

# Dell Latitude 7400 2-in-1

Setup and specifications guide



## 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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# Contents

<b>1 Set up your computer</b> .....	<b>5</b>
<b>2 Create a USB recovery drive for Windows</b> .....	<b>7</b>
<b>3 Chassis</b> .....	<b>8</b>
Front view.....	8
Left view.....	9
Right view.....	9
Top view.....	10
Bottom view.....	11
Chassis modes.....	12
<b>4 Keyboard shortcuts</b> .....	<b>13</b>
<b>5 System specifications</b> .....	<b>14</b>
System information.....	14
Processor.....	15
Memory.....	15
Storage.....	15
System board connectors.....	16
Media card reader.....	16
Audio.....	16
Graphics Specifications.....	17
Camera.....	17
Communication Specifications.....	17
External Ports and connectors.....	18
Smart card reader.....	18
Display specifications.....	18
Keyboard.....	19
Touchpad.....	20
Operating system.....	20
Battery.....	20
Power adapter.....	21
Physical system dimensions.....	22
Computer environment.....	22
NFC.....	22
Fingerprint reader.....	23
Security.....	23
Regulatory and Environmental Compliance.....	23
<b>6 System setup</b> .....	<b>24</b>
Boot menu.....	24
Navigation keys.....	24

Boot Sequence.....	25
System setup options.....	25
General options.....	25
System configuration.....	26
Video screen options.....	29
Security.....	29
Secure boot.....	31
Intel Software Guard Extensions options.....	31
Performance.....	32
Power management.....	33
Post behavior.....	34
Manageability.....	35
Virtualization support.....	35
Wireless options.....	36
Maintenance.....	36
System logs.....	37
Updating the BIOS in Windows .....	37
Updating BIOS on systems with BitLocker enabled.....	38
Updating your system BIOS using a USB flash drive.....	38
System and setup password.....	39
Assigning a system setup password.....	39
Deleting or changing an existing system setup password.....	39
Proximity sensor.....	40
Proximity sensor in Near state.....	40
Proximity sensor in external monitor usage stateProximity sensor user interface in external monitor usage state.....	40
Launch Dell Proximity Sensor/Systray icon.....	41
Supported hinge angles.....	41
<b>7 Software.....</b>	<b>43</b>
Downloading drivers.....	43
<b>8 Getting help.....</b>	<b>44</b>
Contacting Dell.....	44

# Set up your computer

- 1 Connect the power adapter and press the power button.

**NOTE:** To conserve battery power, the battery might enter power saving mode.





- 2 Finish the Windows system setup.
- 3 Follow the on-screen instructions to complete the setup. When setting up, Dell recommends that you:
  - Connect to a network for Windows updates.

**NOTE:** If connecting to a secured wireless network, enter the password for the wireless network access when prompted.

- If connected to the internet, sign-in with or create a Microsoft account. If not connected to the internet, create an offline account.
  - On the **Support and Protection** screen, enter your contact details.
- 4 Locate and use Dell apps from the Windows Start menu—Recommended

**Table 1. Locate Dell apps**

Dell apps	Details
	<p><b>Dell Product Registration</b></p> <p>Register your computer with Dell.</p>
	<p><b>Dell Help &amp; Support</b></p> <p>Access help and support for your computer.</p>

**SupportAssist**

Proactively checks the health of your computer's hardware and software.

 **NOTE:** Renew or upgrade your warranty by clicking the warranty expiry date in SupportAssist.

**Dell Update**

Updates your computer with critical fixes and important device drivers as they become available.

**Dell Digital Delivery**

Download software applications including software that is purchased but not pre-installed on your computer.

- 5 Create recovery drive for Windows.

 **NOTE:** It is recommended to create a recovery drive to troubleshoot and fix problems that may occur with Windows.

- 6 For more information, see [Create a USB recovery drive for Windows](#).

# Create a USB recovery drive for Windows

Create a recovery drive to troubleshoot and fix problems that may occur with Windows. An empty USB flash drive with a minimum capacity of 16 GB is required to create the recovery drive.

## Prerequisites

**NOTE:** This process may take up to an hour to complete.

**NOTE:** The following steps may vary depending on the version of Windows installed. Refer to the [Microsoft support site](#) for latest instructions.

## Steps

- 1 Connect the USB flash drive to your computer.
- 2 In Windows search, type `Recovery`.
- 3 In the search results, click **Create a recovery drive**.  
The **User Account Control** window is displayed.
- 4 Click **Yes** to continue.  
The **Recovery Drive** window is displayed.
- 5 Select **Back up system files to the recovery drive** and click **Next**.
- 6 Select the **USB flash drive** and click **Next**.  
A message appears, indicating that all data in the USB flash drive will be deleted.
- 7 Click **Create**.
- 8 Click **Finish**.

For more information about reinstalling Windows using the USB recovery drive, see the *Troubleshooting* section of your product's *Service Manual* at [www.dell.com/support/manuals](http://www.dell.com/support/manuals).

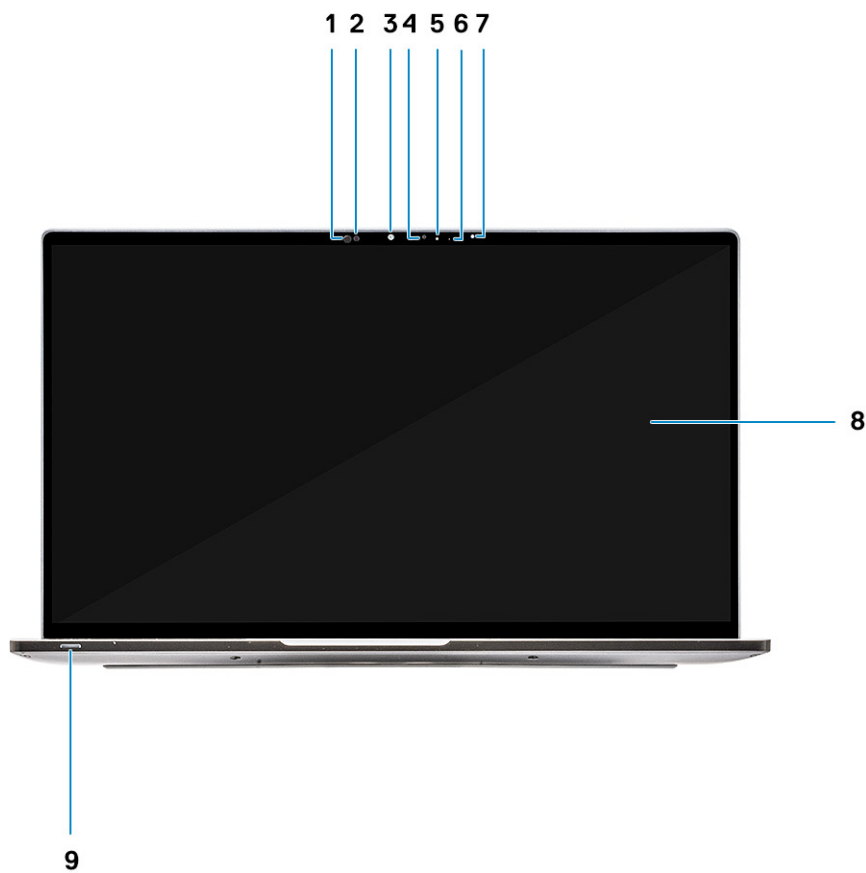
# Chassis

This chapter illustrates the multiple chassis views along with the ports and connectors and also explains the FN hot key combinations.

Topics:

- Front view
- Left view
- Right view
- Top view
- Bottom view
- Chassis modes

## Front view

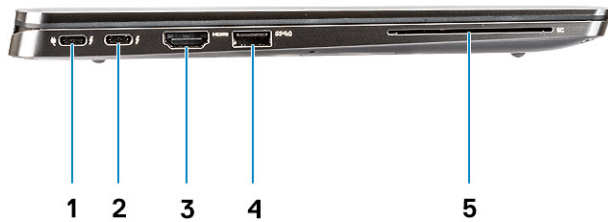


- 1 Proximity sensor receiver
- 2 Proximity sensor emitter
- 3 IR emitter



- 4 Camera (IR/RGB)
- 5 Camera status LED
- 6 IR emitter
- 7 Ambient Light Sensor (ALS)
- 8 Display panel
- 9 Battery / Diagnostics status LED

## Left view



- 1 USB 3.1 Gen2 Type-C port with Thunderbolt 3 and Power Delivery (PD)
- 2 USB 3.1 Gen2 Type-C port with Thunderbolt 3 and Power Delivery (PD)
- 3 HDMI 1.4 Port
- 4 USB 3.1 Gen 1 Type-A Port (With PowerShare and Power On /Wake support on WLAN )
- 5 Smart card reader (optional)

## Right view



- 1 3.5 mm universal audio port
- 2 micro SIM card slot

- 3 microSD card reader
- 4 USB 3.1 Gen 1 Type-A Port (With PowerShare and Power On/Wake support on WLAN)
- 5 Wedge-shaped lock slot

## Top view



- 1 Power button with fingerprint reader (optional)
- 2 Keyboard
- 3 Touchpad with NFC (optional)

# Bottom view



- 1 Service Tag label
- 2 Speakers

# Chassis modes

This section illustrates various supported modes for Latitude 7400 2-in-1: Stand, Notebook, Tablet, and Tent.



# Keyboard shortcuts

**NOTE:** Keyboard characters may differ depending on the keyboard language configuration. Keys that are used for shortcuts remain the same across all language configurations.

**Table 2. List of keyboard shortcuts**

Keys	Description
Fn + Esc	Fn Toggle
Fn + F1	Mute audio
Fn + F2	Decrease volume
Fn + F3	Increase volume
Fn + F4	Mic Mute
Fn + F5	Keyboard backlight
	<b>NOTE:</b> Not applicable for non-backlight keyboard.
Fn + F6	Decrease screen brightness
Fn + F7	Increase screen brightness
Fn + F8	Display Toggle (Win + P)
Fn + F10	Print Screen
Fn + F11	Home
Fn + F12	End
Fn + Right Ctrl	Emulates Right Click
Fn + delete	Num Lock
Fn + S	Scroll Lock
Fn + B	Pause
Fn + Ctrl + B	Break
Fn + R	SysReq
Fn + + Shift + B	Unobtrusive mode

**NOTE:** User must enable this feature within BIOS setup for it to work.

# System specifications

**NOTE:** Offerings may vary by region. The following specifications are only those required by law to ship with your computer. For more information about the configuration of your computer, go to Help and Support in your Windows operating system and select the option to view information about your computer.

Topics:

- [System information](#)
- [Processor](#)
- [Memory](#)
- [Storage](#)
- [System board connectors](#)
- [Media card reader](#)
- [Audio](#)
- [Graphics Specifications](#)
- [Camera](#)
- [Communication Specifications](#)
- [External Ports and connectors](#)
- [Smart card reader](#)
- [Display specifications](#)
- [Keyboard](#)
- [Touchpad](#)
- [Operating system](#)
- [Battery](#)
- [Power adapter](#)
- [Physical system dimensions](#)
- [Computer environment](#)
- [NFC](#)
- [Fingerprint reader](#)
- [Security](#)
- [Regulatory and Environmental Compliance](#)

## System information

**Table 3. System Information**

Feature	Specifications
Chipset	Intel 300 Series Chipset Family
DRAM bus width	64-bit
FLASH EPROM	SP1 32 MB
PCIe bus	Up to 8 GT/s (Gen3)

Feature	Specifications
External bus frequency	OPI x8, up to 4 GT/s
LPC (Low Pin Count)	24 MHz, no DMA

## Processor

**NOTE:** Processor numbers are not a measure of performance. Processor availability is subject to change and may vary by region/country.

**Table 4. Processor specifications**

Type	UMA Graphics
Intel Core i5-8265U (4 Core, 6M cache, base 1.6 GHz, up to 3.9 GHz)	Intel UHD Graphics 620

## Memory

**NOTE:** Memory is soldered on the system board and cannot be extended after purchase. Memory configuration should be selected at point of sale.

**Table 5. Memory specifications**

Feature	Specifications
Minimum memory configuration	8 GB
Maximum memory configuration	8 GB
Number of slots	Part of the system board
Memory options	8 GB
Type	LPDDR3 RAM
Speed	Up to 8 GB LPDDR3 SDRAM 2133 MHz (on board)

## Storage

**Table 6. Storage specifications**

Type	Form factor	Interface	Security option	Capacity
Primary Storage (SSD, FIPS, SED, Opal)	M.2 2230	PCIe x4	FIPS, SED, Opal	<ul style="list-style-type: none"> <li>• 128 GB</li> <li>• 256 GB</li> <li>• 512 GB</li> <li>• 1 TB</li> <li>• 256 GB/512 GB FIPS 140-2 compliant SED</li> <li>• 1 TB OPAL SED</li> </ul>
	M.2 2280 (With no WWAN configuration)	SATA 3		

# System board connectors

Table 7. Internal M.2 System board connectors

Feature	Specifications
M.2 Connectors	Three <ul style="list-style-type: none"><li>• 2230 socket 2 Key B, supports PCIe x2 interface</li><li>• 2230/2280 socket 3 Key M, supports 2230 PCIe x4 interface or supports 2280 if WWAN slot is not used</li><li>• Socket 1 Key E, supports CNVi/PCIe x1/USB2.0 and is used for WLAN</li></ul> <p><b>NOTE: WiGig is not supported.</b></p>

## Media card reader

Table 8. Media card reader specifications

Feature	Specifications
Type	One micro-SD card slot
Supported cards	<ul style="list-style-type: none"><li>• micro SD</li><li>• micro SDHC</li><li>• micro SDXC</li></ul>

## Audio

Table 9. Audio specifications

Feature	Specifications
Controller	Realtek ALC3254
Type	Four-channel high-definition audio
Speakers	Two (Directional speakers)
Interface	<ul style="list-style-type: none"><li>• Universal audio jack</li><li>• High quality speakers</li><li>• Noise reducing array microphones</li><li>• Stereo headset/mic combo</li></ul>
Internal speaker amplifier	2W (RMS) per channel



# Graphics Specifications

Table 10. Graphics specifications

Controller	Type	CPU Dependency	Graphics memory type	Capacity	External display support	Maximum resolution
Intel UHD 620 Graphics	UMA	None	Integrated	Shared system memory	<ul style="list-style-type: none"><li>HDMI 1.4a</li><li>USB Type-C display</li></ul>	4096x2304 @24 Hz

**NOTE:** This system supports a maximum of three displays, including the built-in eDP Panel.

## Camera

Table 11. Camera specifications

Feature	Specifications
Resolution	<p>Infrared camera (optional):</p> <ul style="list-style-type: none"><li>Still image: 0.30 megapixels</li><li>Video: 340 x 340 at 30 fps</li></ul> <p><b>NOTE:</b> Infrared camera is Windows hello compliant.</p>
Diagonal viewing angle	<ul style="list-style-type: none"><li>Camera - 77.7 degrees</li><li>Infrared camera - 70 degrees</li></ul>

## Communication Specifications

Table 12. WLAN (Wi-Fi) specifications

Intel Dual Band Wireless-AC 9560 802.11ac 160 MHz (2x2) Wi-Fi + Bluetooth v5 M.2 Wireless Card
Qualcomm QCA61x4A 802.11ac MU-MIMO Dual Band (2x2) Wi-Fi + Bluetooth v4.2 LE M.2 Wireless Card

Table 13. WWAN (Mobile Broadband) specifications

Dell Wireless 5821E Qualcomm Snapdragon X20 LTE M.2 Mobile Broadband Card
---

# External Ports and connectors

Table 14. External Ports and connectors

Feature	Specifications
Memory card reader	microSD 4.0
Smart card reader	Optional
USB	<ul style="list-style-type: none"><li>Two USB 3.1 Gen 1 Type-A port with Power on/Wake-up/Power share support</li><li>Two USB 3.2 Gen 1 Thunderbolt 3 capable Type-C port with Power delivery</li></ul>
Security	Noble wedge slot
Docking port	Thunderbolt 3 over USB Type-C
Audio	<ul style="list-style-type: none"><li>Universal audio jack</li><li>Noise reduction array microphones</li></ul>
Video	HDMI 1.4
SIM card reader	One micro SIM card reader (WWAN version only)

## Smart card reader

Table 15. Contactless smart card reader

Type	FIPS 201 Contacted / Contactless Smart Card reader
ISO certification	ISO14443A

## Display specifications

Table 16. Display specifications

Feature	Specifications
Type	14 inch FHD (1920 x 1080), AR + AS (16:9) IPS SLP narrow bent touch screen (10 finger and Active Stylus capable) with Gorilla Glass v5
Height (Active area)	6.85 inch (173.99 mm)
Width (Active area)	12.18 inch (309.31 mm)
Diagonal	14 inch (354.89 mm)
Borders (AA to Glass)	<ul style="list-style-type: none"><li>Top: 6.02 mm</li><li>Bottom: 8.8 mm</li></ul>

Feature	Specifications
	<ul style="list-style-type: none"> <li>Sides: 3.73 mm</li> </ul>
Luminance/Brightness (typical)	<ul style="list-style-type: none"> <li>300 nits at 1.63 W (in mosaic pattern)</li> <li>150 nits at 1.17 W</li> </ul>
Refresh rate	60 Hz
Horizontal viewing angle (min)	+/- 89 degrees
Vertical viewing angle (min)	+/- 89 degrees
Megapixels	2.07
Pixels Per Inch (PPI)	157
Pixel pitch	0.161 mm
Color depth	16.2 M
Contrast ratio (typical)	1500:1
Response time (max)	35 ms
Stylus support	Yes, Active

## Keyboard

**Table 17. Keyboard specifications**

Feature	Specifications
Number of keys	<ul style="list-style-type: none"> <li>83 keys: US English, Thai, French-Canadian, Korean, Russian, Hebrew, English-International</li> <li>84 keys: UK English, French Canadian Quebec, German, French, Spanish (Latin America), Nordic, Arabic, Canada Bilingual</li> <li>85 keys: Brazilian Portuguese</li> <li>87 keys: Japanese</li> </ul>
Size	<ul style="list-style-type: none"> <li>X = 19.05 mm key pitch</li> <li>Y = 18.05 mm key pitch</li> <li>Z = 4.15 mm</li> </ul>
Backlit keyboard	Yes
Layout	QWERTY/AZERTY/Kanji

# Touchpad

Table 18. Touchpad Specifications

Feature	Specifications
Resolution	<ul style="list-style-type: none"><li>Horizontal: 1235</li><li>Vertical: 695</li></ul>
Dimensions	<ul style="list-style-type: none"><li>Width: 4.13 inch (105 mm)</li><li>Height: 2.36 inch (60 mm)</li></ul>
Multi-touch	Supports five fingers multi-touch

**NOTE:** Touchpad has the optional NFC sensor.

## Operating system

Table 19. Operating system

Feature	Specifications
Operating systems supported	<ul style="list-style-type: none"><li>Microsoft Windows 10 Professional (64 bit)</li><li>Microsoft Windows 10 Home (64 bit)</li></ul>

## Battery

Table 20. Battery Specifications

Feature	Specifications
Type	<ul style="list-style-type: none"><li>52 WHr lithium-polymer 4 cell battery</li><li>78 WHr lithium-polymer 6 cell battery</li></ul>
Dimension	<ol style="list-style-type: none"><li>52 WHr<ul style="list-style-type: none"><li>Length: 250 mm (9.84 inch)</li><li>Width: 85.80 mm (3.38 inch)</li><li>Height: 4.99 mm (0.20 inch)</li><li>Weight: 236.00 g (0.52 lb)</li></ul></li><li>78 WHr<ul style="list-style-type: none"><li>Length: 301.67 mm (11.88 inch)</li><li>Width: 111.36 mm (4.38 inch)</li><li>Height: 9.09 mm (0.36 inch)</li><li>Weight: 340 g (0.75 lb)</li></ul></li></ol>
Weight (maximum)	<ol style="list-style-type: none"><li>52 WHr - 236 g (0.52 lb)</li><li>78 WHr - 340 g (0.75 lb)</li></ol>
Voltage	<ul style="list-style-type: none"><li>52 WHr - 7.6 V</li></ul>

Feature	Specifications
	<ul style="list-style-type: none"> <li>78 WHr - 11.4 V</li> </ul>
Life span	52 WHr - 300 discharge/recharge cycles
Charging time when the computer is off (approximate)	<ul style="list-style-type: none"> <li>0~15°C: 4 Hours</li> <li>16~45°C: 2 Hours</li> <li>46~60°C: 3 Hours</li> </ul>
Operating time	<ol style="list-style-type: none"> <li>52 WHr - &gt;= 14 Hours</li> <li>78 WHr - &gt;= 24 Hours</li> </ol> <p><b>NOTE: Operating time varies depending on operating conditions and can significantly reduce under certain power-intensive conditions,</b></p>
Temperature range: Operating	<ul style="list-style-type: none"> <li>Charge: 0°C to 45°C (32°F to 113°F)</li> <li>Discharge: 0°C to 70°C (32°F to 158°F)</li> </ul>
Temperature range: Storage	-20°C to 65°C (-4°F to 149°F)
Coin-cell battery	ML1220
Dell Power Manager Capable	Yes, DPM 3.0

## Power adapter

Table 21. Power adapter specifications

Feature	Specifications
Type	<ul style="list-style-type: none"> <li>65 W (4-cell 52 Whr)</li> <li>90 W (6-cell 78 Whr) USB Type-C</li> <li>Via Dock supporting a NVDC charger architecture</li> </ul>
Input Voltage	100 V ca to 240 V ca
Input current (maximum)	1.7 A/1.5 A
Adapter size	<ul style="list-style-type: none"> <li>65 W: 22 mm x 66 mm x 99 mm (0.87 inch x 2.6 inch x 3.9 inch)</li> <li>90 W: 22 mm x 66 mm x 130 mm (0.87 inch x 2.6 inch x 5.12 inch)</li> </ul>
Input frequency	50 Hz to 60 Hz
Output current	<ul style="list-style-type: none"> <li>65 W - 3.25 A (continuous)</li> <li>90 W - 4.5 A (continuous)</li> </ul>
Rated output voltage	20 VDC
Temperature range (Operating)	0°C to 40°C (32°F to 104°F)
Temperature range (Non-Operating)	40°C to 70°C (-40°F to 158°F)

# Physical system dimensions

**Table 22. Dimensions and weight**

Feature	Specifications
Height	Front height - 0.34 inch (8.53 mm) Back height - 0.59 inch (14.89 mm)
Width	12.59 inch (319.77 mm)
Depth	7.89 inch (199.90 mm)
Weight	Starting 2.99 lb (1.36 kg)

## Computer environment

**Airborne contaminant level:** G1 as defined by ISA-S71.04-1985

**Table 23. Computer environment**

	Operating	Storage
Temperature range	0°C to 35°C (32°F to 95°F)	-40°C to 65°C (-40°F to 149°F)
Relative humidity (maximum)	10% to 80% (non-condensing)	10% to 95% (non-condensing)
	<b>i</b>   <b>NOTE: Maximum dew point temperature = 26°C</b>	<b>i</b>   <b>NOTE: Maximum dew point temperature = 33°C</b>
Vibration (maximum)	0.26 GRMS	1.37 GRMS
Shock (maximum)	105 G <sup>†</sup>	40 G <sup>‡</sup>
Altitude (maximum)	-15.2 m to 3048 m (-50 ft to 10,000 ft)	-15.2 m to 10,668 m (-50 ft to 35,000 ft)

\* Measured using a random vibration spectrum that simulates user environment.

## NFC

**Table 24. NFC Specifications**

<b>NFC: Near Field Communications</b>	
NFC Standard	ISO/IEC 18092 and ISO/IEC 21481
Cards Supported	Type1 / Type 2 / Type 3 / Type 4; ISO/IEC 14443-4 stands-based PICC; ISO/IEC 15693 stands-based VICC ; ISO/IEC 18000-3 ; Kovic
Operating temperature	-30°C to +85° C
Humidity	Up to 90% RH non-condensing (at temperatures of 25°C to 35°C)

# Fingerprint reader

This is an optional feature with the Latitude 7400 2-in-1, located on the power button.

**Table 25. Fingerprint reader specifications**

Description	Values
Sensor technology	Touch
Sensor resolution	363 dpi
Sensor area	7.4 mm x 6 mm

## Security

**Table 26. Security options**

Trusted Platform Module (TPM) 2.0	Discreet TPM 2.0 IC FIPS-140-2 Certified / TCG Certified
Firmware TPM	Optional
Chassis lock slot and loop support	Yes, Noble wedge lock slot
Finger print Reader	Optional, on Power button (Windows Hello compliant)
Contacted / Contactless Smartcard	Optional
Optional Security Hardware Authentication Bundles	<ul style="list-style-type: none"><li>• Touch Fingerprint Reader (in Power Button) with Control Vault 3.0 Advanced Authentication with FIPS 140-2 Level 3 Certification</li><li>• Contacted Smart Card and Control Vault 3 Advanced Authentication with FIPS 140-2 Level 3 Certification</li><li>• Touch Fingerprint Reader (in Power Button), Contacted Smart Card, and Control Vault 3 Advanced Authentication with FIPS 140-2 Level 3 Certification</li><li>• Touch Fingerprint Reader in Power Button, Contacted Smart Card, Contactless Smart Card, NFC, and Control Vault 3 Advanced Authentication with FIPS 140-2 Level 3 Certification</li><li>• Optional Face IR camera (Windows Hello compliant) with Proximity Sensor</li></ul>

## Regulatory and Environmental Compliance

**Table 27. Regulatory and Environmental Compliance specifications**

- Energy Star Version 7
- EPEAT Bronze Registered\*
- TAA configurations available
- Halogen-Free/Arsenic-Free
- BFR/PVC free (not including PSU)

\* : For specific country participation and rating, please see <https://ww2.epeat.net/>

# System setup

**CAUTION:** Unless you are an expert computer user, do not change the settings in the BIOS Setup program. Certain changes can make your computer work incorrectly.

**NOTE:** Before you change BIOS Setup program, it is recommended that you write down the BIOS Setup program screen information for future reference.

Use the BIOS Setup program for the following purposes:

- Get information about the hardware installed in your computer, such as the amount of RAM and the size of the hard drive.
- Change the system configuration information.
- Set or change a user-selectable option, such as the user password, type of hard drive installed, and enabling or disabling base devices.

Topics:

- [Boot menu](#)
- [Navigation keys](#)
- [Boot Sequence](#)
- [System setup options](#)
- [Updating the BIOS in Windows](#)
- [System and setup password](#)
- [Proximity sensor](#)

## Boot menu

Press <F12> when the Dell logo appears to initiate a one-time boot menu with a list of the valid boot devices for the system. Diagnostics and BIOS Setup options are also included in this menu. The devices listed on the boot menu depend on the bootable devices in the system. This menu is useful when you are attempting to boot to a particular device or to bring up the diagnostics for the system. Using the boot menu does not make any changes to the boot order stored in the BIOS.


The options are:

- UEFI Boot:
  - Windows Boot Manager
- Other Options:
  - BIOS Setup
  - BIOS Flash Update
  - Diagnostics
  - Change Boot Mode Settings

## Navigation keys

**NOTE:** For most of the System Setup options, changes that you make are recorded but do not take effect until you restart the system.



Keys	Navigation
Up arrow	Moves to the previous field.
Down arrow	Moves to the next field.
Enter	Selects a value in the selected field (if applicable) or follow the link in the field.
Spacebar	Expands or collapses a drop-down list, if applicable.
Tab	Moves to the next focus area.
	 <b>NOTE: For the standard graphics browser only.</b>
Esc	Moves to the previous page until you view the main screen. Pressing Esc in the main screen displays a message that prompts you to save any unsaved changes and restarts the system.

## Boot Sequence

Boot Sequence allows you to bypass the System Setup–defined boot device order and boot directly to a specific device (for example: optical drive or hard drive). During the Power-on Self Test (POST), when the Dell logo appears, you can:

- Access System Setup by pressing F2 key
- Bring up the one-time boot menu by pressing F12 key

The one-time boot menu displays the devices that you can boot from including the diagnostic option. The boot menu options are:

- Removable Drive (if available)
- STXXXX Drive

 **NOTE: XXX denotes the SATA drive number.**

- Optical Drive (if available)
- SATA Hard Drive (if available)
- Diagnostics

 **NOTE: Choosing Diagnostics, will display the ePSA diagnostics screen.**

The boot sequence screen also displays the option to access the System Setup screen.

## System setup options

 **NOTE: Depending on the laptop and its installed devices, the items listed in this section may or may not appear.**

## General options

**Table 28. General**

Option	Description
<b>System Information</b>	<p>This section lists the primary hardware features of your computer.</p> <p>The options are:</p> <ul style="list-style-type: none"> <li>• <b>System Information</b></li> <li>• <b>Memory Configuration</b></li> <li>• <b>Processor Information</b></li> </ul>

Option	Description
<b>Battery Information</b>	<ul style="list-style-type: none"> <li>• <b>Device Information</b></li> </ul> <p>Displays the battery status and the type of AC adapter connected to the computer.</p>
<b>Boot Sequence</b>	<p>Allows you to change the order in which the computer attempts to find an operating system.</p> <p>The options are:</p> <ul style="list-style-type: none"> <li>• <b>Windows Boot Manager</b></li> <li>• <b>Boot List Option:</b> Allows you to change the boot list options.  Click one of the following options: <ul style="list-style-type: none"> <li>– <b>Legacy External Devices</b></li> <li>– <b>UEFI</b>—Default</li> </ul> </li> </ul>
<b>Advanced Boot Options</b>	<p>Allows you to Enable Legacy Option ROMs.</p> <p>The options are:</p> <ul style="list-style-type: none"> <li>• <b>Enable Legacy Option ROMs</b>—Default</li> <li>• <b>Enable Attempt Legacy Boot</b></li> </ul>
<b>UEFI Boot Path Security</b>	<p>Allows you to control whether the system prompts the user to enter the Admin password when booting to a UEFI boot path.</p> <p>Click one of the following options:</p> <ul style="list-style-type: none"> <li>• <b>Always, Except Internal HDD</b>—Default</li> <li>• <b>Always</b></li> <li>• <b>Never</b></li> </ul>
<b>Date/Time</b>	<p>Allows you to set the date and time. The change to the system date and time takes effect immediately.</p>

## System configuration

Table 29. System Configuration

Option	Description
<b>SATA Operation</b>	<p>Allows you to configure the operating mode of the integrated SATA hard-drive controller.</p> <p>Click one of the following options:</p> <ul style="list-style-type: none"> <li>• <b>Disabled</b></li> <li>• <b>AHCI</b>—Default</li> </ul>
<b>Drives</b>	<p>These fields let you enable or disable various drives on board.</p> <p>The options are:</p> <ul style="list-style-type: none"> <li>• <b>SATA-2</b></li> <li>• <b>M.2 PCIe SSD-0</b></li> </ul>

Option	Description
<b>SMART Reporting</b>	<p>This field controls whether hard drive errors for integrated drives are reported during startup.</p> <p>The option is disabled by default.</p>
<b>USB Configuration</b>	<p>Allows you to enable or disable the internal/integrated USB configuration.</p> <p>The options are:</p> <ul style="list-style-type: none"> <li>• <b>Enable USB Boot Support</b></li> <li>• <b>Enable External USB Ports</b></li> </ul> <p>All the options are set by default.</p>
<b>Dell Type-C Dock Configuration</b>	<p>Allows you to connect to Dell WD and TB family of docks (Type-C Docks) independent of USB and thunderbolt adapter configuration.</p> <p>This option is enabled by default.</p>
<b>Thunderbolt™ Adapter Configuration</b>	<p>Allows you to enable or disable Thunderbolt options:</p> <ul style="list-style-type: none"> <li>• <b>Thunderbolt (Enabled by Default)</b></li> <li>• <b>Enable Thunderbolt Boot Support</b></li> <li>• <b>Enable Thunderbolt (and PCIe behind TBT) Pre-boot</b></li> </ul>
<b>Thunderbolt™ Auto Switch</b>	<p>With following security levels :</p> <ul style="list-style-type: none"> <li>• <b>No Security</b></li> <li>• <b>User Authentication (Enabled by Default)</b></li> <li>• <b>Secure Connect</b></li> <li>• <b>Display Port and USB Only</b></li> </ul> <p>This option configures the method used by the Thunderbolt controller to perform PCIe device enumeration.</p> <ul style="list-style-type: none"> <li>• <b>Auto Switch</b> : The BIOS will automatically switch between BIOS Assist and Native Thunderbolt PC device enumeration modes to get all benefits of the installed OS</li> <li>• <b>Native Enumeration</b>: The BIOS will program the Thunderbolt controller to Native mode ( Auto Switching is disabled)</li> <li>• <b>BIOS Assist Enumeration</b>: The BIOS will program the Thunderbolt controller to BIOS Assist mode ( Auto Switching is disabled)</li> </ul> <p><b>NOTE: A reboot is required for these changes to take effect.</b></p>
<b>USB PowerShare</b>	<p>This option enable/disable the USB PowerShare feature behavior.</p> <p>This option is disabled by default.</p>
<b>Audio</b>	<p>Allows you to enable or disable the integrated audio controller. By default, the <b>Enable Audio</b> option is selected.</p> <p>The options are:</p> <ul style="list-style-type: none"> <li>• <b>Enable Microphone</b></li> <li>• <b>Enable Internal Speaker</b></li> </ul>

Option	Description
<b>Keyboard Illumination</b>	<p>This option is set by default.</p> <p>This field lets you choose the operating mode of the keyboard illumination feature.</p> <ul style="list-style-type: none"> <li>• <b>Disabled:</b> The Keyboard illumination will always be off or 0%.</li> <li>• <b>Dim:</b> Enable the keyboard illumination feature at 50% brightness.</li> <li>• <b>Bright:</b> Enable the keyboard illumination feature at 100% brightness level.</li> </ul>
<b>Keyboard Backlight Timeout on AC</b>	<p>This feature defines the timeout value for the keyboard backlight when an AC adapter is plugged into the system.</p> <p>Options are:</p> <ul style="list-style-type: none"> <li>• <b>5 seconds</b></li> <li>• <b>10 seconds</b>(Default)</li> <li>• <b>15 seconds</b></li> <li>• <b>30 seconds</b></li> <li>• <b>1 minute</b></li> <li>• <b>5 minute</b></li> <li>• <b>15 minute</b></li> <li>• <b>Never</b></li> </ul>
<b>Keyboard Backlight Timeout on Battery</b>	<p>This feature defines the timeout value for the keyboard backlight when the system is running only on battery power.</p> <p>Options are:</p> <ul style="list-style-type: none"> <li>• <b>5 seconds</b></li> <li>• <b>10 seconds</b>(Default)</li> <li>• <b>15 seconds</b></li> <li>• <b>30 seconds</b></li> <li>• <b>1 minute</b></li> <li>• <b>5 minute</b></li> <li>• <b>15 minute</b></li> <li>• <b>Never</b></li> </ul>
<b>Touchscreen</b>	<p>This option controls whether the touchscreen is enabled or disabled</p> <p>This option is enabled by default.</p>
<b>Unobtrusive Mode</b>	<p>When enabled, pressing Fn+F7 will turn off all light and sound emission in the system. Press Fn+F7 to resume normal operation.</p> <p>Default is Disabled.</p>
<b>Fingerprint Reader</b>	<p>Enable or disable the Fingerprint Reader or the Fingerprint Reader Device's Single Sign On capability.</p> <ul style="list-style-type: none"> <li>• <b>Enable Fingerprint Reader Device:</b> Enabled by Default</li> <li>• <b>Enable Fingerprint Reader Single Sign On:</b> Enabled by Default</li> </ul>
<b>Miscellaneous devices</b>	<p>Allows you to enable or disable various on board devices.</p> <ul style="list-style-type: none"> <li>• <b>Enable Camera</b>—Default</li> <li>• <b>Enable Secure Digital (SD) Card</b></li> <li>• <b>Secure Digital (SD) Card Boot</b> - Disabled</li> </ul>

Option	Description
	<ul style="list-style-type: none"> <li>Secure Digital Card (SD) Read-Only Mode - Disabled</li> </ul>

## Video screen options

Table 30. Video


Option	Description
LCD Brightness	Allows you to set the display brightness depending upon the power source. On Battery(50% is default) and On AC (100 % default).
Dynamic Backlight Control	This option Enables or Disables the Dynamic Backlight Control if the Panel supports this feature.

## Security

Table 31. Security

Option	Description
Admin Password	<p>Allows you to set, change, or delete the administrator(admin) password.</p> <p>The entries to set password are:</p> <ul style="list-style-type: none"> <li>Enter the old password:</li> <li>Enter the new password:</li> <li>Confirm new password:</li> </ul> <p>Click <b>OK</b> once you set the password.</p> <p><b>NOTE:</b> For the first time login, "Enter the old password:" field is marked to "Not set". Hence, password has to be set for the first time you login and then you can change or delete the password.</p>
System Password	<p>Allows you to set, change, or delete the System password.</p> <p>The entries to set password are:</p> <ul style="list-style-type: none"> <li>Enter the old password:</li> <li>Enter the new password:</li> <li>Confirm new password:</li> </ul> <p>Click <b>OK</b> once you set the password.</p> <p><b>NOTE:</b> For the first time login, "Enter the old password:" field is marked to "Not set". Hence, password has to be set for the first time you login and then you can change or delete the password.</p>
Strong Password	<p>Allows you to enforce the option to always set strong password.</p> <ul style="list-style-type: none"> <li>Enable Strong Password</li> </ul> <p>This option is not set by default.</p>
Password Configuration	You can define the length of your password. Min = 4, Max = 32

Option	Description
<b>Password Bypass</b>	<p>Allows you to bypass the System password and the Internal HDD password, when it is set, during a system restart.</p> <p>Click one of the options:</p> <ul style="list-style-type: none"> <li>• <b>Disabled</b>—Default</li> <li>• <b>Reboot bypass</b></li> </ul>
<b>Password Change</b>	<p>Allows you to change the System password when the administrator password is set.</p> <ul style="list-style-type: none"> <li>• <b>Allow Non-Admin Password Changes</b></li> </ul> <p>This option is set by default.</p>
<b>Non-Admin Setup Changes</b>	<p>Allows you to determine whether changes to the setup options are allowed when an Administrator Password is set. If disabled the setup options are locked by the admin password.</p> <ul style="list-style-type: none"> <li>• <b>Allow Wireless Switch Changes</b></li> </ul> <p>This option is not set by default.</p>
<b>UEFI Capsule Firmware Updates</b>	<p>Allows you to update the system BIOS via UEFI capsule update packages.</p> <ul style="list-style-type: none"> <li>• <b>Enable UEFI Capsule Firmware Updates</b></li> </ul> <p>This option is set by default.</p>
<b>TPM 2.0 Security</b>	<p>Allows you to enable or disable the Trusted Platform Module (TPM) during POST.</p> <p>The options are:</p> <ul style="list-style-type: none"> <li>• <b>TPM On</b>—Default</li> <li>• <b>Clear</b></li> <li>• <b>PPI Bypass for Enable Command</b>—Default</li> <li>• <b>PPI Bypass for Disable Command</b></li> <li>• <b>PPI Bypass for Clear Command</b></li> <li>• <b>Attestation Enable</b>—Default</li> <li>• <b>Key Storage Enable</b>—Default</li> <li>• <b>SHA-256</b>—Default</li> </ul>
<b>Absolute®</b>	<p>This field lets you Enable, Disable, or Permanently Disable the BIOS module interface of the optional Absolute Persistence Module service from Absolute® Software.</p>
<b>OROM Keyboard Access</b>	<p>This option determines whether users are able to enter Option ROM Configuration screens via hotkey during boot. Specifically this settings is capable of preventing access to Intel® RAID(Ctrl+I) or Intel® Management Engine BIOS Extension (Ctrl+P/F12).</p> <p>Options are:</p> <ul style="list-style-type: none"> <li>• <b>Enable</b></li> <li>• <b>One Time Enable</b></li> <li>• <b>Disable</b></li> </ul>
<b>Admin Setup Lockout</b>	<p>Allows you to prevent users from entering Setup when an administrator password is set.</p> <ul style="list-style-type: none"> <li>• <b>Enable Admin Setup Lockout</b></li> </ul> <p>This option is not set by default.</p>
<b>Master Password Lockout</b>	<p>Allows you to disable master password support.</p> <ul style="list-style-type: none"> <li>• <b>Enable Master Password Lockout</b></li> </ul>

Option	Description
	<p>This option is not set by default.</p> <p>   <b>NOTE: Hard Disk password should be cleared before the settings can be changed.</b></p>
<b>SMM Security Mitigation</b>	<p>Allows you to enable or disable additional UEFI SMM Security Mitigation protection.</p> <ul style="list-style-type: none"> <li>• <b>SMM Security Mitigation</b></li> </ul> <p>This option is not set by default.</p>

## Secure boot

Table 32. Secure Boot

Option	Description
<b>Secure Boot Enable</b>	<p>Allows you to enable or disable the Secure Boot Feature.</p> <ul style="list-style-type: none"> <li>• <b>Secure Boot Enable</b>—Default</li> </ul>
<b>Secure Boot Mode</b>	<p>Changes to the Secure Boot operation mode modifies the behaviour of Secure Boot to allow evaluation of UEFI driver signatures.</p> <p>Choose one of the option:</p> <ul style="list-style-type: none"> <li>• <b>Deployed Mode</b>—Default</li> <li>• <b>Audit Mode</b></li> </ul>
<b>Expert Key Management</b>	<p>Allows you to enable or disable Expert Key Management.</p> <ul style="list-style-type: none"> <li>• <b>Enable Custom Mode</b></li> </ul> <p>This option is not set by default.</p> <p>The Custom Mode Key Management options are:</p> <ul style="list-style-type: none"> <li>• <b>PK</b>—Default</li> <li>• <b>KEK</b></li> <li>• <b>db</b></li> <li>• <b>dbx</b></li> </ul>

## Intel Software Guard Extensions options

Table 33. Intel Software Guard Extensions

Option	Description
<b>Intel SGX Enable</b>	<p>This field specifies you to provide a secured environment for running code/storing sensitive information in the context of the main OS.</p> <p>Click one of the following options:</p> <ul style="list-style-type: none"> <li>• <b>Disabled</b></li> <li>• <b>Enabled</b></li> </ul>

Option	Description
<b>Enclave Memory Size</b>	<ul style="list-style-type: none"> <li>• <b>Software controlled</b>—Default</li> </ul> <p>This option sets <b>SGX Enclave Reserve Memory Size</b></p> <p>Click one of the following options:</p> <ul style="list-style-type: none"> <li>• <b>32 MB</b></li> <li>• <b>64 MB</b></li> <li>• <b>128 MB</b>—Default</li> </ul>

## Performance

Table 34. Performance


Option	Description
<b>Multi Core Support</b>	<p>This field specifies whether the process has one or all cores enabled. The performance of some applications improves with the additional cores.</p> <ul style="list-style-type: none"> <li>• <b>All</b>—Default</li> <li>• <b>1</b></li> <li>• <b>2</b></li> <li>• <b>3</b></li> </ul>
<b>Intel SpeedStep</b>	<p>Allows you to enable or disable the Intel SpeedStep mode of processor.</p> <ul style="list-style-type: none"> <li>• <b>Enable Intel SpeedStep</b></li> </ul> <p>This option is set by default.</p>
<b>C-States Control</b>	<p>Allows you to enable or disable the additional processor sleep states.</p> <ul style="list-style-type: none"> <li>• <b>C states</b></li> </ul> <p>This option is set by default.</p>
<b>Intel® TurboBoost™</b>	<p>This option enables or disables the Intel® TurboBoost™ mode of the processor</p>
<b>Hyper-Thread Control</b>	<p>Allows you to enable or disable the HyperThreading in the processor.</p> <ul style="list-style-type: none"> <li>• <b>Disabled</b></li> <li>• <b>Enabled</b>—Default</li> </ul>



# Power management

Table 35. Power Management

Option	Description
<b>AC Behavior</b>	<p>Allows you to enable or disable the computer from turning on automatically when an AC adapter is connected.</p> <ul style="list-style-type: none"><li>• <b>Wake on AC</b></li></ul> <p>This option is not set by default.</p>
<b>Enable Intel Speed Shift technology</b>	<p>This option is used to enable/disable Intel Speed Shift Technology.</p> <p>This option is not set by default.</p>
<b>Auto On Time</b>	<p>Allows you to set the time at which the computer must turn on automatically.</p> <p>The options are:</p> <ul style="list-style-type: none"><li>• <b>Disabled</b>—Default</li><li>• <b>Every Day</b></li><li>• <b>Weekdays</b></li><li>• <b>Select Days</b></li></ul> <p>This option is not set by default.</p>
<b>USB Wake Support</b>	<p>Allows you to enable USB devices to wake the system from standby.</p> <ul style="list-style-type: none"><li>• <b>Enable USB Wake Support</b></li><li>• <b>Wake on Dell USB-C Dock</b></li></ul> <p>This option is not set by default.</p>
<b>Wireless Radio Control</b>	<p>This option if enabled, will sense the connection of the system to a wired network and subsequently disable the selected wireless radios (WLAN and/or WWAN). Upon disconnection from the wired network the selected wireless radio will be enabled.</p> <ul style="list-style-type: none"><li>• <b>Control WLAN radio</b></li></ul> <p>This option is not set by default.</p>
<b>Block Sleep</b>	<p>This option lets you to block entering to sleep in OS environment.</p> <p>This option is not set by default.</p>
<b>Peak Shift</b>	<p>Allows you enable or disable the Peak shift feature. This feature when enabled minimizes the AC power usage at times of peak demand. Battery does not charge between the Peak Shift start and end time</p> <p>Peak Shift Start and End Time can be configured for all weekdays</p> <p>This option set the battery threshold value (15 % to 100 %)</p>
<b>Advanced Battery Charge Configuration</b>	<p>This option enables you to maximize the battery health. By enabling this option, your system uses the standard charging algorithm and other techniques, during the non-work hours to improve the battery health.</p> <p>Advanced Battery Charge Mode can be configured for all weekdays</p>

Option	Description
<b>Primary Battery Charge Configuration</b>	<p>Allows you to select the charging mode for the battery.</p> <p>The options are:</p> <ul style="list-style-type: none"> <li>• <b>Adaptive</b>—Default</li> <li>• <b>Standard</b> - Fully charges your battery at a standard rate.</li> <li>• <b>ExpressCharge</b>- The battery charges over a shorter period of time using Dell's fast charging technology.</li> <li>• <b>Primarily AC use</b></li> <li>• <b>Custom</b></li> </ul> <p>If Custom Charge is selected, you can also configure Custom Charge Start and Custom Charge Stop.</p> <p>   <b>NOTE: All charging mode may not be available for all the batteries.</b></p>

## Post behavior

Table 36. POST Behavior

Option	Description
<b>Adapter Warnings</b>	<p>Allows you to enable or disable the system setup (BIOS) warning messages when you use certain power adapters.</p> <ul style="list-style-type: none"> <li>• <b>Enable Adapter Warnings</b>—Default</li> </ul>
<b>Numlock Enable</b>	<p>Allows you to enable or disable the Numlock function when the system boots.</p> <ul style="list-style-type: none"> <li>• <b>Enable Numlock</b>—Default</li> </ul>
<b>Fn Lock Options</b>	<p>Allows you to let hot key combinations Fn + Esc toggle the primary behavior of F1–F12, between their standard and secondary functions. If you disable this option, you cannot toggle dynamically the primary behavior of these keys.</p> <ul style="list-style-type: none"> <li>• <b>Fn Lock</b>—Default</li> </ul> <p>Click one of the following options:</p> <ul style="list-style-type: none"> <li>• <b>Lock Mode Disable/Standard</b></li> <li>• <b>Lock Mode Enable/Secondary</b>—Default</li> </ul>
<b>Fastboot</b>	<p>Allows you to speed up the boot process by bypassing some of the compatibility steps.</p> <p>Click one of the following options:</p> <ul style="list-style-type: none"> <li>• <b>Minimal</b>—Default</li> <li>• <b>Thorough</b></li> <li>• <b>Auto</b></li> </ul>
<b>Extended BIOS POST Time</b>	<p>Allows you to create an additional preboot delay.</p> <p>Click one of the following options:</p> <ul style="list-style-type: none"> <li>• <b>0 seconds</b>—Default</li> <li>• <b>5 seconds</b></li> <li>• <b>10 seconds</b></li> </ul>

Option	Description
<b>Full Screen Logo</b>	<p>Allows you to display full screen logo, if your image matches screen resolution.</p> <ul style="list-style-type: none"> <li>• <b>Enable Full Screen Logo</b></li> </ul> <p>This option is not set by default.</p>
<b>Warnings and Errors</b>	<p>Allows you to select different options to either stop, prompt and wait for user input, continue when warnings are detected but pause on errors, or continue when either warnings or errors are detected during the POST process.</p> <p>Click one of the following options:</p> <ul style="list-style-type: none"> <li>• <b>Prompt on Warnings and Errors</b>—Default</li> <li>• <b>Continue on Warnings</b></li> <li>• <b>Continue on Warnings and Errors</b></li> </ul>
<b>Sign of Life Indicator</b>	<p>This option allows system to indicate during the POST that the power button has been acknowledged in a manner the user can either hear or feel.</p> <ul style="list-style-type: none"> <li>• <b>Enable Sign of Life Audio Indication</b></li> <li>• <b>Enable Sign of Life Display Indication</b></li> <li>• <b>Enable Sign of Life Keyboard Backlight Indication</b></li> </ul>

## Manageability

Table 37. Manageability

Option	Description
<b>USB Provision</b>	When enabled Intel AMT can be provisioned using the local provisioning file via a USB storage device
<b>MEBx Hotkey</b>	This option specifies whether the MEBx Hotkey function should be enabled when the system boots.

## Virtualization support

Table 38. Virtualization Support

Option	Description
<b>Virtualization</b>	<p>This option specifies whether a Virtual Machine Monitor (VMM) can utilize the additional hardware capabilities provided by the Intel Virtualization technology.</p> <ul style="list-style-type: none"> <li>• <b>Enable Intel Virtualization Technology</b></li> </ul> <p>This option is set by default.</p>
<b>VT for Direct I/O</b>	<p>Enables or disables the Virtual Machine Monitor (VMM) from utilizing the additional hardware capabilities provided by the Intel Virtualization technology for direct I/O.</p> <ul style="list-style-type: none"> <li>• <b>Enable VT for Direct I/O</b></li> </ul> <p>This option is set by default.</p>

Option	Description
<b>Trusted Execution</b>	<p>This option specifies whether a Measured Virtual Machine Monitor (MVMM) can utilize the additional hardware capabilities provided by Intel® Trusted Execution Technology.</p> <p><b>NOTE:</b> The TPM has to be enabled and activated and Virtualization Technology and VT for Direct I/O must be enabled to use this feature.</p>

## Wireless options


Table 39. Wireless

Option	Description
<b>Wireless Switch</b>	<p>Allows to set the wireless devices that can be controlled by the wireless switch.</p> <p>The options are:</p> <ul style="list-style-type: none"> <li>• <b>WWAN</b></li> <li>• <b>GPS (on WWAN Module)</b></li> <li>• <b>WLAN</b></li> <li>• <b>Bluetooth®</b></li> </ul> <p>All the options are enabled by default.</p>
<b>Wireless Device Enable</b>	<p>Allows you to enable or disable the internal wireless devices.</p> <p>The options are:</p> <ul style="list-style-type: none"> <li>• <b>WWAN/GPS</b></li> <li>• <b>WLAN</b></li> <li>• <b>Bluetooth®</b></li> <li>• <b>Contactless Smartcard/ NFC</b></li> </ul> <p>All the options are enabled by default.</p>

## Maintenance

Table 40. Maintenance

Option	Description
<b>Service Tag</b>	Displays the service tag of your computer.
<b>Asset Tag</b>	<p>Allows you to create a system asset tag if an asset tag is not already set.</p> <p>This option is not set by default.</p>
<b>BIOS Downgrade</b>	<p>Allows you to flash previous revisions of the system firmware.</p> <ul style="list-style-type: none"> <li>• <b>Allow BIOS Downgrade</b></li> </ul> <p>This option is set by default.</p>

Option	Description
<b>Data Wipe</b>	Allows you to securely erase data from all internal storage devices. <ul style="list-style-type: none"> <li>• <b>Wipe on Next Boot</b></li> </ul> This option is not set by default.
<b>Bios Recovery</b>	<p><b>BIOS Recovery from Hard Drive</b>—This option is set by default. Allows you to recover the corrupted BIOS from a recovery file on the HDD or an external USB key.</p> <p><b>BIOS Auto-Recovery</b>— Allows you to recover the BIOS automatically.</p> <p> <b>NOTE: BIOS Recovery from Hard Drive field should be enabled.</b></p> <p><b>Always Perform Integrity Check</b>—Performs integrity check on every boot.</p>

## System logs

Table 41. System Logs

Option	Description
<b>BIOS events</b>	Allows you to view and clear the System Setup (BIOS) POST events.
<b>Thermal Events</b>	Allows you to view and clear the System Setup (Thermal) events.
<b>Power Events</b>	Allows you to view and clear the System Setup (Power) events.

## Updating the BIOS in Windows

### Prerequisite


It is recommended to update your BIOS (System Setup), when you replace the system board or if an update is available. For laptops, ensure that your computer battery is fully charged and connected to a power outlet.

### About this task

 **NOTE: If BitLocker is enabled, it must be suspended prior to updating the system BIOS, and then re-enabled after the BIOS update is completed.**

### Steps

- 1 Restart the computer.
- 2 Go to **Dell.com/support**.
  - Enter the **Service Tag** or **Express Service Code** and click **Submit**.
  - Click **Detect Product** and follow the instructions on screen.
- 3 If you are unable to detect or find the Service Tag, click **Choose from all products**.
- 4 Choose the **Products** category from the list.

 **NOTE: Choose the appropriate category to reach the product page**
- 5 Select your computer model and the **Product Support** page of your computer appears.
- 6 Click **Get drivers** and click **Drivers and Downloads**.  
The Drivers and Downloads section opens.
- 7 Click **Find it myself**.
- 8 Click **BIOS** to view the BIOS versions.
- 9 Identify the latest BIOS file and click **Download**.
- 10 Select your preferred download method in the **Please select your download method below** window, click **Download File**.

The **File Download** window appears.

- 11 Click **Save** to save the file on your computer.
- 12 Click **Run** to install the updated BIOS settings on your computer.  
Follow the instructions on the screen.

## Updating BIOS on systems with BitLocker enabled

**CAUTION:** If BitLocker is not suspended before updating the BIOS, the next time you reboot the system it will not recognize the BitLocker key. You will then be prompted to enter the recovery key to progress and the system will ask for this on each reboot. If the recovery key is not known this can result in data loss or an unnecessary operating system re-install. For more information on this subject, see Knowledge Article: <https://www.dell.com/support/article/sln153694>

## Updating your system BIOS using a USB flash drive

### About this task

If the system cannot load into Windows but there is still a need to update the BIOS, download the BIOS file using another system and save it to a bootable USB Flash Drive.

**NOTE:** You will need to use a bootable USB Flash drive. Please refer to the following article for further details: <https://www.dell.com/support/article/us/en/19/sln143196/>

### Steps

- 1 Download the BIOS update .EXE file to another system.
- 2 Copy the file e.g. O9010A12.EXE onto the bootable USB Flash drive.
- 3 Insert the USB Flash drive into the system that requires the BIOS update.
- 4 Restart the system and press F12 when the Dell Splash logo appears to display the One Time Boot Menu.
- 5 Using arrow keys, select **USB Storage Device** and click Return.
- 6 The system will boot to a Diag C:\> prompt.
- 7 Run the file by typing the full filename e.g. O9010A12.exe and press Return.
- 8 The BIOS Update Utility will load, follow the instructions on screen.

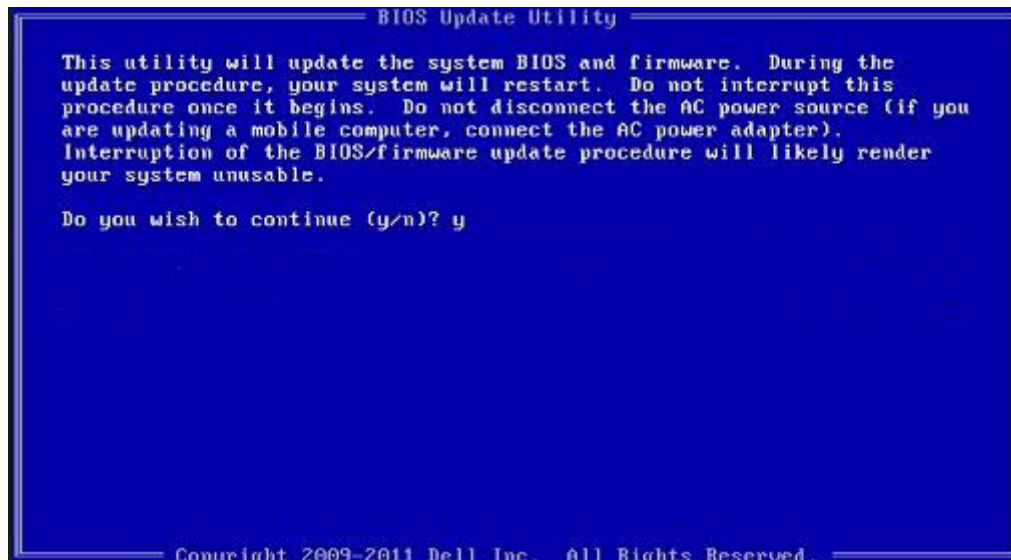


Figure 1. DOS BIOS Update Screen

# System and setup password

Table 42. System and setup password

Password type	Description
System password	Password that you must enter to log on to your system.
Setup password	Password that you must enter to access and make changes to the BIOS settings of your computer.

You can create a system password and a setup password to secure your computer.

 **CAUTION:** The password features provide a basic level of security for the data on your computer.

 **CAUTION:** Anyone can access the data stored on your computer if it is not locked and left unattended.

 **NOTE:** System and setup password feature is disabled.

## Assigning a system setup password

### Prerequisite

You can assign a new **System or Admin Password** only when the status is in **Not Set**.

### About this task

To enter the system setup, press F2 immediately after a power-on or re-boot.

### Steps

- 1 In the **System BIOS** or **System Setup** screen, select **Security** and press Enter.  
The **Security** screen is displayed.
- 2 Select **System/Admin Password** and create a password in the **Enter the new password** field.  
Use the following guidelines to assign the system password:
  - A password can have up to 32 characters.
  - The password can contain the numbers 0 through 9.
  - Only lower case letters are valid, upper case letters are not allowed.
  - Only the following special characters are allowed: space, ("), (+), (,), (-), (.), (/), (:), ([), (\), (]), (`).
- 3 Type the system password that you entered earlier in the **Confirm new password** field and click **OK**.
- 4 Press Esc and a message prompts you to save the changes.
- 5 Press Y to save the changes.  
The computer reboots.

## Deleting or changing an existing system setup password

### Prerequisite

Ensure that the **Password Status** is Unlocked (in the System Setup) before attempting to delete or change the existing System and/or Setup password. You cannot delete or change an existing System or Setup password, if the **Password Status** is Locked.

### About this task

To enter the System Setup, press F2 immediately after a power-on or reboot.

### Steps

- 1 In the **System BIOS** or **System Setup** screen, select **System Security** and press Enter.

The **System Security** screen is displayed.

- 2 In the **System Security** screen, verify that **Password Status** is **Unlocked**.
- 3 Select **System Password**, alter or delete the existing system password and press Enter or Tab.
- 4 Select **Setup Password**, alter or delete the existing setup password and press Enter or Tab.

**NOTE:** If you change the System and/or Setup password, re-enter the new password when prompted. If you delete the System and/or Setup password, confirm the deletion when prompted.

- 5 Press Esc and a message prompts you to save the changes.
- 6 Press Y to save the changes and exit from System Setup.

The computer reboot.

## Proximity sensor

On Dell Latitude systems, the proximity sensor is accessed when the system is ON or in the sleep mode. The valid state of the proximity sensor is **Near**, and **Enable with external monitor**.

## Proximity sensor in Near state

The following table explains the **Near** state behavior:

**NOTE:** Suggest enrolling Windows Hello Facial Recognition and configured before the proximity sensor is started for better express sign-in experience.

**Table 43. Near state behavior**

System state	Description
ON/Standby	Wakes up the system when the user is within the sensor Field of View (FoV) of the system during the ON state and the LED illuminates solid white light or in the standby state. <b>NOTE:</b> Sensor does not wake the system from the low power states which is battery life less than 30 minutes. <b>NOTE:</b> Sensor does not support wake the system from hibernation and power off state.
Off	Does not wake the system from any of the power states even when the user is within the sensor Field of View (FoV).

## Proximity sensor in external monitor usage state

You can select **Proximity sensor in external monitor usage state** to **Yes** to keep proximity sensor function still working even when the external monitor is connected. Select **No** to temporarily disable the proximity sensor functionality with the external monitor connected. The following table explains the **External monitor usage state behavior** state behavior:

**Table 44. External monitor usage state behavior**

System state	Description
Yes	If the system is connected to an external monitor, the proximity sensor checks whether the user is within the sensor FoV.
No	This is the default state and the system state remains unchanged even when the user is outside of sensor FoV.



# Proximity sensor user interface in external monitor usage state

When an external monitor is connected to the system and **Near** state is enabled, the **Dell Proximity Sensor** window is displayed, and you can select **Yes** or **No** to enable or disable the proximity sensor.

If you select **Yes**, the proximity sensor is enabled. If you select **No**, the proximity sensor is not enabled. If you select the **Do not show again** checkbox, a message that the user must be within the sensor FoV for the features to function properly is not displayed until the option is again enabled manually.

**NOTE:** If multiple monitors are connected, the **Dell Proximity Sensor** window is displayed only for the first external monitor that is connected to the system and not for the subsequent monitors.

## Launch Dell Proximity Sensor/Systray icon

You can enable the **Systray** icon to start the **Dell Proximity Sensor** window from the system desktop after Dell Proximity Sensor has been launched.

To start the **Dell Proximity Sensor**, do the following:

- 1 Click **Windows Settings > System > Power & Sleep > Dell Proximity Sensor > Change PC behavior based on your proximity to the PC** to start the **Dell Proximity Sensor** window. You can start the **Dell Proximity Sensor** window when the system is ON or in the sleep mode.
- 2 You can also double-click **Systray** to start the **Dell Proximity Sensor** window.
- 3 Right-click **Systray** to view the context menu.  
The options in the context menu are:





**Table 45. Context menu options**

System state	Options
<b>Near</b>	<ul style="list-style-type: none"><li>• Select <b>Near</b> to enable the proximity sensor.</li><li>• Deselect <b>Near</b> to disable the proximity sensor.</li></ul>
<b>Enable with external monitor(s)</b>	<ul style="list-style-type: none"><li>• Select <b>Enable with external monitor(s)</b> to enable the proximity sensor.</li><li>• Deselect <b>Enable with external monitor(s)</b> to disable the proximity sensor.</li></ul>
<b>Open application</b>	Select to start the proximity sensor desktop application.
<b>Quit</b>	Closes the proximity sensor desktop application and deletes the <b>Systray</b> icon from the system. Restart the proximity sensor from the operating system settings page or use the <b>Search</b> option to view and start the proximity sensor.

## Supported hinge angles

The proximity sensor works as configured in a supported four hinge angles for a particular mode. The proximity sensor does not change the existing state if you are within the sensor FoV for an unsupported hinge angle. Once the system is in the supported hinge angle, the proximity sensor will start to change the state. The supported hinge angles are:

**Table 46. Supported hinge angles**

<b>System with status</b>	<b>Supported hinge angle</b>	<b>Illustration</b>
Clamshell	60° to 150°	
Stand	210° to 300°	
Tablet	Not supported	
Tent	Not supported	

This chapter details the supported operating systems along with instructions on how to install the drivers.

## Downloading drivers

- 1 Turn on the notebook.
- 2 Go to **Dell.com/support**.
- 3 Click **Product Support**, enter the Service Tag of your notebook, and then click **Submit**.

**NOTE:** If you do not have the Service Tag, use the auto detect feature or manually browse for your notebook model.

- 4 Click **Drivers and Downloads**.
- 5 Select the operating system installed on your notebook.
- 6 Scroll down the page and select the driver to install.
- 7 Click **Download File** to download the driver for your notebook.
- 8 After the download is complete, navigate to the folder where you saved the driver file.
- 9 Double-click the driver file icon and follow the instructions on the screen.

# Getting help

## Contacting Dell

### Prerequisite

**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.

### About this task

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:

### Steps

- 1 Go to **Dell.com/support**.
- 2 Select your support category.
- 3 Verify your country or region in the **Choose a Country/Region** drop-down list at the bottom of the page.
- 4 Select the appropriate service or support link based on your need.