Precision 5750

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.

Contents

Set up your computer

Steps

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

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

2. Finish Windows system setup.

   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.

3. Locate and use Dell apps from the Windows Start menu—Recommended

Table 1. Locate Dell apps

Dell apps	Details
	Dell Product Registration Register your computer with Dell.
	Dell Help & Support Access help and support for your computer.

Table 1. Locate Dell apps (continued)

Dell apps	Details
	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 preinstalled on your computer.

4. Create recovery drive for Windows.

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

   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.

Dell low blue light display

⚠ **WARNING: Prolonged exposure to blue light from the display may lead to long-term effects such as eye strain, eye fatigue, or damage to the eyes.**

The ComfortView feature on Dell laptops and displays is designed to minimize blue light emitted from the display for better eye comfort.

To reduce the risk of eye strain after looking at the laptop's display for an extended period of time, it is recommended that you:

1. Set the laptop's display at a comfortable viewing distance between 20 inches and 28 inches (50 cm and 70 cm) from your eyes.
2. Blink frequently to moisten your eyes, or wet your eyes with water.
3. Take a break for 20 minutes every two hours.
4. Look away from your display, and gaze at a distant object at 20 ft (609.60 cm) away for at least 20 seconds during each break.

Chassis overview

Topics:

Display view

1. Proximity sensor
2. IR LED
3. Ambient light sensor
4. RGB + IR camera
5. LED indicator
6. IR LED
7. LCD panel
8. LED diagnostics light

Left view

1. Wedge-shaped lock slot
2. USB Type-C 3.2 Gen 2 Charging port with Thunderbolt3 /DisplayPort 1.4
3. USB Type-C 3.2 Gen 2 Charging port with Thunderbolt3 /DisplayPort 1.4

Right view

1. USB Type-C 3.2 Gen 2 Charging port with Thunderbolt3 / DisplayPort 1.4
2. USB Type-C 3.2 Gen 2 Charging port with Thunderbolt3 / DisplayPort 1.4
3. SD-card reader 4.0
4. Universal Audio Jack

Palmrest view

1. Microphones
2. Power button with fingerprint reader
3. Speaker
4. Touchpad
5. Speaker

Bottom view

1. Speaker
2. Speaker
3. Fan vents
4. Service Tag label

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	Primary behavior	Secondary behavior (Fn + Key)
Fn + Esc	Escape	Toggle Fn-key lock
Fn + F1	Mute audio	F1 behavior
Fn + F2	Decrease volume	F2 behavior
Fn + F3	Increase volume	F3 behavior
Fn + F4	Play/pause for audio playback	F4 behavior
Fn + F5	Turn on/off keyboard backlight	F5 behavior
Fn + F6	Decrease brightness	F6 behavior
Fn + F7	Increase brightness	F7 behavior
Fn + F8	Switch to external display	F8 behavior
Fn + F10	Print screen	F10 behavior
Fn + F11	Home	F11 behavior
Fn + 12	End	F12 behavior
Fn + Ctrl	Open application menu	--

Technical specifications

> (i) **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:

Dimensions and weight

Table 3. Dimensions and weight

Description	Values
Height:	
Front	8.67 mm (0.34 in.)
Rear	13.15 mm (0.52 in.)
Width	374.48 mm (14.74 in.)
Depth	248.08 mm (9.77 in.)
Weight	2.13 kg (4.70 lb) (i) **NOTE:** The weight of your system depends on the configuration ordered and the manufacturing variability.

Chipset

Table 4. Chipset

Description	Values
Chipset	Intel WM490
Processor	10th Generation Intel Core i5/i7/i9/Xeon
Flash EPROM	32 MB
PCIe bus	Up to Gen 3.0

Processors

Table 5. Processors

Description	Values						
Processors	10th Generation Intel Core i5-10400H Vpro	10th Generation Intel Core i7-10750H	10th Generation Intel Core i7-10850H Vpro	10th Generation Intel Core i7-10875H Vpro	10th Generation Intel Core i9-10885H Vpro	10th Generation Intel Xeon-W10855M Vpro	10th Generation Intel Xeon-W10885M Vpro
Wattage	45 W	45 W	45 W	45 W	45 W	45 W	45 W
Core count	4	6	6	8	8	6	8
Thread count	8	12	12	16	16	12	16
Speed	2.6 to 4.6 GHz	2.6 to 5.0 GHz	2.7 to 5.1 GHz	2.3 to 5.1 GHz	2.4 to 5.3 GHz	2.8 to 5.1 GHz	2.4 to 5.3 GHz
Cache	8 MB	12 MB	12 MB	16 MB	16 MB	12 MB	16 MB
Integrated graphics	Intel UHD Graphics	Intel UHD Graphics	Intel UHD Graphics	Intel UHD Graphics	Intel UHD Graphics	Intel UHD Graphics	Intel UHD Graphics

Operating system

- Windows 10 Home (64-bit)
- Windows 10 Enterprise (64-bit)
- Windows 10 Professional (64-bit)
- Windows 10 Pro Education (64-bit)
- Windows 10 Pro for Workstations (64-bit)
- Windows 10 Pro for China (64-bit)
- Ubuntu 18.04 LTS (64-bit)

Memory

Table 6. Memory specifications

Description	Values
Slots	Two-SODIMM slots
Type	Dual-channel DDR4
Speed	2666 MHz for ECC memory/2933 MHz for Non-ECC memory
Maximum memory	64 GB
Minimum memory	8 GB
Configurations supported	8 GB, 1 x 8 GB, DDR4, 2666 MHz, ECC, SODIMM 16 GB, 1 x 16 GB, DDR4, 2666 MHz, ECC, SODIMM 16 GB, 2 x 8 GB, DDR4, 2666 MHz, ECC, SODIMM 32 GB, 1 x 32 GB, DDR4, 2666 MHz, ECC, SODIMM 32 GB, 2 x 16 GB, DDR4, 2666 MHz, ECC, SODIMM 64 GB, 2 x 32 GB, DDR4, 2666 MHz, ECC, SODIMM 8 GB, 1 x 8 GB, DDR4, 2933 MHz, Non-ECC, SODIMM 16 GB, 1 x 16 GB, DDR4, 2933 MHz, Non-ECC, SODIMM 16 GB, 2 x 8 GB, DDR4, 2933 MHz, Non-ECC, SODIMM 32 GB, 1 x 32 GB, DDR4, 2933 MHz, Non-ECC, SODIMM 32 GB, 2 x 16 GB, DDR4, 2933 MHz, Non-ECC, SODIMM 64 GB, 2 x 32 GB, DDR4, 2933 MHz, Non-ECC, SODIMM (i) **NOTE:** ECC memory will support 2933 MHz post RTS

Storage

Your computer supports one of the following configurations:

- M.2 2230, solid-state drive (class 35)
- M.2 2280, solid-state drive (class 40)
- M.2 2280, solid-state drive (class 50)
- M.2 2280, SED solid-state drive (class 40)

The primary drive of your computer varies with the storage configuration.

Table 7. Storage specifications

Form factor	Interface type	Capacity
M.2 2230, Gen 3 PCIe x4 NVMe, Class 35 solid-state drive	Gen 3 PCIe NVMe x4	256 GB
M.2 2280, Gen 3 PCIe x4 NVMe, Class 40 solid-state drive	Gen 3 PCIe NVMe x4	up to 2 TB
M.2 2280, Gen 3 PCIe x4 NVMe, Class 50 solid-state drive	Gen 3 PCIe NVMe x4	up to 1 TB
M.2 2280, Gen 3 PCIe x4 NVMe, Class 40 SED solid-state drive	Gen 3 PCIe NVMe x4	up to 1 TB

Media-card reader

Table 8. Media-card reader specifications

Description	Values
Type	SD card slot 4.0
Cards supported	● Secure Digital (SD) ● Secure Digital High Capacity (SDHC) ● Secure Digital Extended Capacity (SDXC)

Audio

Table 9. Audio specifications

Description	Values
Controller	Realtek ALC3204 with Waves MaxxAudio Pro
Stereo conversion	24-bit DAC (Digital-to-Analog) and ADC (Analog-to-Digital)
Internal interface	Intel HDA (high-definition audio)
External interface	Universal audio jack
Speakers	4
Speaker Output Average	2 W
Speaker Output Peak	2.5 W

Video

Table 10. Discrete graphics specifications

Discrete graphics			
Controller	External display support	Memory size	Memory type
NVIDIA Quadro T2000	mDP/HDMI/Type-C	4 GB	GDDR6
NVIDIA Quadro RTX3000	mDP/HDMI/Type-C	6 GB	GDDR6

Table 11. Integrated graphics specifications

Integrated graphics			
Controller	External display support	Memory size	Processor
Intel UHD Graphics 630	mDP/HDMI/Type-C	Shared system memory	10th Generation Intel Core i5/i7/i9
Intel UHD Graphics P630	mDP/HDMI/Type-C	Shared system memory	Intel Xeon

Ports and connectors

Table 12. External ports and connectors

Description	Values
External:	
USB	• Four USB Type-C 3.2 Gen 2 Charging port with Thunderbolt3 /DisplayPort 1.4
Audio	One Universal Audio Jack
Video	via display dongle/dock to connect external display
Power adapter port	Four Type-C power port
Security	One Wedge-shaped lock slot
Card slot	SD card slot 4.0
Dongle	DA20 dual port HDMI/USB Dongle

Table 13. Internal ports and connectors

Description	Values
Internal:	
One M.2 Key-M (2280 or 2230) for solid-state drive	• One M.2 2230 slot for solid-state drive 256 GB • One M.2 2280 slot for solid-state drive 256 GB/512 GB/1 TB/2 TB • One M.2 2280 slot for Self-Encrypting solid-state drive 512 GB/1 TB ⓘ **NOTE:** To learn more about the features of different types of M.2 cards, see the knowledge base article SLN301626.

Display

Table 14. Display specifications

Description		Values	
Type		Full High Definition (FHD+)	Ultra High Definition (UHD+)
Panel technology		Wide Viewing Angle (WVA)	Wide Viewing Angle (WVA)
Luminance (typical)		500 nits	500 nits
Dimensions (Active Area):			
	Height	366.34 mm (14.42 in.)	366.34 mm (14.42 in.)
	Width	228.96 mm (9.01 in.)	228.96 mm (9.01 in.)
	Diagonal	431.80 mm (17 in.)	431.80 mm (17 in.)
Native Resolution		1920 x 1200	3840 x 2400

Table 14. Display specifications (continued)

Description	Values	
Megapixels	2.3	9.2
Pixels per Inch (PPI)	133	266
Color Gamut (CG)	sRGB 100%	AdobeRGB 100%
Contrast Ratio (min)	1800:1	1800:1
Response Time (max)	35 ms	35 ms
Refresh Rate	60 Hz	60 Hz
Horizontal View Angle	+/- 85 degrees	+/- 85 degrees
Vertical View Angle	+/- 85 degrees	+/- 85 degrees
Pixel Pitch	0.1908 mm	0.0549 mm
Power Consumption (maximum)	5.50 W	13.98 W
Anti-glare vs glossy finish	Anti-glare	Anti-reflective
Touch options	No	Yes, 10 finger touch

Camera

Table 15. Camera specifications

Description		Values
Number of cameras		One
Type		● Hello IR Webcam
Location		Front camera
Sensor type		CMOS sensor technology
Resolution:		
	Still image	0.92 megapixel
	Video	1280 x 720 (HD) at 30 fps
Diagonal viewing angle		78.5 degrees

Communications

Wireless module

Table 16. Wireless module specifications

Description	Values
Model number	Intel Wi-Fi 6 AX201 soldered down
Transfer rate	Up to 2400 Mbps
Frequency bands supported	2.4 GHz/5 GHz
Wireless standards	- Wi-Fi 802.11a/b/g - Wi-Fi 4 (WiFi 802.11n) - Wi-Fi 5 (WiFi 802.11ac) - Wi-Fi 6 (WiFi 802.11ax)
Encryption	64-bit/128-bit WEP - AES-CCMP - TKIP
Bluetooth	Bluetooth 5.1

Power adapter

Table 17. Power adapter specifications

Description	Values	
Type	90 W USB Type-C	130 W Type-C
Diameter (connector)	Type-C connector	Type-C connector
Weight	0.23 kg (0.51 lb)	0.32 kg (0.70 lb)
Input voltage	100 VAC to 240 VAC	100 VAC to 240 VAC
Input frequency	50 to 60 Hz	50 to 60 Hz
Input current (maximum)	1.50 A	1.80 A
Output current (continuous)	20 V/4.5 A (Continuous) 15 V/3 A (Continuous) 9 V/3 A (Continuous) 5 V/3 A (Continuous)	20 V/6.5 A (Continuous) 5.0 V/1 A (Continuous)
Rated output voltage	20 VDC 15 VDC 9 VDC 5 VDC	20 VDC 5 VDC
Operating	0°C to 40°C (32°F to 104°F)	0°C to 40°C (32°F to 104°F)
Storage	-40°C to 70°C (-40°F to 158°F)	-40°C to 70°C (-40°F to 158°F)

System board connectors

Table 18. System board connectors

Feature	Specifications
M.2 Connectors	● Two M.2 2280 Key-M connector

Battery

Table 19. Battery specifications

Description		Values	
Type		56 WHr, 3-cell "smart" lithium-ion	97 WHr, 6-cell "smart" lithium-ion
Voltage		11.40 VDC	11.40 VDC
Weight (maximum)		0.27 kg (0.60 lb)	0.385 kg (0.85 lb)
Dimensions:			
	Height	8.45 mm (0.33 in.)	8.45 mm (0.33 in.)
	Width	69.70 mm (2.74 in.)	69.70 mm (2.74 in.)
	Depth	330.65 mm (13.02 in.)	330.65 mm (13.02 in.)
Temperature range:			
	Operating	● Charge: 0°C to 50°C (32°F to 122°F) ● Discharge: 0°C to 60°C (32°F to 140°F)	● Charge: 0°C to 50°C (32°F to 122°F) ● Discharge: 0°C to 60°C (32°F to 140°F)
	Storage	−40°C to 60°C (-4°F to 140°F)	−40°C to 60°C (-4°F to 140°F)
Operating time		Varies depending on operating conditions and can significantly reduce under certain power-intensive conditions.	Varies depending on operating conditions and can significantly reduce under certain power-intensive conditions.
Charging time (approximate)		● Standard charge, 0°C to 50°C (32°F to 122°F): 4 hours ● ExpressCharge, 0°C to 15°C (32°F to 59°F): 4 hours ● ExpressCharge, 16°C to 45°C (60.80°F to 113°F): 2 hours ● ExpressCharge, 46°C to 50°C (114.80°F to 122°F): 3 hours ⓘ **NOTE:** Control the charging time, duration, start and end time, and so on, using the Dell Power Manager application. For more information about the Dell Power Manager, see, *Me and My Dell* on www.dell.com/. ⓘ **NOTE:** Control the charging time, duration, start and end time, and so on using the Dell Power Manager application. For more information on	● Standard charge, 0°C to 50°C (32°F to 122°F): 4 hours ● ExpressCharge, 0°C to 15°C (32°F to 59°F): 4 hours ● ExpressCharge, 16°C to 45°C (60.80°F to 113°F): 2 hours ● ExpressCharge, 46°C to 50°C (114.80°F to 122°F): 3 hours ⓘ **NOTE:** Control the charging time, duration, start and end time, and so on, using the Dell Power Manager application. For more information about the Dell Power Manager, see, *Me and My Dell* on www.dell.com/. ⓘ **NOTE:** Control the charging time, duration, start and end time, and so on using the Dell Power Manager application. For more information on

Table 19. Battery specifications (continued)

Description	Values	
	the Dell Power Manager, see *Me and My Dell* on www.dell.com/	the Dell Power Manager, see *Me and My Dell* on www.dell.com/
Life span (approximate)	300 discharge/charge cycles	300 discharge/charge cycles
Coin-cell battery	Not supported	Not supported
Operating time	Varies depending on operating conditions and can significantly reduce under certain power-intensive conditions.	Varies depending on operating conditions and can significantly reduce under certain power-intensive conditions.

Touchpad

Table 20. Touchpad specifications

Feature	Specifications
Resolution	1221 x 661
Dimensions	● Width: 101.7 mm (4.00 in.) ● Height: 55.2 mm (2.17 in.)
Multi-touch	Supports 5-finger multi-touch (i) **NOTE:** For more information about touchpad gestures for Windows 10, see the Microsoft knowledge base article 4027871 at support.microsoft.com.

Table 21. Supported gestures

Supported gestures	Windows 10
Cursor moving	Supported
Clicking/ tapping	Supported
Click and drag	Supported
2-finger scroll	Supported
2-finger Pinch/ Zoom	Supported
2-finger tap (Right Clicking)	Supported
3-finger tap (Invoke Cortana)	Supported
3-finger swipe up (See all open windows)	Supported
3-finger swipe down (Show the desktop)	Supported
3-finger swipe right or left (Switch between open windows)	Supported
4-finger tap (Invoke Action Center)	Supported
4-finger swipe right or left (Switch virtual desktops)	Supported

Keyboard

Table 22. Keyboard specifications

Feature	Specifications
Number of keys	102 (U.S. and Canada) 103 (UK) 106 (Japan)
Size	Full sized - X= 18.6 mm (0.73 in.) key pitch - Y= 19.05 mm (0.75 in.) key pitch
Backlit keyboard	Optional (backlit and Non-backlit)
Layout	QWERTY

Fingerprint reader in Power Button

Table 23. Fingerprint reader specifications

Description	Values	
Sensor technology	Capacitive	Capacitive
Sensor resolution	363 dpi	500 dpi
Sensor pixel size	76 x 100	108 x 88

Sensor and control specifications

Table 24. Sensor and control specifications

Specifications
1. Free fall sensor on motherboard
2. Hall Effect Sensor (Detects when the lid is closed)
3. Proximity sensor

Security

Table 25. Security specifications

Features	Specifications
Trusted Platform Module (TPM) 2.0	Integrated on system board
Fingerprint reader	Standard
Wedge-shaped lock slot	Standard

Security Software

Table 26. Security Software specifications

Specifications
Dell Client Command Suite
Optional Dell Data Security and Management Software Dell Client Command Suite Dell BIOS Verification Optional Dell Endpoint Security and Management Software VMware Carbon Black Endpoint Standard VMware Carbon Black Endpoint Standard + Secureworks Threat Detection and Response Dell Encryption Enterprise Dell Encryption Personal Carbonite VMware Workspace ONE Absolute® Endpoint Visibility and Control Netskope Dell Supply Chain Defense

Computer environment

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

Table 27. Computer environment

Description	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 90% (non-condensing)	0% to 95% (non-condensing)
Vibration (maximum)*	0.66 GRMS	1.30 GRMS
Shock (maximum)	110 G†	160 G†
Altitude (maximum)	-15.2 m to 3048 m (4.64 ft to 5518.4 ft)	-15.2 m to 10668 m (4.64 ft to 19234.4 ft)

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

† Measured using a 2 ms half-sine pulse when the hard drive is in use.

Software

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

Topics:

*   Downloading Windows drivers

Downloading Windows drivers

Steps

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**.

    (i) **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.

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:** Depending on the computer and its installed devices, the items listed in this section may or may not be displayed.

ⓘ **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:

Entering BIOS setup program

About this task

Turn on (or restart) your computer and press F2 immediately.

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.

Table 28. Navigation keys

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. ⓘ **NOTE:** For the standard graphics browser only.
Esc	Moves to the previous page until you view the main screen. Pressing Esc in the main screen displays a message that

Table 28. Navigation keys (continued)

Keys	Navigation
	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 (if available)
  - ⓘ **NOTE:** XXX denotes the SATA drive number.
- Optical Drive (if available)
- SATA Hard Drive (if available)
- Diagnostics

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

One time boot menu

To enter **one time boot menu**, turn on your computer, and then press F2 immediately.
ⓘ **NOTE:** It is recommended to shutdown the computer if it is on.

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 (if available)
  - ⓘ **NOTE:** XXX denotes the SATA drive number.
- Optical Drive (if available)
- SATA Hard Drive (if available)
- Diagnostics

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

System setup options

ⓘ **NOTE:** Depending on this computer and its installed devices, the items that are listed in this section may or may not be displayed.

Table 29. System setup options—System information menu

Overview	
precision 5750	
BIOS Version	Displays the BIOS version number.
Service Tag	Displays the Service Tag of the computer.
Asset Tag	Displays the Asset Tag of the computer.

Table 29. System setup options—System information menu (continued)

Overview	
Manufacture Date	Displays the manufacture date of the computer.
Ownership Date	Displays the ownership date of the computer.
Express Service Code	Displays the express service code of the computer.
Ownership Tag	Displays the ownership tag of the computer.
Signed Firmware Update	Displays whether the signed firmware update is enabled.
	Default: Enabled
Battery	Displays the battery health information.
Primary	Displays the primary battery.
Battery Level	Displays the battery level.
Battery State	Displays the battery state.
Health	Displays the battery health.
AC Adapter	Displays whether an AC adapter is connected. If connected, the AC adapter type.
PROCESSOR	
Processor Type	Displays the processor type.
Maximum Clock Speed	Displays the maximum processor clock speed.
Minimum Clock Speed	Displays the minimum processor clock speed.
Current Clock Speed	Displays the current processor clock speed.
Core Count	Displays the number of cores on the processor.
Processor ID	Displays the processor identification code.
Processor L2 Cache	Displays the processor L2 Cache size.
Processor L3 Cache	Displays the processor L3 Cache size.
Microcode Version	Displays the microcode version.
Intel Hyper-Threading Capable	Displays whether the processor is Hyper-Threading (HT) capable.
64-Bit Technology	Displays whether 64-bit technology is used.
MEMORY	
Memory Installed	Displays the total computer memory installed.
Memory Available	Displays the total computer memory available.
Memory Speed	Displays the memory speed.
Memory Channel Mode	Displays single or dual channel mode.
Memory Technology	Displays the technology that is used for the memory.
DIMM SLOT 1	Displays the memory card installed in slot 1
DIMM SLOT 2	Displays the memory card installed in slot 2
DEVICES	
Panel Type	Displays the Panel Type of the computer.
Video Controller	Displays the integrate graphics information of the computer.
Video Memory	Displays the video memory information of the computer.
Wi-Fi Device	Displays the Wi-Fi device installed in the computer.
Native Resolution	Displays the native resolution of the computer.
Video BIOS Version	Displays the video BIOS version of the computer.

Table 29. System setup options—System information menu (continued)

Overview	
Audio Controller	Displays the audio controller information of the computer.
Bluetooth Device	Displays whether a Bluetooth device is installed in the computer.
Pass Through MAC Address	Displays the MAC address of the video pass-through.

Table 30. System setup options—Boot Configuration menu

Boot Configuration	
Boot Sequence	
Boot Mode: UEFI only	Displays the boot mode of this computer.
Boot Sequence	Displays the boot sequence.
Secure Digital (SD) Card Boot	Enables or disables Secure Digital (SD) Card boot.
Secure Boot	
Enable Secure Boot	Enables or disables checking of boot software (including firmware drivers and the operating system).
Secure Boot Mode	Modifies the behavior of Secure Boot to allow evaluation or enforcement of UEFI driver signatures.
	By default, Deployed Mode is selected.
Expert Key Management	
Enable Custom Mode	Enables or disables custom mode to allow keys in the PK, KEK, db, and dbx security key databases to be modified.
	Default: OFF

Table 31. System setup options—Integrated Devices menu

Integrated Devices	
Date/Time	
Date	Sets the computer date in MM/DD/YYYY format. Changes to the date take effect immediately.
Time	Sets the computer time in HH/MM/SS 24-hour format. You can switch between 12-hour and 24-hour clock. Changes to the time take effect immediately.
Thunderbolt Adapter Configuration	
Enable Thunderbolt Technology Support	Enables or disables the Thunderbolt Technology feature and associated ports and adapters.
	Default: ON
Enable Thunderbolt Boot Support	Enables or disables Thunderbolt adapter features during pre-boot.
	Default: OFF
Enable Thunderbolt (and PCIe behind TBT) pre-boot modules	Enables or disables the setting that allows PCIe devices that are connected via a Thunderbolt adapter.
	Default: OFF
Thunderbolt Security level	Sets the Thunderbolt adapter security level within the operating system.
	By default, User Authorization is selected.
Camera	
Enable Camera	Enables or disables the camera.

Table 31. System setup options—Integrated Devices menu (continued)

Integrated Devices	
	By default, Enable Camera is selected.
Audio	
Enable Audio	Enables or disables all integrated audio controller.
	Default: ON
Enable Microphone	Enables or disables microphone.
	By default, Enable Microphone is selected.
Enable Internal Speaker	Enables or disables internal speaker.
	By default, Enable Internal Speaker is selected.
USB Configuration	Enables or disables booting from USB mass storage devices such as external hard drive, optical drive, and USB drive.
	By default, Enable USB Boot Support is selected.
	By default, Enable External USB Ports is selected.
Miscellaneous Devices	
Enable Fingerprint Reader Device	Enables or disables the Fingerprint Reader Device.
	By default, Enable Fingerprint Reader Device is selected.
Enable Fingerprint Reader Single Sign On	Enables or disables the Fingerprint Reader Single Sign On capability.
	By default, Enable Fingerprint Reader Single Sign On is selected.

Table 32. System setup options—Storage menu

Storage	
SATA Operation	Configures operating mode of the integrated SATA hard drive controller.
	Default: RAID On. SATA is configured to support RAID (Intel Rapid Restore Technology).
Storage Interface	
Port Enablement	Enables the selected onboard drives.
	● SATA-4
	Default: ON
	● M.2 PCIe SSD-0
	Default: ON
	● M.2 PCIe SSD-1
	Default: ON
Drive Information	Displays the information of various onboard drives.
Enable SMART Reporting	Enables or disables Self-Monitoring, Analysis, and Reporting Technology (SMART).
	Default: OFF
Enable MediaCard	Enables to switch all media cards On/Off or set the media card to read-only state.
	By default, Enable Secure Digital (SD) Card is selected.

Table 33. System setup options—Display menu

Display	
Display Brightness	
Brightness on battery power	Sets the screen brightness when the computer is running on battery power.
	Default: 50
Brightness on AC power	Sets the screen brightness when the computer is running on AC power.
	Default: 0
Touch Screen	Enables or disables the touch screen for the OS.
	ⓘ **NOTE:** The touch screen will always work in the BIOS setup irrespective of this setting.
Full Screen Logo	Enabled or disabled the computer to display full screen logo if the image match screen resolution.
	Default: OFF
Direct Graphics Controller Direct Output Mode	When enabled, all graphics output ports directly to the Graphics Processing Unit (GPU), bypassing Intel Integrated graphics outputs for HDMI, Thunderbolt, and mDP ports.
	Default: OFF

Table 34. System setup options—Connection menu

Connection	
Wireless Device Enable	Enable or disable internal WLAN/Bluetooth devices.
	By default, WLAN is selected.
	By default, Bluetooth is selected.
Enable UEFI Network Stack	
Enable UEFI Network Stack	When enabled, UEFI networking protocols are installed and available, allowing pre-OS and early OS networking features to use any enabled NICs. This may be used without PXE turned on.
	Default: ON
Wireless Radio Control	
Control WLAN radio	Enables to sense the connection of the computer to a wired network and subsequently disable the selected wireless radios (WLAN and/or WWAN). Upon disconnection from the wired network, the selected wireless radios are re-enabled.
	Default: OFF

Table 35. System setup options—Power menu

Power	
Battery Configuration	Enables the computer to run on battery during power usage hours. Use the below options to prevent AC power usage between certain times of each day.
	By default Adaptive is selected.
Advanced Configuration	
Enable Advanced Battery Charge Configuration	Enables Advanced Battery Charge Configuration from the beginning of the day to a specified work period. Advanced Battery Charged maximizes battery health while still supporting heavy use during the work day.
	Default: OFF
Peak Shift	Enables the computer to run on battery during peak power usage hours.

Table 35. System setup options—Power menu (continued)

Power	
	Default: OFF
Thermal Management	Sets cooling fan and processor heat management to adjust system performance, noise, and temperature.
	By default, Optimized is selected.
USB Wake Support	
Wake on Dell USB-C Dock	Enables connecting a Dell USB-C Dock to wake the computer from Standby.
	Default: ON
Block Sleep	Blocks the computer from entering Sleep (S3) mode in the operating system.
	Default: OFF
	ⓘ **NOTE:** If enabled, the computer will not go to sleep, Intel Rapid Start will be disabled automatically, and the operating system power option will be blank if it was set to Sleep.
Lid Switch	
Enable Lid Switch	Enables or disables the lid switch.
	Default: ON
Power On Lid Open	Enables the computer to power up from the off state whenever the lid is opened.
	Default: ON
Intel Speed Shift Technology	Enables or disables the Intel Speed Shift Technology support. Setting this option to enable allows the operating system to select the appropriate processor performance automatically.
	Default: ON

Table 36. System setup options—Security menu

Security	
TPM 2.0 Security On	Select whether or not the Trusted Platform Model (TPM) is visible to the OS.
	Default: ON
PPI Bypass for Enable Commands	Enables or disables the OS to skip BIOS Physical Presence Interface (PPI) user prompts when issuing TPM PPI enabled and activate commands.
	Default: OFF
PPI Bypass for Disable Commands	Enables or disables The OS to skip BIOS PPI user prompts when issuing TPM PPI Disable and Deactivate commands.
	Default: OFF
PPI Bypass for Clear Commands	Enables or disables the operating system to skip BIOS Physical Presence Interface (PPI) user prompts when issuing the Clear command.
	Default: OFF
Attestation Enable	Enables to control whether the TPM Endorsement Hierarchy is available to the OS. Disabling this setting restricts the ability to use the TPM for signature operations.
	Default: ON
Key Storage Enable	Enables to control whether the TPM Endorsement Hierarchy is available to the OS. Disabling this setting restricts the ability to use the TPM for storing owner data.

Table 36. System setup options—Security menu (continued)

Security	
	Default: ON
SHA-256	Enables or disables the BIOS and the TPM to use the SHA-256 hash algorithm to extend measurements into the TPM PCRs during BIOS boot.
	Default: ON
Clear	Enables or disables the computer to clear the PTT owner information, and returns the PTT to the default state.
	Default: OFF
TPM State	Enables or disables the TPM. This is the normal operating state for the TPM when you want to use its complete array of capabilities.
	Default: Enabled
Intel Software Guard Extensions	
Intel SGX	Enables or disables the Intel Software Guard Extensions (SGX) to provide a secured environment for running code/storing sensitive information.
	By default, Software Control is selected.
SMM Security Mitigation	
SMM Security Mitigation	Enables or disables additional UEFI SMM Security Mitigation protections.
	Default: OFF
	(i) **NOTE:** This feature may cause compatibility issues or loss of functionality with some legacy tools and applications.
Data Wipe on Next Boot	
Start Data Wipe	When enabled, the BIOS will queue up a data wipe cycle for storage device(s) connected to the motherboard on the next reboot.
	Default: OFF
Absolute	
Absolute	Enables, disables or permanently disable the BIOS module interface of the optional Absolute Persistence Module service from Absolute Software.
	By default, Enable Absolute is selected.
UEFI Boot Path Security	
UEFI Boot Path Security	Controls whether the system will prompt the user to enter the admin password (if set) when booting to a UEFI boot path device from the F12 boot menu.
	By default, Always Except Internal HDD is selected.

Table 37. System setup options—Passwords menu

Passwords	
Admin Password	Sets, changes, or deletes the administrator password (sometimes called the "setup password"). The administrator password enables several security features.
Password Configuration	
Upper Case Letter	When enabled, password must contain at least one upper case letter.
	Default: OFF
Upper Case Letter	When enabled, password must contain at least one lower case letter.
	Default: OFF

Table 37. System setup options—Passwords menu (continued)

Passwords	
Digit	When enabled, password must contain at least one digit number.
	Default: OFF
Special Character	When enabled, password must contain at least one special character.
	Default: OFF
Minimum Characters	Sets the minimum number of characters allowed for passwords.
	Default: 04
Password Bypass	
Password Bypass	When enabled, the system and the hard drive passwords are prompted when the computer is powered on from the Off state.
	By default, Disabled is selected.
Password Changes	
Enable Non-Admin Password Changes	When On, users can change the system and the hard drive password without the need for administrator password.
	Default: ON
Admin Setup Lockout	
Enable Admin Setup Lockout	Enables or disables the user from entering BIOS Setup when an administrator password is set.
	Default: OFF
Master Password Lockout	
Enable Master Password Lockout	Enables or disables the master password support.
	Default: OFF

Table 38. System setup options—Update Recovery menu

Update Recovery	
UEFI Capsule Firmware Updates	
Enable UEFI Capsule Firmware Updates	Controls whether this computer allows BIOS updates via EUFI capsule update packages.
	Default: ON
BIOS Recovery from Hard Drive	
BIOS Recovery from Hard Drive	Enables the computer to recover from a bad BIOS image, as long as the Boot Block portion is intact and functioning.
	Default: ON
	(i) **NOTE:** BIOS recovery is designed to fix the main BIOS block and cannot work if the Boot Block is damaged. In addition, this feature cannot work in the event of EC corruption, ME corruption, or a hardware issue. The recovery image must exist on an unencrypted partition on the drive.
BIOS Downgrade	
Allow BIOS Downgrade	Controls flashing of the system firmware to previous revisions.
	Default: ON
SupportAssist OS Recovery	
SupportAssist OS Recovery	Enables or disables the boot flow for SupportAssist OS Recovery tool in the event of certain system errors.

Table 38. System setup options—Update Recovery menu (continued)

Update Recovery	
	Default: ON
BIOSConnect	
BIOSConnect	Enables or disables cloud Service OS recover if the main operating system fails to boot with the number of failures equal to or greater than the value specified by the Auto OS Recovery Threshold setup option.
	Default: ON
Dell Auto OS Recovery Threshold	Controls the automatic boot flow for SupportAssist System Resolution Console and for Dell operating system Recovery tool.
	By default, 2 is selected.

Table 39. System setup options—System Management menu

System Management	
Service Tag	Displays the Service Tag of the computer.
Asset Tag	Creates a system Asset Tag that can be used by an IT administrator to uniquely identify a particular system. Once set in BIOS, the Asset Tag cannot be changed.
AC Behavior	
Wake on AC	Enables the computer to turn on and go to boot when AC power is supplied to the computer.
	Default: OFF
Wake on LAN/WLAN	
Wake on LAN/WLAN	Enables or disables the computer to turn on by a special LAN/WLAN signal.
	By default, Disabled is selected.

Table 40. System setup options—Keyboard menu

Keyboard	
Numlock Enable	
Enable Numlock	Enables or disables Numlock when the computer boots.
	Default: ON
Fn Lock Options	
Fn Lock Options	Enables or disables the Fn lock option.
	Default: ON
Lock Mode	Default: Lock Mode Secondary. Lock Mode Secondary = If this option is selected, the F1-F12 keys scan the code for their secondary functions.
Keyboard Illumination	
Keyboard Illumination	Configures the operating mode of the keyboard illumination feature.
	By default, Bright is selected.
Keyboard Backlight Timeout on AC	
Keyboard Backlight Timeout on AC	Configures the timeout value for the keyboard when an AC adapter is connected to the computer. The keyboard backlight timeout value is only effect when the backlight is enabled.
	By default, 1 minute is selected.

Table 40. System setup options—Keyboard menu (continued)

Keyboard	
Keyboard Backlight Timeout on Battery	
Keyboard Backlight Timeout on Battery	Configures the timeout value for the keyboard when the computer is running on battery. The keyboard backlight timeout value is only effect when the backlight is enabled.
	By default, 1 minute is selected.
OROM Keyboard Access	Enables or disables the option to enter Option ROM configuration screens via hotkeys during boot.
	By default, Enabled is selected.
OROM Keyboard Access	

Table 41. System setup options—Pre-Boot Behavior menu

Pre-Boot Behavior	
Adapter Warnings	
Enable Adapter Warnings	Enables or disables the computer to display adapter warning messages when adapters with too little power capacity are detected.
	Default: ON
Warnings and Errors	
Warnings and Errors	Selects an action on encountering a warning or error during boot.
	By default, Prompt on Warnings and Errors is selected.
	ⓘ **NOTE:** Errors deemed critical to the operation of the computer hardware will always halt the computer.
USB-C Warnings	
Enable Dock Warning Messages	Enables or disables dock warning messages.
	Default: ON
Fastboot	
Fastboot	Configures the speed of the UEFI boot process.
	By default, Thorough is selected.
Extend BIOS POST Time	
Extend BIOS POST Time	Configures the BIOS POST (Power-On Self-Test) load time.
	By default, 0 seconds is selected.
MAC Address Pass-Through	
MAC Address Pass-Through	Replaces the external NIC MAC address (in a supported dock or dongle) with the selected MAC address from the computer.
	By default, System Unique MAC Address is selected.
Sign of Life	
Early Logo Display	Displays Logo Sign of Life.
	Default: ON

Table 42. System setup options—Virtualization menu

Virtualization	
Intel Virtualization Technology	

Table 42. System setup options—Virtualization menu (continued)

Virtualization	
Intel Virtualization Technology	Enables or disables the computer to run a virtual machine monitor (VMM).
	Default: ON
VT for Direct I/O	
Enable Intel VT for Direct I/O	Enables or disables the computer to perform Virtualization Technology for Direct I/O (VT-d). VT-d is an Intel method that provides virtualization for memory map I/O.
	Default: ON

Table 43. System setup options—Performance menu

Performance	
Multi-Core Support	
Active Cores	Changes the number of CPU cores available to the operating system. The default value is set to the maximum number of cores.
	By default, All Cores is selected.
Intel SpeedStep	
Enable Intel SpeedStep Technology	Enables or disables the Intel SpeedStep Technology to dynamically adjust processor voltage and core frequency, decreasing average power consumption and heat production.
	Default: ON
C-States Control	
Enable C-State Control	Enables or disables the CPU's ability to enter and exit low-power states.
	Default: ON
Enable Adaptive C-States for Discrete Graphics	Allows the computer to dynamically detect high usage of a discrete graphics and adjust the computer parameters for higher performance during that time period.
	Default: ON
Intel Turbo Boost Technology	
Enable Intel Turbo Boost Technology	Enabled or disabled the Intel TurboBoost mode of the processor. If enabled, the Intel TurboBoost driver increases the performance of the CPU or graphics processor.
	Default: ON
Intel Hyper-Threading Technology	
Enable Intel Hyper-Threading Technology	Enabled or disabled the Intel Hyper-Threading mode of the processor. If enabled, the Intel Hyper-Threading increases the efficiency of the processor resources when multiple threads run on each core.
	Default: ON
Dynamic Tuning:Machine Learning	
Enable Dynamic Tuning:Machine Learning	Enables or disables OS capability to enhance dynamic power tuning capabilities based on detected workloads.
	Default: OFF

Table 44. System setup options—System Logs menu

System Logs	
BIOS Event Log	

Table 44. System setup options—System Logs menu (continued)

System Logs	
Clear Bios Event Log	Select keep or clear BIOS events.
	By default, Keep is selected.
Thermal Event Log	
Clear Thermal Event Log	Select keep or clear Thermal events.
	By default, Keep is selected.
Power Event Log	
Clear POWER Event Log	Select keep or clear Power events.
	By default, Keep is selected.

Clearing BIOS (System Setup) and System passwords

About this task

To clear the system or BIOS passwords, contact Dell technical support as described at www.dell.com/contactdell.

(i) **NOTE:** For information on how to reset Windows or application passwords, refer to the documentation accompanying Windows or your application.

Getting help

Topics:

Contacting Dell

Prerequisites

ⓘ **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.