

Dell Pro Tower Plus

QBT1250

Re-imaging guide for Windows

Notes, cautions, and warnings

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


 **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 overview

 **CAUTION:** This re-imaging guide is designed for system administrators. Do not attempt to re-image your computer if you are not an administrator or if you are unsure of the procedures. Failure to follow instructions may result in permanent data loss.

 **NOTE:** Information provided in this guide is only applicable to computers with Windows 11 operating system installed.

 **NOTE:** Dell Technologies recommends that you download and install the device drivers from the Dell Drivers & Downloads website. Installing device drivers from a non-Dell website can cause computer performance issues or corrupt operating system files. It can also cause blue screen errors, unexpected shutdowns, or infect your computer with malicious software.

Device drivers must be updated when you reinstall the operating system using a CD, DVD, or USB drive. Device drivers must also be updated when you are facing networking, graphics, sound, or other hardware-related problems. Dell Technologies recommends that you install or update device drivers if you have performed a factory reset of your Dell Technologies computer. Use the Dell Backup and Recovery application or other factory-reset methods. The driver installation ensures that you have the latest device drivers installed on your computer and that the devices function optimally.


Installing or updating device drivers may lead to the following improvements:


- Increases in computer performance
- Patched security risks
- Expanded compatibility
- Fixed device issues
- Support for new features

However, if your computer is operating normally and there are no driver issues or Windows prompted updates, driver updates may be unnecessary. Updating drivers unnecessarily may create problems.

Review the importance of each driver update on the Dell [Drivers & Downloads](#) page before assessing the need to continue with an update.

Introduction

 **CAUTION:** This re-imaging guide is designed for system administrators. Do not attempt to re-image your computer if you are not an administrator or are unsure of the procedures. Failure to follow instructions may result in permanent data loss.

 **NOTE:** The information that is provided in this guide is only applicable to computers with Windows 11 installed.

Re-imaging is the process of removing all software on the computer and reinstalling the removed software. Re-imaging is required when software in the computer is corrupted or damaged. It can also be used as a means of removing harmful and malicious software in your computer. This re-imaging guide provides the steps that are required for re-imaging your computer.

This guide assists you in installing Dell Technologies-recommended software stack and settings, drivers, and applications, which are tested and validated on the computer. The installation of the listed drivers and applications as described in the guide enhances the optimal performance of your computer.

Dell Technologies also provides drivers and applications that are not included with the Windows operating system. These drivers are required to enable the following solid-state drives (SSDs):

- 128 GB SSD
- 256 GB PCIe SSD
- 512 GB PCIe SSD
- 1024 GB PCIe SSD
- 2048 GB PCIe SSD and larger capacity size PCIe SSDs

It is always recommended to re-image on a newly installed operating system and not from any previous image-build. Ensure that the BIOS settings, including SATA configurations and modes, are set appropriately and use the latest drivers and applications when re-imaging the computer.

Order of reinstallation

NOTE: Some drivers and application installation steps may not be applicable, depending on the configuration of the computer you have ordered.

NOTE: The hidden partition in the shipping storage serves for the maintenance purpose and can recover from crisis. Dell Technologies recommends you keep the partition hidden before re-imaging.

To achieve optimal performance, install the drivers and applications in the following sequence:

1. **BIOS:** Enables the operating system to be loaded into the memory and enables the initial setup process on your computer.
 2. **Windows operating system:** The operating system controls the computer's hardware to be a base on which other software can operate on.
 3. **Intel chipset driver:** Allows Windows to communicate and adjust settings on components on the system board which includes:
 - Intel Chipset Device Software Driver
 - Intel Management Engine Components Installer
 - Intel Serial IO Driver
 - Intel HID Event Filter Driver
 - Intel Thunderbolt Controller Driver
 - Intel Dynamic Tuning Driver
 - Intel Integrated Sensor Solution Driver
 - Intel Manageability and Security Status Application
 4. **Networking and communication drivers**, which include:
 - Wireless Local Area Network (WLAN) adapter driver: Enables and enhances the wireless adapter.
 - Bluetooth driver: Enables and enhances the Bluetooth adapter.
 - Onboard Local Area Network (LAN) driver.
 5. **Install latest updates and drivers:**
 - For commercial computers, use **Dell Command Update (DCU)**.
- NOTE:** Drivers can be downloaded and installed manually from [Drivers & Downloads](#).
6. **Critical Microsoft Knowledge Base (KB) updates:** Microsoft updates that fix and optimize the operating system. For more information, see [Windows release information](#).
 7. **Media-card reader driver:** Enables and enhances the media-card reader.
 8. **Intel Rapid Storage Technology (IRST):** Enables and enhances data storage vitalization for the storage drives installed in the computer.
 9. **Graphics driver:**
 - Enhances and optimizes video performance.
 - Enables and provides additional functionality not included in the native Microsoft VGA driver, including:
 - User-customizable power management features
 - Portability and behavioral profiles
 - Multiple-monitor support
 10. **Audio driver:** Enables and enhances the audio controller.
 11. **Security drivers**
 12. **Dell applications**, which include:
 - Dell Update application
 - Dell Optimizer (DO)

Updating or resetting the BIOS

Updating the BIOS in Windows

It is recommended to update the BIOS in Windows when an update is available or when you replace the system board. To update the BIOS:

1. Go to [Dell Support Site](#).
2. In the **Search support** field, enter the Service Tag, Serial Number, Service Request, Model, or Keyword of your computer, and then click **Search**.

NOTE: If you do not have the Service Tag, Serial Number, Service Request, Model, or Keyword, use the SupportAssist feature to automatically identify your computer. You can also click **Browse all products** to manually browse for your computer.
3. Click **Drivers & downloads**.
4. In the **Operating system** drop-down, select the operating system that is installed on your computer.
5. In the **Category** drop-down list, select **BIOS**.
6. Select the latest version of BIOS, and click **Download** to download the BIOS file for your computer.
7. After the download is complete, browse the folder where you saved the BIOS update file.
8. Double-click the BIOS update file icon and follow the instructions on the screen.

For more information, see knowledge base article [000124211](#) at [Dell Support Site](#).

Clearing CMOS settings

If flashing your computer with the latest BIOS update results in your computer being unable to boot, a BIOS reset is necessary. Clearing the CMOS settings will reset the BIOS to factory settings. For more information about clearing the CMOS settings, go to [Dell Support Site](#) and see your computer's *Owner's Manual*.

Trusted Platform Module (TPM) security

TPM must be enabled in the BIOS setup program for it to be deployed on the computer. Follow these steps to enable and configure the TPM:

1. Turn on or restart your computer.
2. Press F2 when the Dell Technologies logo is displayed on the screen to enter the BIOS setup program. The BIOS setup program is displayed.
3. On the left pane, select **Security**.
4. Select or clear any of the following options to enable or disable it, respectively:
 - **TPM state (Enabled or Disabled):**
 - **Enabled:** The BIOS will enable the TPM during Power-On-Self-Test (POST) and it can be accessed by the operating system.
 - **Disabled:** The BIOS will not enable the TPM during Power-On-Self-Test (POST) and it cannot be accessed by the operating system.
 - **TPM 2.0 security On:** The TPM is enabled and activated.
 - **Clear:** The BIOS clears the information stored in the TPM.
5. Save the settings and exit.

Reinstalling the operating system

The Windows operating system is validated for use on this computer. You can reset or reinstall the operating system under different scenarios. For more information about reinstalling the operating system, see the knowledge base article [000192698](#) at [Dell Support Site](#).

Before attempting a reinstall of your operating system, Dell Technologies recommends that you backup all data as described in the [Microsoft Knowledge Base article](#).


Reinstalling drivers and applications

Drivers and applications are software that enable Windows to communicate with the hardware devices and software in your computer. Devices such as video and sound cards require drivers to function correctly within Windows, and enable users to adjust hardware settings.

Windows includes drivers for most devices, but device-specific drivers may have to be downloaded and installed separately. Dell Technologies recommends that you download the device drivers for your Dell Technologies computer from [Drivers & Downloads](#).

Applications must be downloaded and installed separately. Dell Technologies recommends that you download the required applications for your Dell Technologies computer from the [Dell Download Center](#).

Displaying drivers and applications on your computer

1. Turn on your computer.
2. Go to [Dell Support Site](#).
3. In the **Search support** field, enter the Service Tag, Serial Number, Service Request, Model, or Keyword of your computer, and then click **Search**.
 **NOTE:** If you do not have the Service Tag, Serial Number, Service Request, Model, or Keyword, use the SupportAssist feature to automatically identify your computer. You can also click **Browse all products** to manually browse for your computer.
4. Click **Drivers & downloads**.
5. In the **Operating system** drop-down, select the Windows operating system that is installed on your computer to get a list of the drivers and applications available for your computer.

Reinstallation sequence for drivers and applications

Driver installation is critical after reinstalling the Windows operating system on your Dell Technologies computer. Install the drivers in the correct sequence for your computer to function correctly. In some scenarios, you may have to reinstall or update the device driver if you are encountering issues with a specific device.


For more information, see the Dell Technologies knowledge base article [000132394](#) at [Dell Support Site](#).

Dell Technologies recommends installing drivers or applications in the following sequence.

Intel chipset device software

The Windows operating system may not include the updated Intel chipset device software for Dell Technologies computers. The Intel chipset device software is available on Dell Technologies' support site [Dell Support Site](#).


Downloading and installing the chipset driver

1. Turn on your computer.
2. Go to [Dell Support Site](#).
3. In the **Search support** field, enter the Service Tag, Serial Number, Service Request, Model, or Keyword of your computer, and then click **Search**.
 **NOTE:** If you do not have the Service Tag, Serial Number, Service Request, Model, or Keyword, use the SupportAssist feature to automatically identify your computer. You can also click **Browse all products** to manually browse for your computer.
4. Click **Drivers & downloads**.
5. In the **Operating system** drop-down, select the Windows operating system that is installed on your computer to get a list of the drivers available for your computer.

Intel Management Engine driver

Intel Management Engine driver enables the advanced manageability features. To obtain manageability functionality, install the relevant Intel ME drivers from the [Dell Support Site](#).


Downloading and installing the Intel Management Engine Components Installer

1. Turn on your computer.
2. Go to [Dell Support Site](#).
3. In the **Search support** field, enter the Service Tag, Serial Number, Service Request, Model, or Keyword of your computer, and then click **Search**.
 **NOTE:** If you do not have the Service Tag, Serial Number, Service Request, Model, or Keyword, use the SupportAssist feature to automatically identify your computer. You can also click **Browse all products** to manually browse for your computer.

4. Click **Drivers & downloads**.
5. In the **Category** drop-down, select **Chipset**.
6. Click **Download** to download the driver for your computer.
7. After the download is complete, go to the folder where you saved the Intel Management Engine Components driver file.
8. Double-click the chipset driver file icon and follow the instructions on the screen.

Downloading and installing the Intel Manageability and Security Status Application

1. Turn on your computer.
2. Go to [Dell Support Site](#).
3. In the **Search support** field, enter the Service Tag, Serial Number, Service Request, Model, or Keyword of your computer, and then click **Search**.

 **NOTE:** If you do not have the Service Tag, Serial Number, Service Request, Model, or Keyword, use the SupportAssist feature to automatically identify your computer. You can also click **Browse all products** to manually browse for your computer.

4. Click **Drivers & downloads**.
5. In the **Category** drop-down, select **Chipset**.
6. Click **Download** to download the driver for your computer.
7. After the download is complete, go to the folder where you saved the Intel Manageability and Security Status application file.
8. Double-click the chipset driver file icon and follow the instructions on the screen.

Critical Microsoft Knowledge Base (KB) updates


Dell Technologies recommends installing all the latest available KB updates from the latest Windows Service Pack. Service packs are automatically downloaded and installed when Windows Updates are enabled and can also be manually downloaded and installed from the Microsoft support site. For more information, see [Windows release information](#).

Media-card reader driver

The Windows operating system does not include the media-card reader driver. Install the Realtek driver that is available for download from [Dell Support Site](#).

Downloading and installing the media-card reader driver

1. Turn on your computer.
2. Go to [Dell Support Site](#).
3. In the **Search support** field, enter the Service Tag, Serial Number, Service Request, Model, or Keyword of your computer, and then click **Search**.

 **NOTE:** If you do not have the Service Tag, Serial Number, Service Request, Model, or Keyword, use the SupportAssist feature to automatically identify your computer. You can also click **Browse all products** to manually browse for your computer.


4. Click **Drivers & downloads**.
5. In the **Category** drop-down, select **Chipset**.
6. Click **Download** to download the media-card reader driver for your computer.
7. After the download is complete, go to the folder where you saved the media-card reader driver file.
8. Double-click the card reader driver file icon and follow the instructions on the screen.

PCI-E memory card reader driver

The Windows operating system does not include the PCI-E memory card reader driver. Install the Realtek Memory Card Reader driver that is available for download from [Dell Support Site](#).

Downloading and installing the PCI-E memory card reader driver


1. Turn on your computer.
2. Go to [Dell Support Site](#).
3. In the **Search support** field, enter the Service Tag, Serial Number, Service Request, Model, or Keyword of your computer, and then click **Search**.

 **NOTE:** If you do not have the Service Tag, Serial Number, Service Request, Model, or Keyword, use the SupportAssist feature to automatically identify your computer. You can also click **Browse all products** to manually browse for your computer.

4. Click **Drivers & downloads**.
5. In the **Category** drop-down, select **Chipset**.
6. Click **Download** to download the driver for your computer.
7. After the download is complete, go to the folder where you saved the PCI-E memory card reader driver file.
8. Double-click the card reader driver file icon and follow the instructions on the screen.

Intel Rapid Storage Technology (IRST)


The IRST software package enables and enhances high-performance Serial ATA (SATA) and SATA RAID capabilities for supported operating systems. The IRST software package provides an added protection against data loss in the event of a hard-drive failure.

-  **NOTE:** The following conditions must be met before you can install IRST on your computer.
- Your computer has a RAID I/O controller hub (ICH). If your computer does not have a RAID ICH, you cannot install IRST unless a third-party RAID controller card is installed.
 - Your RAID controller is enabled by default.

 **CAUTION:** If a SATA hard drive is already installed, disabling the RAID controller (switch to AHCI mode) might cause your computer to display a blue screen and an error code followed by a system reboot.


Downloading and installing the IRST APPX

1. Turn on your computer.
2. Go to [Dell Support Site](#).
3. In the **Search support** field, enter the Service Tag, Serial Number, Service Request, Model, or Keyword of your computer, and then click **Search**.

 **NOTE:** If you do not have the Service Tag, Serial Number, Service Request, Model, or Keyword, use the SupportAssist feature to automatically identify your computer. You can also click **Browse all products** to manually browse for your computer.

4. Click **Drivers & downloads**.
5. In the **Category** drop-down, select **Serial ATA**.
6. Click **Download** to download the IRST APPX for your computer.
7. After the download is complete, go to the folder where you saved the IRST APPX file.
8. Double-click the IRST APPX file icon and follow the instructions on the screen.


Downloading and installing the IRST driver

1. Turn on your computer.
2. Go to [Dell Support Site](#).
3. In the **Search support** field, enter the Service Tag, Serial Number, Service Request, Model, or Keyword of your computer, and then click **Search**.
 **NOTE:** If you do not have the Service Tag, Serial Number, Service Request, Model, or Keyword, use the SupportAssist feature to automatically identify your computer. You can also click **Browse all products** to manually browse for your computer.
4. Click **Drivers & downloads**.
5. In the **Category** drop-down, select **Serial ATA**.
6. Click **Download** to download the IRST driver for your computer.
7. After the download is complete, go to the folder where you saved the IRST driver file.
8. Double-click the driver file icon and follow the instructions on the screen.

Graphics driver

The Windows operating system includes the VGA-graphics driver only. For optimal graphics performance, install the Technologies graphics driver applicable to your computer from [Dell Support Site](#).

Downloading and installing the Dell graphics driver


1. Turn on the computer.
2. Go to [Dell Support Site](#).
3. In the **Search support** field, enter the Service Tag, Serial Number, Service Request, Model, or Keyword of your computer, and then click **Search**.
 **NOTE:** If you do not have the Service Tag, Serial Number, Service Request, Model, or Keyword, use the SupportAssist feature to automatically identify your computer. You can also click **Browse all products** to manually browse for your computer.
4. Click **Drivers & downloads**.
5. In the **Category** drop-down, select **Video**.
6. Click **Download** to download the graphics driver for your computer.
7. After the download is complete, go to the folder where you saved the graphics driver file.
8. Double-click the graphics driver file icon and follow the instructions on the screen.

Audio driver

The Windows operating system does not include the audio driver recommended by Dell Technologies. Install the HD audio driver available for download from [Dell Support Site](#).

Downloading and installing the Dell audio driver

1. Turn on the computer.
2. Go to [Dell Support Site](#).
3. In the **Search support** field, enter the Service Tag, Serial Number, Service Request, Model, or Keyword of your computer, and then click **Search**.

 **NOTE:** If you do not have the Service Tag, Serial Number, Service Request, Model, or Keyword, use the SupportAssist feature to automatically identify your computer. You can also click **Browse all products** to manually browse for your computer.

4. Click **Drivers & downloads**.
5. In the **Category** drop-down, select **Audio**.
6. Click **Download** to download the audio driver for your computer.
7. After the download is complete, go to the folder where you saved the audio driver file.
8. Double-click the audio driver file icon and follow the instructions on the screen.

Dell Optimizer


Dell Optimizer is an application that is designed to enhance computer performance and productivity by optimizing settings for power, display, and presence detection. It also provides access to applications purchased with your new computer. For more information, see *Dell Optimizer User Guide* at [Dell Support Site](#).

Wireless Local Network (WLAN) drivers and applications

The Windows operating system does not provide native-device driver support for WLAN controllers on Dell Technologies computers. To obtain wireless network functionality, install the relevant WLAN drivers from the Dell support site. WLAN applications, which provide additional features including enterprise authentication enhancements, can also be installed from the Dell support site.

Downloading and installing the Wi-Fi driver

1. Turn on the computer.
2. Go to [Dell Support Site](#).
3. In the **Search support** field, enter the Service Tag, Serial Number, Service Request, Model, and Keyword of your computer, and then click **Search**.

 **NOTE:** If you do not have the Service Tag, Serial Number, Service Request, Model, and Keyword, use the SupportAssist feature to automatically identify your computer. You can also click **Browse all products** to manually browse for your computer.

4. Click **Drivers & downloads**.
5. In the **Category** drop-down, select **Network**.
6. Click **Download** to download the preferred Wi-Fi driver for your computer.
7. After the download is complete, go to the folder where you saved the Wi-Fi driver file.
8. Double-click the Wi-Fi driver file icon and follow the instructions on the screen.

.NET Framework



The .NET Framework is a software framework from Microsoft, which is bundled with Windows operating systems. The .NET Framework is intended to be used by applications created for the Windows platform.

Getting help and contacting Dell Technologies

Self-help resources

You can get information and help on Dell Technologies products and services using these self-help resources:


Table 1. Self-help resources

Self-help resources	Resource location
Information about Dell Technologies products and services	Dell Site
MyDell app	
Tips	
Contact Support	In Windows search, type <code>Contact Support</code> , and press Enter.
Online help for operating system	Windows Support Site
Access top solutions, diagnostics, drivers and downloads, and learn more about your computer through videos, manuals, and documents.	<p>Your Dell Technologies computer is uniquely identified using a Service Tag or Express Service Code. To view relevant support resources for your Dell Technologies computer, enter the Service Tag or Express Service Code at Dell Support Site.</p> <p>For more information about how to find the Service Tag for your computer, see Instructions on how to find your Service Tag or Serial Number.</p>
Dell Technologies knowledge base articles	<ol style="list-style-type: none"> 1. Go to Dell Support Site. 2. On the menu bar at the top of the Support page, select Support > Support Library. 3. In the Search field on the Support Library page, type the keyword, topic, or model number, and then click or tap the search icon to view the related articles.

Contacting Dell Technologies

To contact Dell Technologies for sales, technical support, or customer service issues, see [Contact Support at Dell Support Site](#).

 **NOTE:** Availability of the services may vary depending on the country or region, and product.

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