close any open files, and exit any open programs.

2. Click **Start** ➔ **Control Panel**.

3. Under **Network and Internet**, click **Connect to the Internet**.

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

4. Click either **Broadband (PPPoE)** or **Dial-up**, depending on how you want to connect:
   a. Choose **Broadband** if you will use a DSL, satellite modem, cable TV modem, or Bluetooth® wireless technology connection.
   b. Choose **Dial-up** if you will use an optional USB 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.
Using Your Studio Slim 540s

Your computer has indicators, buttons, and features that provide information at-a-glance and time-saving shortcuts for common tasks.

Front View Features

1 **Service Tag** — Use the Service Tag (located on top of the chassis towards the back) to identify your computer when you access the Dell Support website or call technical support.

2 **Eject button for Optical drive** — Press here to open/close the CD/DVD/Blu-ray Disc™ drive.

3 **Optical drive panel** — This panel covers the CD/DVD/Blu-ray Disc™ drive.

4 **FlexDock open/close** — Press here to open/close the FlexDock.

5 **FlexDock (optional)** — Can contain an optional Media Card Reader.
6 **Power button and light** — Turns the power on or off when pressed. The light in the center of this button indicates the power state:

- Blinking white — the computer is in sleep state.
- Solid white — the computer is in power-on state.
- Blinking amber — there may be a problem with the system board.
- Solid amber — the system board cannot start initialization. There may be a problem with either the system board or power supply.

7 **USB 2.0 connectors (2)** — Connects USB devices that are connected occasionally, such as memory keys, digital cameras, and MP3 players.

8 **Headphone connector** — Connects to headphones.

   ☑ **NOTE:** To connect to a powered speaker or sound system, use the audio out or S/PDIF connector on the back of your computer.

9 **Microphone or line-in connector** — Connects to a microphone for voice or to an audio cable for audio input.

10 **Hard drive activity light** — Turns on when the computer reads or writes data. A blinking blue light indicates hard drive activity.

   ☑ **NOTICE:** To avoid loss of data, never turn off the computer while the hard drive activity light is blinking.
Using Your Studio Slim 540s

Using the Optical Drive
Place the disc in the center of the disc tray, with the label facing outwards and gently push the disc tray.

The drive automatically pulls the disc in and begins reading its content.

To eject a disc from the drive, press the eject button. A few seconds later the disc ejects.
Back View Features

1 **Back panel connectors** — Plug USB, audio, and other devices into the appropriate connector. For more information, see “Back Panel Connectors” on page 18.

2 **Card slots** — Access connectors for any installed PCI and PCI Express cards.

3 **Power supply LED** — Indicates power availability for the power supply.

   **NOTE:** May or may not be available on your computer.

4 **Power connector** — Insert the power cable.
**Back Panel Connectors**

1. **IEEE 1394 connector** — Connects to high-speed serial multimedia devices such as digital video cameras.

2. **Network connector and light** — Connects your computer to a network or broadband device. The network activity light flashes when the computer is transmitting or receiving data. A high volume of network traffic may make this light appear to be in a steady “on” state.

3. **Back L/R surround connector** — Connects to multichannel-capable speakers.

4. **Center/subwoofer connector** — Connects to a subwoofer.

5. **Line-in connector** — Connects to a microphone for voice or audio input into a sound or telephony program. On computers with a sound card, use the connector on the card.
6 **Front L/R line-out connector** — Connects to headphones and speakers with integrated amplifiers.
   On computers with a sound card, use the connector on the card.

7 **Microphone connector** — Connects to a record/playback device such as a microphone, cassette player, CD player, or VCR.
   On computers with a sound card, use the connector on the card.

8 **Side L/R surround connector** — Connects to computers with 7.1 speakers, and provides enhanced surround audio.
   On computers with a sound card, use the connector on the card.

9 **HDMI 1.2 connector** — Connects to a TV for both audio and video signals.
   **NOTE:** For a monitor without built-in speakers, only the video signals will be read.

10 **USB 2.0 connector (4)** — Connects USB devices, such as a mouse, keyboard, printer, external drive, or MP3 player.

11 **VGA connectors** — Connects to a monitor or projector for video signals.

12 **S/PDIF connectors** — Connects to amplifiers and TVs for digital audio through coaxial digital cables. This format carries an audio signal without going through an analog audio conversion process.
Software Features

NOTE: For more information about the features described in this section, see the Dell Technology Guide on your hard drive or on the Dell Support website at support.dell.com.

Productivity and Communication

You can use your computer to create presentations, brochures, greeting cards, fliers, and spreadsheets. You can also edit and view digital photographs and images. Check your purchase order for software installed on your computer.

After connecting to the Internet, you can access websites, setup an e-mail account, upload and download files, and so on.

Entertainment and Multimedia

You can use your computer to watch videos, play games, create your own CDs, and listen to music and radio stations. Your optical disc drive may support multiple disc media formats including CDs, Blu-ray Discs (if the option is selected at the time of purchase), and DVDs.

You can download or copy pictures and video files from portable devices, such as digital cameras and cell phones. Optional software applications enable you to organize and create music and video files that can be recorded to disc, saved on portable products such as MP3 players and handheld entertainment devices, or played and viewed directly on connected TVs, projectors, and home theater equipment.

Customizing the Desktop

You can customize your desktop to change the appearance, resolution, wallpaper, screensaver, and so on by accessing the Personalize appearance and sounds window.

To access the display properties window:

1. Right-click an open area of the desktop.
2. Click Personalize, to open the Personalize appearance and sounds window and learn more about your customization options.
Customizing Your Energy Settings

You can use the power options in your operating system to configure the power settings on your computer. Microsoft® Windows Vista® provides three default options:

- **Balanced** — This power option offers full performance when you need it and saves power during periods of inactivity.

- **Power saver** — This power option saves power on your computer by reducing system performance to maximize the life of the computer and by reducing the amount of energy consumed by your computer over its lifetime.

- **High performance** — This power option provides the highest level of system performance on your computer by adapting processor speed to your activity and by maximizing system performance.

Backing Up Your Data

It is recommended that you periodically back up files and folders on your computer. To back up files:

1. Click Start  ➔ Control Panel ➔ System and Maintenance ➔ Welcome Center ➔ Transfer files and settings.
2. Click Back up files or Back up computer.
3. Click Continue on Your User Account Control dialog box and follow the instructions in the Back up Files wizard.
Solving Problems

This section provides troubleshooting information for your computer. If you cannot solve your problem using the following guidelines, see “Using Support Tools” on page 28 or “Contacting Dell” on page 42.

⚠️ CAUTION: Only trained service personnel should remove the computer cover. See the Service Manual on the Dell Support website at support.dell.com for advanced service and troubleshooting instructions.

⚠️ CAUTION: Before working inside your computer, read the safety information that shipped with your computer. For additional safety best practice information, see the Regulatory Compliance Homepage on www.dell.com at the following location: www.dell.com/regulatory_compliance.

Network Problems

Wireless Connections

If the network connection is lost — The wireless router is offline or wireless has been disabled on the computer.

- Check your wireless router to ensure it is powered on and connected to your data source (cable modem or network hub).
- Re-establish your connection to the wireless router:
  a. Save and close any open files, and exit any open programs.
  b. Click Start → Connect To.
  c. Follow the instructions on the screen to complete the setup.
Wired Connections

If the network connection is lost — The cable is loose or damaged.

- Check the cable to ensure it is plugged in and not damaged.

The link integrity light on the integrated network connector lets you verify that your connection is working and provides information on the status:

- Green — A good connection exists between a 10/100-Mbps network and the computer.
- Orange — A good connection exists between a 1000-Mbps network and the computer.
- Off (no light) — The computer is not detecting a physical connection to the network.

**NOTE:** The link integrity light on the network connector is only for the wired cable connection. The link integrity light does not provide status for wireless connections.

Power Problems

If the power light is off — The computer is either turned off or is not receiving power.

- Reseat the power cable into both the power connector on the computer and the electrical outlet.
- If the computer is plugged into a power strip, ensure that the power strip is plugged into an electrical outlet and that the power strip is turned on. Also bypass power protection devices, power strips, and power extension cables to verify that the computer turns on properly.
- Ensure that the electrical outlet is working by testing it with another device, such as a lamp.
If the power light is solid white and the computer is not responding — The display may not be connected or powered on. Ensure that the display is properly connected and then turn it off, then back on.

If the power light is blinking white — The computer is in standby mode. Press a key on the keyboard, move the pointer on the trackpad or a connected mouse, or press the power button to resume normal operation.

If the power light is solid amber — The computer has a power problem or an internal device malfunction. For assistance contact Dell, see “Contacting Dell” on page 42.

If the power light is blinking amber — The computer is receiving electrical power, but a device might be malfunctioning or incorrectly installed. You may have to remove and then reinstall the memory modules (for information on removing and replacing memory modules, see the Service Manual on the Dell Support website at support.dell.com).

If you encounter interference that hinders reception on your computer — An unwanted signal is creating interference by interrupting or blocking other signals. Some possible causes of interference are:

- Power, keyboard, and mouse extension cables.
- Too many devices connected to a power strip.
- Multiple power strips connected to the same electrical outlet.

Memory Problems

If you receive an insufficient memory message —

- Save and close any open files and exit any open programs you are not using to see if that resolves the problem.
- See the software documentation for minimum memory requirements. If necessary, install additional memory (see the Service Manual on the Dell Support website at support.dell.com).
• Reseat the memory modules (see the Service Manual on the Dell Support website at support.dell.com) to ensure that your computer is successfully communicating with the memory.

If you experience other memory problems —
• Ensure that you are following the memory installation guidelines (see the Service Manual on the Dell Support website at support.dell.com).
• Check if the memory module is compatible with your computer. Your computer supports DDR2 memory. For more information about the type of memory supported by your computer, see “Specifications” on page 46.
• Run the Dell Diagnostics (see “Dell Diagnostics” on page 31).
• Reseat the memory modules (see the Service Manual on the Dell Support website at support.dell.com) to ensure that your computer is successfully communicating with the memory.

• Lockups and Software Problems

If the computer does not start up — Ensure that the power cable is firmly connected to the computer and to the electrical outlet.

If a program stops responding — End the program:
1. Press <Ctrl><Shift><Esc> simultaneously.
2. Click Applications.
3. Click the program that is no longer responding.
4. Click End Task.

If a program crashes repeatedly — Check the software documentation. If necessary, uninstall and then reinstall the program.

NOTE: Software usually includes installation instructions in its documentation or on CD.
Solving Problems

If the computer stops responding —

┄ NOTICE: You might lose data if you are unable to perform an operating system shutdown.

Turn the computer off. If you are unable to get a response by pressing a key on your keyboard or moving your mouse, press and hold the power button for at least 8 to 10 seconds until the computer turns off. Then restart your computer.

If a program is designed for an earlier Microsoft® Windows® operating system —

Run the Program Compatibility Wizard. The Program Compatibility Wizard configures a program so that it runs in an environment similar to non-Windows Vista operating system environments.

1. Click Start → Control Panel → Programs → Use an older program with this version of Windows.
2. In the welcome screen, click Next.
3. Follow the instructions on the screen.

If a solid blue screen appears — Turn the computer off. If you are unable to get a response by pressing a key on your keyboard or moving your pointer or mouse, press and hold the power button for at least 8 to 10 seconds until the computer turns off. Then restart your computer.

If you have other software problems —

• Back up your files immediately.
• Use a virus-scanning program to check the hard drive or CDs.
• Save and close any open files or programs and shut down your computer through the Start menu.
• Check the software documentation or contact the software manufacturer for troubleshooting information:
  – Ensure that the program is compatible with the operating system installed on your computer.
– Ensure that your computer meets the minimum hardware requirements needed to run the software. See the software documentation for information.

– Ensure that the program is installed and configured properly.

– Verify that the device drivers do not conflict with the program.

– If necessary, uninstall and then reinstall the program.
Using Support Tools

Dell Support Center

The Dell Support Center helps you find the service, support, and system-specific information you need. For more information about Dell Support Center and available support tools, click the Services tab at support.dell.com.

Click the icon in the taskbar to run the application. The home page provides links to access:

- Self Help (Troubleshooting, Security, System Performance, Network/Internet, Backup/Recovery, and Windows Vista)
- Alerts (technical support alerts relevant to your computer)

- Assistance from Dell (Technical Support with DellConnect™, Customer Service, Training and Tutorials, How-To Help with Dell on Call, and Online Scan with PCCheckUp)
- About Your System (System Documentation, Warranty Information, System Information, and Upgrades & Accessories)

The top of the Dell Support Center home page displays your system’s model number along with its service tag and express service code.

For more information about the Dell Support Center, see the Dell Technology Guide on your hard drive or on the Dell Support website at support.dell.com.

⚠️ CAUTION: To guard against the likelihood of electric shock, laceration by moving fan blades or other unexpected injuries, always unplug your computer from the electrical outlet before removing the cover.
System Messages

If your computer has an issue or error, it may display a System Message that will help you identify the cause and action needed to resolve the issue.

NOTE: If the message you received is not listed in the following examples, see the documentation for either the operating system or the program that was running when the message appeared. Alternatively you could see the Service Manual on the Dell Support website at support.dell.com or see “Contacting Dell” on page 42 for assistance.

Alert! Previous attempts at booting this system have failed at checkpoint [nnnn]. For help in resolving this problem, please note this checkpoint and contact Dell Technical Support — The computer failed to complete the boot routine three consecutive times for the same error (see “Contacting Dell” on page 42 for assistance).

CMOS checksum error — Possible motherboard failure or RTC battery low. Replace the battery. See the Service Manual on the Dell Support website at support.dell.com or see “Contacting Dell” on page 42 for assistance.

CPU fan failure — CPU fan has failed. Replace the CPU fan. See the Service Manual on the Dell Support website at support.dell.com.

Hard-disk drive failure — Possible hard disk drive failure during HDD POST (see “Contacting Dell” on page 42 for assistance).

Hard-disk drive read failure — Possible hard disk drive failure during HDD boot test (see “Contacting Dell” on page 42 for assistance).

Keyboard failure — Keyboard failure or loose cable.

No boot device available — No bootable partition on hard disk drive, the hard disk drive cable is loose, or no bootable device exists.
Using Support Tools

- If the hard drive is your boot device, ensure that the cables are connected and that the drive is installed properly and partitioned as a boot device.

- Enter system setup and ensure that the boot sequence information is correct (see the Service Manual on the Dell Support website at support.dell.com).

**No timer tick interrupt** — A chip on the system board might be malfunctioning or motherboard failure (see the Service Manual on the Dell Support website at support.dell.com or see “Contacting Dell” on page 42).

**USB over current error** — Disconnect the USB device. Your USB device needs more power for it to function properly. Use an external power source to connect the USB device, or if your device has two USB cables, connect both of them.

**NOTICE - Hard Drive SELF MONITORING SYSTEM** has reported that a parameter has exceeded its normal operating range. Dell recommends that you back up your data regularly. A parameter out of range may or may not indicate a potential hard drive problem — S.M.A.R.T error, possible hard disk drive failure. This feature can be enabled or disabled in the BIOS setup (see “Contacting Dell” on page 42 for assistance).

**Hardware Troubleshooter**

If a device is either not detected during the operating system setup or is detected but incorrectly configured, you can use the Hardware Troubleshooter to resolve the incompatibility.

To start the Hardware Troubleshooter:

1. Click **Start** → Help and Support.

2. Type **hardware troubleshooter** in the search field and press <Enter> to start the search.
3. In the search results, select the option that best describes the problem and follow the remaining troubleshooting steps.

**Dell Diagnostics**

If you experience a problem with your computer, perform the checks in “Lockups and Software Problems” on page 46 and run the Dell Diagnostics before you contact Dell for technical assistance.

It is recommended that you print these procedures before you begin.

- **NOTE:** Dell Diagnostics works only on Dell computers.

- **NOTE:** The *Drivers and Utilities* media is optional and may not ship with your computer.

See the System Setup section in the *Service Manual* to review your computer’s configuration information, and ensure that the device that you want to test displays in the system setup program and is active.

Start the Dell Diagnostics from your hard drive or from the *Drivers and Utilities* media.

**Starting Dell Diagnostics From Your Hard Drive**

The Dell Diagnostics is located on a hidden diagnostic utility partition on your hard drive.

- **NOTE:** If your computer cannot display a screen image, see “Contacting Dell” on page 42.

1. Ensure that the computer is connected to an electrical outlet that is known to be working properly.

2. Turn on (or restart) your computer.

3. When the DELL™ logo appears, press <F12> immediately. Select *Diagnostics* from the boot menu and press <Enter>.

- **NOTE:** If you wait too long and the operating system logo appears, continue to wait until you see the Microsoft® Windows® desktop; then, shut down your computer and try again.
Using Support Tools

**NOTE:** If you see a message stating that no diagnostics utility partition has been found, run the Dell Diagnostics from the *Drivers and Utilities* media.

4. Press any key to start the Dell Diagnostics from the diagnostics utility partition on your hard drive.

**Starting Dell Diagnostics From the Drivers and Utilities Media**

1. Insert the *Drivers and Utilities* media.
2. Shut down and restart the computer. When the DELL logo appears, press <F12> immediately.

**NOTE:** If you wait too long and the operating system logo appears, continue to wait until you see the Microsoft® Windows® desktop; then, shut down your computer and try again.

**NOTE:** The next steps change the boot sequence for one time only. On the next start-up, the computer boots according to the devices specified in the system setup program.

3. When the boot device list appears, highlight CD/DVD/CD-RW and press <Enter>.
4. Select the *Boot from CD-ROM* option from the menu that appears and press <Enter> to proceed.
5. Type 1 to start the CD menu and press <Enter> to proceed.
6. Select *Run the 32 Bit Dell Diagnostics* from the numbered list. If multiple versions are listed, select the version appropriate for your computer.
7. When the Dell Diagnostics *Main Menu* appears, select the test you want to run.
System Recovery Options

You can restore your operating system in the following ways:

• System Restore returns your computer to an earlier operating state without affecting data files. Use System Restore as the first solution for restoring your operating system and preserving data files.

• Dell Factory Image Restore returns your hard drive to the operating state it was in when you purchased the computer. This procedure permanently deletes all data on the hard drive and removes any programs installed after you received the computer. Use Dell Factory Image Restore only if System Restore did not resolve your operating system problem.

• If you received an Operating System disc with your computer, you can use it to restore your operating system. However, using the Operating System disc also deletes all data on the hard drive. Use the disc only if System Restore did not resolve your operating system problem.

System Restore

The Windows operating systems provide a System Restore option which allows you to return your computer to an earlier operating state (without affecting data files) if changes to the hardware, software, or other system settings have left the computer in an undesirable operating state. Any changes that System Restore makes to your computer are completely reversible.

⚠️ NOTICE: Make regular backups of your data files. System Restore does not monitor your data files or recover them.

>Note: The procedures in this document were written for the Windows default view, so they may not apply if you set your Dell™ computer to the Windows Classic view.
System Recovery Options

Starting System Restore

1. Click Start Windows10.
2. In the Start Search box, type System Restore and press <Enter>.

⚠️ NOTE: The User Account Control window may appear. If you are an administrator on the computer, click Continue; otherwise, contact your administrator to continue the desired action.

3. Click Next and follow the remaining prompts on the screen.

In the event that System Restore did not resolve the issue, you may undo the last system restore.

Undoing the Last System Restore

⚠️ NOTE: Before you undo the last system restore, save and close all open files, and exit any open programs. Do not alter, open, or delete any files or programs until the system restoration is complete.

1. Click Start Windows10.
2. In the Start Search box, type System Restore and press <Enter>.
3. Click Undo my last restoration and click Next.

Dell Factory Image Restore

⚠️ NOTICE: Using Dell Factory Image Restore permanently deletes all data on the hard drive and removes any programs or drivers installed after you received your computer. If possible, back up the data before using this option. Use Dell Factory Image Restore only if System Restore did not resolve your operating system problem.

⚠️ NOTE: Dell Factory Image Restore may not be available in certain countries or on certain computers.

Use Dell Factory Image Restore only as the last method to restore your operating system. These options restore your hard drive to the
operating state it was in when you purchased the computer. Any programs or files added since you received your computer—including data files—are permanently deleted from the hard drive. Data files include documents, spreadsheets, e-mail messages, digital photos, music files, and so on. If possible, back up all data before using Factory Image Restore.

**Dell Factory Image Restore**

1. Turn on the computer. When the Dell logo appears, press <F8> several times to access the **Vista Advanced Boot Options** Window.

2. Select **Repair Your Computer**.

3. The **System Recovery Options** window appears.

4. Select a keyboard layout and click **Next**.

5. To access the recovery options, log on as a local user. To access the command prompt, type **administrator** in the **User name** field, then click **OK**.

6. Click **Dell Factory Image Restore**. The **Dell Factory Image Restore** welcome screen appears.

    **NOTE:** Depending upon your configuration, you may need to select **Dell Factory Tools**, then **Dell Factory Image Restore**.

7. Click **Next**. The **Confirm Data Deletion** screen appears.

    **NOTICE:** If you do not want to proceed with Factory Image Restore, click **Cancel**.

8. Click the checkbox to confirm that you want to continue reformatting the hard drive and restoring the system software to the factory condition, then click **Next**.

The restore process begins and may take five or more minutes to complete. A message appears when the operating system and factory-installed applications have been restored to factory condition.

9. Click **Finish** to reboot the system.
Operating System Reinstallation

Before you Begin

If you are considering reinstalling the Windows operating system to correct a problem with a newly installed driver, first try using Windows Device Driver Rollback. If Device Driver Rollback does not resolve the problem, then use System Restore to return your operating system to the operating state it was in before you installed the new device driver. See “System Restore” on page 33.

NOTICE: Before performing the installation, back up all data files on your primary hard drive. For conventional hard drive configurations, the primary hard drive is the first drive detected by the computer.

To reinstall Windows, you need the following items:

• Dell Operating System media
• Dell Drivers and Utilities media

NOTE: The Dell Drivers and Utilities media contains drivers that were installed during the assembly of the computer. Use the Dell Drivers and Utilities media to load any required drivers. Depending on the region from which you ordered your computer, or whether you requested the media, the Dell Drivers and Utilities media and Operating System media may not ship with your computer.

Reinstalling Windows Vista

The reinstallation process can take 1 to 2 hours to complete. After you reinstall the operating system, you must also reinstall the device drivers, virus protection program, and other software.

1. Save and close any open files and exit any open programs.
2. Insert the Operating System media.
3. Click Exit if the Install Windows message appears.
4. Restart the computer.
5. When the DELL logo appears, press <F12> immediately.

⚠️ **NOTE:** If you wait too long and the operating system logo appears, continue to wait until you see the Microsoft® Windows® desktop; then, shut down your computer and try again.

⚠️ **NOTE:** The next steps change the boot sequence for one time only. On the next start-up, the computer boots according to the devices specified in the system setup program.

6. When the boot device list appears, highlight CD/DVD/CD-RW Drive and press <Enter>.
7. Press any key to **Boot from CD-ROM.** Follow the instructions on the screen to complete the installation.
Getting Help

If you experience a problem with your computer, you can complete the following steps to diagnose and troubleshoot the problem:

1. See “Solving Problems” on page 22 for information and procedures that pertain to the problem your computer is experiencing.

2. See “Dell Diagnostics” on page 31 for procedures on how to run Dell Diagnostics.

3. Fill out the “Diagnostic Checklist” on page 42.

4. Use Dell’s extensive suite of online services available at Dell Support (support.dell.com) for help with installation and troubleshooting procedures. See “Online Services” on page 39 for a more extensive list of Dell Support online.

5. If the preceding steps have not resolved the problem, see “Contacting Dell” on page 42.

**NOTE:** Call Dell Support from a telephone near or at the computer so that the support staff can assist you with any necessary procedures.

**NOTE:** Dell’s Express Service Code system may not be available in all countries.

When prompted by Dell’s automated telephone system, enter your Express Service Code to route the call directly to the proper support personnel. If you do not have an Express Service Code, open the Dell Accessories folder, double-click the Express Service Code icon, and follow the directions.

**NOTE:** Some of the following services are not always available in all locations outside the continental U.S. Call your local Dell representative for information on availability.
Technical Support and Customer Service

Dell’s support service is available to answer your questions about Dell hardware. Dell’s support staff uses computer-based diagnostics to provide fast, accurate answers.

To contact Dell’s support service, see “Before You Call” on page 41 and then see the contact information for your region or go to support.dell.com.

DellConnect™

DellConnect is a simple online access tool that allows a Dell service and support associate to access your computer through a broadband connection, diagnose your problem, and repair it all under your supervision. For more information, go to support.dell.com/dellconnect.

Online Services

You can learn about Dell products and services on the following websites:

- www.dell.com
- www.dell.com/ap (Asian/Pacific countries only)
- www.dell.com/jp (Japan only)
- www.euro.dell.com (Europe only)
- www.dell.com/la (Latin American and Caribbean countries)
- www.dell.ca (Canada only)

You can access Dell Support through the following websites and e-mail addresses:

Dell Support websites

- support.dell.com
- support.jp.dell.com (Japan only)
- support.euro.dell.com (Europe only)
Getting Help

Dell Support e-mail addresses

- mobile_support@us.dell.com
- support@us.dell.com
- la-techsupport@dell.com (Latin America and Caribbean countries only)
- apsupport@dell.com (Asian/Pacific countries only)

Dell Marketing and Sales e-mail addresses

- apmarketing@dell.com (Asian/Pacific countries only)
- sales_canada@dell.com (Canada only)

Anonymous file transfer protocol (FTP)

- ftp.dell.com
  Log in as user: anonymous, and use your e-mail address as your password.

Product Information

If you need information about additional products available from Dell, or if you would like to place an order, visit the Dell website at www.dell.com. For the telephone number to call for your region or to speak to a sales specialist, see “Contacting Dell” on page 42.

Returning Items for Repair Under Warranty or for Credit

Prepare all items being returned, whether for repair or credit, as follows:

1. Call Dell to obtain a Return Material Authorization Number, and write it clearly and prominently on the outside of the box.
2. For the telephone number to call for your region, see “Contacting Dell” on page 42.
3. Include a copy of the invoice and a letter describing the reason for the return.
4. Include a copy of the Diagnostics Checklist (see “Diagnostic Checklist” on page 42), indicating the tests that you have run and any error messages reported by the Dell Diagnostics (see “Dell Diagnostics” on page 31).

5. Include any accessories that belong with the item(s) being returned (power cables, software, guides, and so on) if the return is for credit.

6. Pack the equipment to be returned in the original (or equivalent) packing materials.

7. You are responsible for paying shipping expenses. You are also responsible for insuring any product returned, and you assume the risk of loss during shipment to Dell. Collect On Delivery (C.O.D.) packages are not accepted.

8. Returns that are missing any of the preceding requirements will be refused at Dell’s receiving dock and returned to you.

Before You Call

**NOTE:** Have your Express Service Code ready when you call. The code helps Dell’s automated-support telephone system direct your call more efficiently. You may also be asked for your Service Tag (located on the top of your computer towards the back).

Remember to fill out the following Diagnostics Checklist. If possible, turn on your computer before you call Dell for assistance and call from a telephone at or near the computer. You may be asked to type some commands at the keyboard, relay detailed information during operations, or try other troubleshooting steps possible only at your computer. Ensure that your computer’s documentation is available.
Getting Help

Diagnostic Checklist

• Name:
• Date:
• Address:
• Phone number:
• Service Tag (bar code on the top of your computer towards the back):
• Express Service Code:
• Return Material Authorization Number (if provided by Dell support technician):
• Operating system and version:
• Devices:
• Expansion cards:
• Are you connected to a network? Yes/No
• Network, version, and network adapter:
• Programs and versions:

See your operating system documentation to determine the contents of the computer’s start-up files. If the computer is connected to a printer, print each file. Otherwise, record the contents of each file before calling Dell.

• Error message, beep code, or diagnostic code:
• Description of problem and troubleshooting procedures you performed:

Contacting Dell

For customers in the United States, call 800-WWW-DELL (800-999-3355).

NOTE: If you do not have an active Internet connection, you can find contact information on your purchase invoice, packing slip, bill, or Dell product catalog.

Dell provides several online and telephone-based support and service options. Availability varies by country and product, and some services may not be available in your area.
To contact Dell for sales, technical support, or customer service issues:


2. Verify your country or region in the Choose A Country/Region drop-down menu at the bottom of the page.

3. Click Contact Us on the left side of the page.

4. Select the appropriate service or support link based on your need.

5. Choose the method of contacting Dell that is convenient for you.
## Finding More Information and Resources

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<tr>
<th>If you need to:</th>
<th>See:</th>
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<tr>
<td>reinstall your operating system.</td>
<td>your operating system disc.</td>
</tr>
<tr>
<td>run a diagnostic program for your computer, reinstall desktop system software,</td>
<td>the <em>Drivers and Utilities</em> disc.</td>
</tr>
<tr>
<td>or update drivers for your computer, and readme files.</td>
<td><strong>NOTE:</strong> Drivers and documentation updates can be found on the Dell™ Support website at <a href="http://support.dell.com">support.dell.com</a>.</td>
</tr>
<tr>
<td>learn more about your operating system, maintaining peripherals, RAID, Internet,</td>
<td>the <em>Dell Technology Guide</em> available on your hard drive.</td>
</tr>
<tr>
<td>Bluetooth®, networking, and e-mail.</td>
<td><strong>NOTE:</strong> In some countries, opening and replacing parts of your computer may void your warranty. Check your warranty and return policies before working inside your computer.</td>
</tr>
<tr>
<td>upgrade your computer with new or additional memory, or a new hard drive.</td>
<td>the <em>Service Manual</em> on the Dell Support website at <a href="http://support.dell.com">support.dell.com</a>.</td>
</tr>
<tr>
<td>reinstall or replace a worn or defective part.</td>
<td><strong>NOTE:</strong> In some countries, opening and replacing parts of your computer may void your warranty. Check your warranty and return policies before working inside your computer.</td>
</tr>
<tr>
<td>If you need to:</td>
<td>See:</td>
</tr>
<tr>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>find safety best practices information for your computer.</td>
<td>the safety and regulatory documents that shipped with your computer and also see the Regulatory Compliance Homepage at [<a href="http://www.dell/regulatory_compliance%5C">www.dell/regulatory_compliance\</a>].</td>
</tr>
<tr>
<td>review Warranty information, Terms and Conditions (U.S. only), Safety instructions, Regulatory information, Ergonomics information, and End User License Agreement.</td>
<td></td>
</tr>
<tr>
<td>find your Service tag/Express Service Code—You must use the service tag to identify your computer on support.dell.com or to contact technical support.</td>
<td>the top of your computer towards the back.</td>
</tr>
<tr>
<td>find drivers and downloads. access technical support and product help. check on your order status for new purchases. find solutions and answers to common questions. locate information for last-minute updates about technical changes to your computer or advanced technical-reference material for technicians or experienced users.</td>
<td>the Dell Support website at [support.dell.com].</td>
</tr>
</tbody>
</table>
This section provides basic information that you may need when setting up, updating drivers for, and upgrading your computer.

**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

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<th>Type</th>
<th>L2 cache</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intel® Celeron®</td>
<td>512 KB</td>
</tr>
<tr>
<td>Intel Pentium®</td>
<td>1 MB</td>
</tr>
<tr>
<td>Dual-Core</td>
<td></td>
</tr>
<tr>
<td>Intel Core™2 Duo</td>
<td>2 MB/3 MB/4 MB/6 MB</td>
</tr>
<tr>
<td>Intel Core2 Quad</td>
<td>6 MB/8 MB/12 MB</td>
</tr>
</tbody>
</table>
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<table>
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<tr>
<th>Externally accessible</th>
<th>Internally accessible</th>
</tr>
</thead>
<tbody>
<tr>
<td>one 5.25-inch drive bay for SATA DVD+/-RW Super Multi Drive or Blu-ray Disc™ combo or Blu-ray Disc RW drive, Media Card Reader</td>
<td>two 3.5-inch drive bays for SATA hard drive</td>
</tr>
</tbody>
</table>

### Memory

<table>
<thead>
<tr>
<th>Connectors</th>
<th>Capacities</th>
<th>Memory type</th>
</tr>
</thead>
<tbody>
<tr>
<td>four internally-accessible DDR2 DIMM sockets</td>
<td>512 MB, 1 GB, and 2 GB</td>
<td>800 MHz DDR2 DIMM</td>
</tr>
</tbody>
</table>

#### Memory

- **Minimum**: 1 GB
- **Maximum**: 4 GB (32-bit operating system), 8 GB (64-bit operating system)

**NOTE**: For instructions on upgrading your memory, see the *Service Manual* on the Dell Support website at [support.dell.com](http://support.dell.com).

### Computer Information

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<tr>
<th>System chipset</th>
<th>Data bus width</th>
<th>DRAM bus width</th>
<th>Processor address bus width</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intel G45 + ICH10R</td>
<td>64 bits</td>
<td>64 bits</td>
<td>32 bits</td>
</tr>
</tbody>
</table>
## Specifications

### Computer Information

<table>
<thead>
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<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RAID support</td>
<td>RAID 0 (striping)</td>
</tr>
<tr>
<td></td>
<td>RAID 1 (mirroring)</td>
</tr>
<tr>
<td>BIOS chip</td>
<td>8 MB</td>
</tr>
<tr>
<td>(NVRAM)</td>
<td></td>
</tr>
</tbody>
</table>

### Expansion Bus

<table>
<thead>
<tr>
<th>Bus types</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCI 2.3</td>
<td></td>
</tr>
<tr>
<td>PCI Express</td>
<td></td>
</tr>
<tr>
<td>1.0 A (x1), 2.0 (x16)</td>
<td></td>
</tr>
<tr>
<td>SATA 1.0, 2.0, and USB 2.0</td>
<td></td>
</tr>
<tr>
<td>Bus speeds</td>
<td></td>
</tr>
<tr>
<td>PCI</td>
<td>133 MB/s</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Expansion Bus</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCI Express</td>
<td></td>
</tr>
<tr>
<td>• x1 slot</td>
<td>bi-directional speed - 500 MB/s</td>
</tr>
<tr>
<td>• x16 slot</td>
<td>bi-directional speed - 8 GB/s</td>
</tr>
<tr>
<td>SATA</td>
<td>1.5 Gbps and 3.0 Gbps</td>
</tr>
<tr>
<td>USB</td>
<td>480 Mbps high speed, 12 Mbps full speed, and 1.2 Mbps low speed</td>
</tr>
<tr>
<td>PCI</td>
<td></td>
</tr>
<tr>
<td>Connectors</td>
<td>one</td>
</tr>
<tr>
<td>Connector size</td>
<td>124 pins</td>
</tr>
<tr>
<td>Connector data width (maximum)</td>
<td>32 bits</td>
</tr>
</tbody>
</table>
## Specifications

### Expansion Bus

<table>
<thead>
<tr>
<th>Expansion Bus</th>
<th>Connectors</th>
<th>Connector size</th>
<th>Connector data width (maximum)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCI Express x1</td>
<td>two</td>
<td>36 pins</td>
<td>1 PCI Express lane</td>
</tr>
<tr>
<td>PCI Express x16</td>
<td>one</td>
<td>164 pins</td>
<td>16 PCI Express lane</td>
</tr>
</tbody>
</table>

### Video

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Integrated</td>
<td>Intel GMA X4500HD</td>
</tr>
<tr>
<td>Discrete</td>
<td>PCI Express x16 card (optional)</td>
</tr>
</tbody>
</table>

### Audio

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>integrated 7.1 High Definition audio</td>
</tr>
</tbody>
</table>

### System Board Connectors

<table>
<thead>
<tr>
<th>Connector Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chassis fan</td>
<td>one 3-pin connector</td>
</tr>
<tr>
<td>Front panel audio</td>
<td>one 10-pin connector</td>
</tr>
<tr>
<td>HDA header</td>
<td>one 10-pin connector</td>
</tr>
<tr>
<td>Front panel control</td>
<td>one 10-pin connector</td>
</tr>
<tr>
<td>Internal USB device</td>
<td>five 10-pin connectors</td>
</tr>
<tr>
<td>Memory</td>
<td>four 240-pin connectors</td>
</tr>
</tbody>
</table>
## Specifications

<table>
<thead>
<tr>
<th>System Board Connectors</th>
<th>External Connectors</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCI 2.3</td>
<td>Video</td>
</tr>
<tr>
<td>one 124-pin connector</td>
<td>one VGA connector</td>
</tr>
<tr>
<td>PCI Express x1</td>
<td>Network adapter</td>
</tr>
<tr>
<td>two 36-pin connectors</td>
<td>RJ45 connector</td>
</tr>
<tr>
<td>PCI Express x16</td>
<td>USB</td>
</tr>
<tr>
<td>one 164-pin connector</td>
<td>two front-panel and four back-panel USB 2.0 compliant connectors</td>
</tr>
<tr>
<td>Power</td>
<td>Audio</td>
</tr>
<tr>
<td>one 24-pin connector</td>
<td>Realtek ALC888S (7.1 Channel audio)</td>
</tr>
<tr>
<td>Power 12 V</td>
<td>S/PDIF</td>
</tr>
<tr>
<td>one 4-pin connector</td>
<td>one S/PDIF connector</td>
</tr>
<tr>
<td>Processor</td>
<td>IEEE 1394</td>
</tr>
<tr>
<td>775 pin</td>
<td>6-pin serial connector</td>
</tr>
<tr>
<td>Processor fan</td>
<td></td>
</tr>
<tr>
<td>one 4-pin connector</td>
<td></td>
</tr>
<tr>
<td>Serial ATA</td>
<td></td>
</tr>
<tr>
<td>four 7-pin connectors</td>
<td></td>
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</table>
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<table>
<thead>
<tr>
<th>Power</th>
<th>Physical</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC power supply:</td>
<td></td>
</tr>
<tr>
<td>Wattage</td>
<td>Height 362 mm (14.2 inches)</td>
</tr>
<tr>
<td>Maximum heat dissipation</td>
<td>135 W</td>
</tr>
<tr>
<td></td>
<td>Width 100 mm (3.9 inches)</td>
</tr>
<tr>
<td></td>
<td>Depth 435 mm (17.13 inches)</td>
</tr>
<tr>
<td></td>
<td>Weight 9 kg (19.8 lb.)</td>
</tr>
<tr>
<td>Voltage</td>
<td></td>
</tr>
<tr>
<td>115/230 VAC. 50/60 Hz, 6 A/3 A</td>
<td></td>
</tr>
<tr>
<td>Coin-cell battery</td>
<td></td>
</tr>
<tr>
<td>3-V CR2032 lithium coin cell</td>
<td></td>
</tr>
</tbody>
</table>

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

The information in this document applies to the products listed below:

- Studio Slim
- Studio Slim 540s
- Studio Slim 540sn

**Macrovision Product Notice**

This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.
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<td>data, backing up 21</td>
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