

**DELL**  
**165H**  
**Latitude**  
**Notebook**



# DELL 165H Latitude Notebook User Guide

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**DELL 165H Latitude Notebook**



## Specifications

- **Product:** Latitude 7650
- **Re-imaging guide for Windows**
- **Regulatory Model:** P126F
- **Regulatory Type:** P126F002
- **Revision:** A00

## FAQs

### **Q: Can I install device drivers from non-Dell websites?**

**A:** Dell recommends downloading drivers only from the Dell Drivers & Downloads website to avoid performance issues or system file corruption.

### **Q: What should I do if I'm not a computer administrator?**

**A:** If you are not an administrator, do not attempt driver installations or re-imaging to prevent data loss.

**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.

## Installation overview

**CAUTION:** This section of the re-imaging guide covers driver installation and driver updates and is designed for computer administrators. Do not attempt to install or update drivers on the 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:** The information that is provided in this guide is only applicable to computers shipped with the Windows 11 operating system.

**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 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 browse an update.

## Introduction

**CAUTION:** This re-imaging guide is designed for computer administrators. Do not attempt to re-image the 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 shipped with the Windows 11 operating system.

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 and 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-recommended software stack and settings, drivers, and applications, which are tested and validated on your computer. The installation of the listed drivers and applications as described in the guide enhances the optimal performance of your computer. Dell 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) and hard drives:

- 512 PCIe SSD
- 1 TB PCIe SSD
- 2 TB PCIe SSD
- 256 GB PCIe SSD
- 512 GB PCIe SSD

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

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.
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 I/O Driver
  - Intel HID Event Filter Driver
  - Intel Thunderbolt Controller Driver
  - Intel Dynamic Tuning Driver
  - Intel Innovation Platform Framework Driver
  - Intel AI Boost Driver
  - Intel Platform Monitoring Technology 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.
5. Install the latest updates and drivers:
  - For commercial computers, use Dell Command Updates (DCU).
  - For consumer computers, use SupportAssist.
  - **NOTE:** Drivers can be downloaded and installed manually from the [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. Camera driver: Intel 2D Imaging, MCU, or Visual Sensing Controller Driver.
8. Camera AI Effect Opt-in driver: If the camera AI feature is enabled.
9. Intel Rapid Storage Technology (IRST): Enables and enhances data storage virtualization for the storage drives installed in the computer.
10. 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
11. Audio driver: Enables and enhances the audio controller.
12. Security drivers, which include:
  - Dell ControlVault3 Plus driver and firmware

13. Dell applications, which include:

- Dell Command 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.

1. Go to [www.dell.com/support](http://www.dell.com/support).
2. In the Search support field, enter the Service Tag/Serial Number/Service Request/Model/Keyword of your computer, and then click Search.
  - **NOTE:** If you do not have the Service Tag/Serial Number/Service Request/Model/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 > Find drivers.
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 on-screen instructions. For more information, see knowledge base article [000124211](https://www.dell.com/support/000124211) at [www.dell.com/support](http://www.dell.com/support).

### 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 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 POST and it can be accessed by the operating system.
    - Disabled: The BIOS will not enable the TPM during 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 [www.dell.com/support](http://www.dell.com/support). For installing Windows on Intel 14th Generation computers using ISO images. For more information, see [www.dell.com/support](http://www.dell.com/support). Before attempting a reinstall of your operating system, Dell Technologies recommends backing up all data as described in the [Microsoft knowledge base article](#).

## Reinstalling drivers and applications

Drivers and applications are software that enables 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 recommends that you download the device drivers for your Dell computer from Drivers & Downloads. Applications must be downloaded and installed separately. Dell recommends that you download the required applications for your Dell computer from the [Dell Download Center](#).

## Displaying drivers and applications on your computer

1. Turn on your computer.
2. Go to [www.dell.com/support](http://www.dell.com/support).
3. In the Search support field, enter the Service Tag/Serial Number/Service Request/Model/Keyword of your computer, and then click Search.
  - NOTE: If you do not have the Service Tag/Serial Number/Service Request/Model/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 > Find drivers.
5. Select the Windows operating system installed on your computer to get a list of the drivers and applications available on your computer.

## Reinstallation sequence for drivers and applications

Driver installation is critical after reinstalling the Windows operating system on your Dell 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 knowledge base article [000132394](#) at [www.dell.com/support](http://www.dell.com/support).

**NOTE:** The Windows operating system includes touchpad drivers; no other touchpad-driver installation is required.

**NOTE:** The Windows operating system includes the webcam drivers; no additional webcam-driver installation is required.

For video capture or streaming, users can install webcam software available from third-party providers. Dell 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 computers. The Intel chipset device software is available on Dell's support site [www.dell.com/support](http://www.dell.com/support).

## Downloading and installing the chipset driver

1. Turn on the computer.
2. Go to [www.dell.com/support](http://www.dell.com/support).
3. In the Search support field, enter the Service Tag/Serial Number/Service Request/Model/Keyword of your computer, and then click Search.
  - NOTE: If you do not have the Service Tag/Serial Number/Service Request/Model/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 > Find drivers.
5. In the Category drop-down, select Chipset.
6. Click Download to download the chipset driver for your computer.
7. After the download is complete, go to the folder where you saved the chipset driver 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 on your computer. KB updates 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: [Windows 11 – release information](#)

### **Intel Rapid Storage Technology (IRST)**

The IRST software package provides added protection against data loss in the event of a hard drive failure and supports the configuration of multiple features.

#### **Downloading and installing the IRST driver**

1. Turn on your computer.
2. Go to [www.dell.com/support](http://www.dell.com/support).
3. In the Search support field, enter the Service Tag/Serial Number/Service Request/Model/Keyword of your computer, and then click Search.
  - NOTE: If you do not have the Service Tag/Serial Number/Service Request/Model/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 > Find drivers.
5. In the Category drop-down, select Storage.
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 IRST driver file icon and follow the instructions on the screen.

### **Graphics**

The Windows operating system includes the VGA graphics driver only. For optimal graphics performance, install the Dell graphics driver applicable to your computer from [www.dell.com/support](http://www.dell.com/support).

#### **Downloading and installing the Dell graphics driver**

1. Turn on your computer.
2. Go to [www.dell.com/support](http://www.dell.com/support).
3. In the Search support field, enter the Service Tag/Serial Number/Service Request/Model/Keyword of your computer, and then click Search.
  - NOTE: If you do not have the Service Tag/Serial Number/Service Request/Model/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 > Find drivers.
5. In the Category drop-down, select Video.
6. Click Download to download the preferred 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

The Windows operating system does not include the audio driver recommended by Dell. Install the HD audio driver available for download from [www.dell.com/support](http://www.dell.com/support).

### Downloading and installing the Dell audio driver

1. Turn on your computer.
2. Go to [www.dell.com/support](http://www.dell.com/support).
3. In the Search support field, enter the Service Tag/Serial Number/Service Request/Model/Keyword of your computer, and then click Search.
  - NOTE: If you do not have the Service Tag/Serial Number/Service Request/Model/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 > Find drivers.
5. In the Category drop-down, select Audio.
6. Click Download to download the preferred 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 ControlVault3 Plus Driver Firmware

Dell ControlVault3 Plus contains software that protects data in your computer from disclosure or modification. The software package is available on Dell's support site [www.dell.com/support](http://www.dell.com/support).

### Downloading and installing the Dell ControlVault3 Plus driver and firmware

1. Turn on your computer.
2. Go to [www.dell.com/support](http://www.dell.com/support).
3. In the Search support field, enter the Service Tag/Serial Number/Service Request/Model/Keyword of your computer, and then click Search.
  - NOTE: If you do not have the Service Tag/Serial Number/Service Request/Model/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 > Find drivers.
5. In the Category drop-down, select Security.
6. Click Download to download the software package for your computer.
7. After the download is complete, go to the folder where you saved the Dell ControlVault3 Plus driver and firmware.
8. Double-click the Dell ControlVault3 Plus driver file icon and follow the instructions on the screen.

## **Dell Optimizer**

Dell Optimizer is a software application that intelligently and dynamically optimizes the performance of your computer by using artificial intelligence and machine learning. It improves the productivity, performance, and user experience through computer usage analysis and learning. For more information about Dell Optimizer, see [www.dell.com/support](http://www.dell.com/support).

### **Downloading and installing the Dell Optimizer**

1. Turn on your computer.
2. Go to [www.dell.com/support](http://www.dell.com/support).
3. In the Search support field, enter the Service Tag/Serial Number/Service Request/Model/Keyword of your computer, and then click Search.
  - NOTE: If you do not have the Service Tag/Serial Number/Service Request/Model/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 > Find drivers.
5. In the Category drop-down, select Application.
6. Click Download to download the application for your computer.
7. After the download is complete, go to the folder where you saved the Dell Optimizer application file.
8. Double-click the application file icon and follow the instructions on the screen.

## **Wireless Local Network (WLAN) drivers and applications**

The Windows operating system does not provide native-device driver support for WLAN controllers on Dell 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 [www.dell.com/support](http://www.dell.com/support).
3. In the Search support field, enter the Service Tag/Serial Number/Service Request/Model/Keyword of your computer, and then click Search.
  - NOTE: If you do not have the Service Tag/Serial Number/Service Request/Model/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 > Find drivers.
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.

## **Dell Thunderbolt Dock WD22TB4**

The Dell Thunderbolt Dock WD22TB4 is a device that links all your electronic devices to your computer using a Thunderbolt 4 (Type-C) cable interface. Connecting the computer to the docking station enables you to access to all peripherals (mouse, keyboard, stereo speakers, external hard drive, and high-resolution displays) without having to plug each device into the computer.

**CAUTION:** You must update your computer's BIOS and the Dell Thunderbolt Docking Station drivers to the latest versions available on Dell support site before using the docking station. Older BIOS versions and drivers could result in the docking station not being recognized by your computer or not functioning optimally. For more information about the drivers required for the Dell Thunderbolt Dock WD22TB4, see [www.dell.com/support](http://www.dell.com/support).

## **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**

### **Self-help resources**

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

Table 1. Self-help resources

Self-help resources	Resource location
Information about Dell products and services	<a href="http://www.dell.com">www.dell.com</a>
Tips	
Contact Support	In Windows search, type Contact Support, and press Enter.
Online help for operating system	<a href="http://www.dell.com/support/windows">www.dell.com/support/windows</a> <a href="http://www.dell.com/support/linux">www.dell.com/support/linux</a>
Access top solutions, diagnostics, drivers, and downloads, and learn more about your computer through videos, manuals, and documents.	<p>Your Dell computer is uniquely identified using a Service Tag or Express Service Code. To view relevant support resources for your Dell computer, enter the Service Tag or Express Service Code at <a href="http://www.dell.com/support">www.dell.com/support</a>.</p> <p>For more information about how to find the Service Tag for your computer, see <a href="#">Locate the Service Tag on your computer</a>.</p>
Dell knowledge base articles	<ol style="list-style-type: none"> <li>Go to <a href="http://www.dell.com/support">www.dell.com/support</a>.</li> <li>On the menu bar at the top of the Support page, select <b>Support &gt; Support Library</b>.</li> <li>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.</li> </ol>

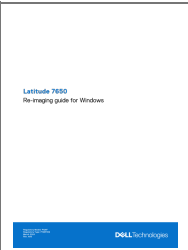
## Contacting Dell

To contact Dell for sales, technical support, or customer service issues, see [www.dell.com/contactdell](http://www.dell.com/contactdell).


**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 product catalog.

## Documents / Resources

	<p><a href="#">DELL 165H Latitude Notebook</a> [pdf] User Guide  165H, 135U, 165H Latitude Notebook, 165H, Latitude Notebook, Notebook</p>
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## References

-  [Dell - Dell Linux - Community Web](#)
-  [Windows 11 - release information | Microsoft Learn](#)
-  [Windows 11 - release information | Microsoft Learn](#)
-  [Back up your Windows PC - Microsoft Support](#)
-  [Dell - Dell Linux - Community Web](#)
- [User Manual](#)

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