Dell Latitude 3500

Setup and specifications guide



Notes, cautions, and warnings

(i) 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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1

Set up your computer

Steps

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



- 2. Follow the instructions on the screen to finish Windows setup:
 - a) Connect to a network.

Let's get connected	
Pick a network and go online to finish setting up this device.	
Connections	
Connected	
Wi-Fi	
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(f)	
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(ii,	
Skip this step	
G	

b) Sign-in to your Microsoft account or create a new account.

Make it yours	
Your Microsoft account opens a world of benefits. Learn more	
1 & # 6 = 0 b / =	
Email or phone	
Password	
Forgot my password	
No account? Create one!	
Microsoft privacy statement	

3. Locate Dell apps.

Table 1. Locate Dell apps

Features

Specifications



Register your computer

Dell Help & Support



Dell Help & Support		Search	- ۵
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Inspiron Service Top Decis Service Code	FEATURED HELP ARTICLES	A STA	S ANA
Important drivers are current	A new look for settin	gs	
Warranty		205	
SupportAssist		-	
Manuals	HELP CATEGORIES		
	HELP CATEGORIES		
	Getting Around Windows 10 Connecting and Accesso	to Wireless	tting Up Accounts d Personalization
	Getting to Know Your	r System Find Accessori	
D feebal	Device and Software 🕒 Healthy		



 $\label{eq:supportAssist} \mbox{---} Check \mbox{ and update your computer}$

2

Chassis overview

Front view

Latitude 3500 with Non-Touch screen



- 1. Camera
- 2. Camera status light
- 3. Microphone
- 4. LCD Panel

Latitude 3500 with Touch screen (optional)



- 1. Microphone
- 2. Camera
- 3. Camera status light
- 4. LCD Panel





- 1. Power connector
- 2. Battery status light
- 3. USB Type-C 3.1 Gen 1 port with Power delivery and DisplayPort

- 4. HDMI 1.4 port
- 5. Network port
- 6. USB 3.1 Gen 1 ports
- 7. Headset port

Right view



- 1. SIM card slot
- 2. SD 3.0 memory card reader
- **3.** USB 2.0 port
- 4. VGA port
- 5. Noble Wedge Lock slot

Base view



- 1. Heatsink vent
- 2. Service tag label
- 3. Speakers

Palmrest view

Palmrest view without Fingerprint reader



- 1. Power button
- 2. Keyboard
- 3. Touchpad

Palmrest view with Fingerprint reader (optional)



- 1. Power button with Touch Fingerprint reader (optional)
- 2. Keyboard
- 3. Touchpad

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	Toggle Fn-key lock.
Fn + F1	Mute audio
Fn + F2	Decrease volume
Fn + F3	Increase volume
Fn + F4	Play previous
Fn + F5	Play/Pause
Fn + F6	Play next
Fn + F8	Switch to external display

Keys	Description
Fn + F9	Search
Fn + F10	Toggle keyboard back light.
Fn + F11	Decrease brightness
Fn + F12	Increase brightness
Fn + PrtScr	Toggle Wireless On/Off
Fn + Ctrl	Open application

System specifications

System information

Table 3. System information

Feature	Specifications
Chipset	Integrated in the processor
DRAM bus width	64-bit
FLASH EPROM	16 MB
PCIe bus	Up to Gen3

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

Туре	UMA Graphics	Discrete Graphics
Intel Celeron 4205U processor (2 MB cache, 2 core count/2 threads, 1.8 GHz)	Intel UHD Graphics 620	NA
8th Gen Intel Core i3-8145U processor (4 MB cache, 2 core count/ 4 threads, 2.1 GHz upto 3.9 GHz with Turbo boost, 15 W TDP)	Intel UHD Graphics 620	NA
8th Gen Intel Core i5-8265U processor (6 MB cache, 4 core count/ 8 threads, 1.6 GHz upto 3.9 GHz with Turbo boost, 15 W TDP)	NA	Nvidia GeForce MX130 graphics
8th Gen Intel Core i5-8365U processor (6 MB cache, 4 core count/ 8 threads, 1.6 GHz upto 4.1 GHz with Turbo boost, 15 W TDP)	Intel UHD Graphics 620	Nvidia GeForce MX130 graphics
8th Gen Intel Core i7-8565U processor (8 MB cache, 4 core count/ 8 threads, 1.8 GHz upto 4.6 GHz with Turbo boost, 15 W TDP)	NA	Nvidia GeForce MX130 graphics

Memory

Table 5. Memory specifications

Feature	Specifications
Minimum memory configuration	4 GB
Maximum memory configuration	32 GB
Number of slots	2 SODIMM
Maximum memory supported per slot	16 GB
Memory options	 4 GB (1 × 4 GB) 8 GB (2 × 4 GB) 8 GB (1 × 8 GB) 16 GB (2 × 8 GB) 16 GB (1 × 16 GB) 32 GB (2 × 16 GB)
Туре	DDR4 SDRAM Non-ECC memory
Speed	2400 MHz

Storage

Table 6. Storage specifications

Туре	Form factor	Interface	Capacity
Hard Disk Drive	SATA	SATA Gen 3 (5400 RPM)	Up to 1 TB
SATA Solid-State Drive (Class 20)	M.2 SSD 2280	SATA Gen 3	Up tp 1 TB
PCle NVMe Solid-State Drive (Class 35)	M.2 SSD 2280	PCle Gen 3x4 NVMe, up to 32 Gbps	Up to 1 TB
PCIe NVMe Solid-State Drive (Class 35)	M.2 SSD 2230	PCle Gen 3x4 NVMe, up to 32 Gbps	Up to 1 TB
PCIe NVMe Solid-State Drive (Class 40)	M.2 SSD 2280	PCle Gen 3x4 NVMe, up to 32 Gbps	Up to 1 TB

Intel Optane memory—optional

Intel Optane memory functions only as a storage accelerator. It neither replaces nor adds to the memory (RAM) installed on your computer.

() NOTE: Intel M15 Optane memory is supported on computers that meet the following requirements:

- 8th Generation or higher Intel Core i3/i5/i7 processor
- Windows 10 64-bit version 1607 or higher (Anniversary Update)
- Intel Rapid Storage Technology driver version 17.0 or higher
- UEFI BIOS configuration

Table 7. Intel Optane memory specification

Specifications

Feature Interface

PCle3x4 NVMe

Feature	Specifications
Connector	M.2 card slot (2280)
Configurations supported	 8th Generation or higher Intel Core i3/i5/i7 processor Windows 10 64-bit version 1607 or higher (Anniversary Update) Intel Rapid Storage Technology driver version 17.0 or higher UEFI BIOS configuration
_	

Capacity

32 GB

System board connectors

Table 8. System board connectors

Feature	Specifications
M.2 Connectors	One M.2 2280 Key-M Connector
	One M.2 2230 Key-M Connector

Media card-reader

Table 9. Media-card reader specifications

Feature	Specifications
Туре	One SD-card slot
Supported cards	SD 3.0

Audio

Table 10. Audio specifications

Feature	Specifications
Controller	Realtek ALC3204
Speakers	Two
Interface	 Universal audio jack High quality speakers Noise reducing array microphones Stereo headset/mic combo

2W (RMS) per channel

Internal speaker amplifier

Video card

Table 11. Video card specifications

Controller	Туре	CPU Dependency	Graphics memory type	Capacity	External display support	Maximum resolution
Intel UHD Graphics 620	UMA	 Intel Core i7-8565U CF 	Integrated	Shared system memory	 HDMI 1.4b port VGA port DisplayPort 	 1920 x 1200 @ 60Hz

Controller	Туре	CPU Dependency	Graphics memory type	Capacity	External display support	Maximum resolution
		 Intel Core i5-8265U CP Intel Core i3-8145U CPU 				 1920 x 1200 @ 60Hz 3840 x 2400 @ 60Hz
Nvidia GeForce MX130 equivalent, 2 GB	Discrete	NA	GDDR5	2 GB	HDMI 1.4b portVGA portDisplayPort	 1920 x 1200 @ 60Hz 1920 x 1200 @ 60Hz 3840 x 2400 @ 60Hz

Camera

Table 12. Camera specifications

Feature	Specifications
Resolution	Camera:
	Still image: 0.92 megapixels
	 Video: 1280 x 720 at 30 fps
	Still image: 0.92 megapixels
	 Video: 1280 x 720 at 60 fps
Diagonal viewing angle	Camera - 86.7 degrees

Communication

Table 13. Communication specifications

Feature	Specifications
Network adapter	Integrated Realtek RTL8111H/100/1000 Mb/s Ethernet (RJ-45)

Wireless

Table 14. Wireless specifications

Specifications

Qualcomm QCA9377 802.11ac Single Band (1x1) Wireless Adapter + Bluetooth 4.1

Qualcomm QCA61x4A 802.11ac Dual Band (2x2) Wireless Adapter + Bluetooth 4.2

Intel Dual-Band Wireless-AC 9560 Wi-Fi + Bluetooth 5.0 Wireless Card (2x2). Bluetooth (Optional)

Intel Wi-Fi 6 AX200 2x2 .11ax 160MHz + Bluetooth 5.0

Dell DW5820e Intel 7360 LTE-A; LTE Cat 9

Ports and connectors

Table 15. Ports and connectors

Feature	Specifications
Memory card reader	One SD 3.0 memory card reader
USB	 One USB Type–C 3.1 Gen 1 with Power Delivery and DisplayPort One USB 3.1 Gen 1 port One USB 3.1 Gen 1 with PowerShare port One USB 2.0 port
Security	Noble wedge lock slot
Audio	Universal audio jack
Video	One VGA and HDMI 1.4 port
Network adapter	One RJ-45 connector
Others	Touch Fingerprint reader in Power Button (optional) One external uSIM card tray option

Display

Table 16. Display specifications

Feature	Specifications
Туре	 15.6 inch HD (1366 x 768) Anti-Glare Non-Touch, 220 nits, TN, eDP 1.2, 16:9, HD camera and single microphone 15.6 inch FHD (1920 x 1080) Anti-Glare Non-Touch, 220 nits, TN, eDP 1.2, 16:9, HD camera and single microphone 15.6 inch FHD (1920 x 1080) TrueLife with Embedded Touch, 220 nits, TN, eDP 1.2, 16:9, IR camera and dual microphone
Pixels Per Inch (PPI)	HD: 100 FHD: 142
Refresh rate	60 Hz
Horizontal viewing angle (min)	+/- 40 degrees
Vertical viewing angle (min)	+10/- 30 degrees

Keyboard

Table 17. Keyboard specifications

Feature	Specifications
Number of keys	 103 (U.S. and Canada) 104 (Europe) 106 (Brazil) 107 (Japan)

Feature	Specifications
Size	Full sized
	 X= 19.00 mm key pitch Y= 19.00 mm key pitch
Keyboard	Single pointing non-backlit keyboard.Backlit keyboard (optional)
Layout	QWERTY/AZERTY/Kanji

Touchpad

Table 18. Touchpad specifications

Feature	Specifications
Resolution	Horizontal: 305Vertical: 305
Dimensions	 Width: 4.13 inch (105 mm) Height: 3.15 inch (80 mm)
Multi-touch	Supports four fingers

Operating system

Table 19. Operating system

Feature	Specifications
Operating systems supported	 Microsoft Windows 10 Home 64 bit Microsoft Windows10 Professional 64 bit Windows 10S (with UMA Only)
	 Ubuntu 18.04 LTS 64-bit

Battery

Table 20. Battery specifications

Feature	Specifications
Туре	 42 WHr "smart" lithium-ion 3 cell battery 56 WHr "smart" lithium-ion 4 cell battery
Dimension	42 WHr "smart" lithium-ion
	 Length: 175.5 mm (6.909 inch) Width: 91 mm (3.58 inch) Height: 5.9 mm (0.23 inch) Weight: 177.7g
	56 WHr "smart" lithium-ion
	 Length: 233.17 mm (9.18 inch) Width: 91 mm (3.58 inch) Height: 5.9 mm (0.23 inch)

• Weight: 236.00 g

Feature	Specifications
Weight (maximum)	252 g
Voltage	 42 WHr - 11.4 VDC 56 WHr - 15.2 VDC
Life span	300 discharge/recharge cycles
Charging time when the computer is off (approximate)	4 hours
Operating time	Varies depending on operating conditions and can significantly reduce under certain power-intensive conditions
Temperature range: Operating	0°C to 35°C (32°F to 95°F)
Temperature range: Storage	-40°C to 65°C (-40°F to 149°F)
Coin-cell battery	ML1220

Power adapter

Table 21. Power adapter specifications

Feature	Specifications
Туре	 45 W adapter 4.5 mm barrel 65 W adapter 4.5 mm barrel 65 W adapter, USB Type-C 90 W adapter, USB Type-C
Input Voltage	100 VAC-240 VAC
Input current (maximum)	 180 W - 1.7 A 180 W - 2.5 A
Input frequency	50 Hz-60 Hz
Output current	180 W - 3.34 A (continuous)
Rated output voltage	19.5 VDC
Temperature range (Operating)	0º to 40º C (32º to 104º F)
Temperature range (Non-Operating)	40° to 70° C (-40° to 158° F)

Dimensions and weight

Table 22. Dimensions and weight

Feature	Specifications
Height	Front height - 0.71 inch (18.0 mm)
	Back height - 0.71 inch (18.0 mm)
Width	14.91 inch (378.66 mm)
Depth	10.05 inch (255.35 mm)
Weight	Starting 4.37 lb (1.98 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) i NOTE: Maximum dew point temperature = 26°C	10% to 95% (non-condensing) i NOTE: Maximum dew point temperature = 33°C
Vibration (maximum)	0.26 GRMS	1.37 GRMS
Shock (maximum)	105 G [†]	40 G [‡]
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.

 $\ensuremath{^+}\xspace$ Measured using a 2 ms half-sine pulse when the hard drive is in use.

‡ Measured using a 2 ms half-sine pulse when the hard-drive head is in parked position.

Security

Table 24. Security

Feature	Specifications
Trusted Platform Module (TPM) 2.0	Integrated on the system board
Firmware TPM	Optional
Windows Hello Support	Optional

Security Software

Table 25. Security Software

Feature	Specifications
Dell Endpoint Security Suite Enterprise	Optional
Dell Data Guardian	Optional
Dell Encryption (Enterprise or Personal)	Optional
Dell Threat Defense	Optional
RSA SecurID Access	Optional
RSA NetWitness Endpoint	Optional
MozyPro or MozyEnterprise	Optional
VMware Airwatch/WorkspaceONE	Optional
Absolute Data & Device Security	Optional

Miscellaneous software

Table 26. Miscellaneous software

Feature	Specifications
Dell Precision Optimizer V3.0	Standard
Teradici PCoIP Workstation Access Software	Optional

Software

4

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

Topics:

Downloading drivers

Downloading 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: 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.

Boot options

Table 27. General

Option	Description
Boot Mode	Allows you to change the order in which the computer attempts to find an operating system.
	The options are:
	 Windows Boot Manager UEFI Hard Drive
	The Boot Sequence window allows you to change the boot sequence options.
	Click one of the following options:
	 Add Boot Option Remove Boot option View
Bios Setup Advanced Mode	Allows you to Enable or Disable BIOS Setup Advance mode settings.
UEFI Boot Path Security	Allows you to control whether the system prompts the user to enter the Admin password when booting to a UEFI boot path.
	Click one of the following options:
	 Always, Except Internal HDD—Default Always Never

System configuration

Table 28. System Configuration

Option	Description
Date/Time	Allows you to set the date and time. The change to the system date and time takes effect immediately.
Enable SMART Reporting	This field controls whether hard drive errors for integrated drives are reported during system startup. This technology is part of the SMART (Self Monitoring Analysis and Reporting Technology) specification. This option is disabled by default.
Integrated NIC	Allows you to configure the integrated network controller.
	Click one of the following options:
	Enable UEFI Network Stack
	If enabled, UEFI networking protocols are installed, allowing pre-OS and early OS networking features to use enabled NICs. This maybe used without PXE turned on.
	Integrated NIC
	· Disabled
	Enabled Enabled w/PXE—Default
Enable Audio	Allows you to switch all integrated audio On/Off, or enable/disable the microphone and the internal speaker separately.
	The options are:
	 Enable Audio Enable Microphone Enable Internal Speaker
	This option is enabled by default.
USB Configuration	Allows you to enable or disable the internal/integrated USB configuration.
	The options are:
	Enable USB Boot Support Enable External USB Ports
	All the options are set by default.
	() NOTE: USB keyboard and mouse always work in the BIOS setup irrespective of these settings.
SATA Operation	Allows you to configure the operating mode of the integrated SATA hard drive controller.
	Click one of the following options:
	· Disabled
	AHCI RAID—Default
	() NOTE: SATA is configured to support RAID mode.
Drives	Allows you to enable or disable various drives on board.
	The options are:
	· SATA-0

Option	Description
	M.2 PCIe SSD-0/SATA-2
	All the options are set by default.
Miscellaneous devices	Allows you to enable or disable various on board devices.
	Enable Camera—Default
	 Enable Hard Drive Free Fall Protection—Default Enable Secure Digital (SD) Card—Default Secure Digital Card (SD) Read-Only Mode Secure Digital (SD) Card Boot
Enable USB PowerShare	Allows you to On or Off external devices to be powered or charged using the stored system battery.
Keyboard Illumination	This field lets you choose the operating mode of the keyboard illumination feature. The keyboard brightness level can be set from 0% to 100%.
	The options are:
	 Disabled Dim Bright—Default
Keyboard Backlight Tmeout on AC	Allows you to define the timeout value for the keyboard backlight when an AC adapter is plugged in the system. The Keyboard Backlight timeout value is only in effect when the backlight is enabled.
	· 5 seconds
	 10 seconds—Default 15 seconds
	· 30 seconds
	· 1 minute
	 5 minutes 15 minutes
	· Never
Keyboard Backlight Tmeout on Battery	Allows you to define the timeout value for the keyboard backlight when the system is running only on battery power. The Keyboard Backlight timeout value is only in effect when the backlight is enabled.
	· 5 seconds
	 10 seconds—Default 15 seconds
	· 30 seconds
	· 1 minute
	 5 minutes 15 minutes
	· Never
Unobtrusive Mode	Enable unobtrusive Mode
	When On, this option turns off all system light and sound. It is set to 'OFF' by default.
Touchscreen	It allows you to enable or disable the touch screen in the Operating System. It is set to 'ON' by default.
DellCoreServices	This option controls boot time creation of an SSDT ACPI Virtual Device Table.

Dell Type-C Dock Configuration

Description

Allows you to enable or disable Dell Docks configuration settings.

Video screen options

Table 29. 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).

Security

Table 30. Security

Option	Description
Enable Admin Setup	Allows you to prevent users from entering Setup when an administrator password is set.
Lockout	• Enable Admin Setup Lockout
	This option is not set by default.
Enable CPU XD Support	Allows you to enable or disable CPU XD support.
	This option is enabled by default.
Password Bypass	When enabled, it prompts for system and internal hard drive passwords when the system is powered on from the Off state.
	 Disabled—default Reboot Bypass
Enable Non-Admin	Allows you to change system and hard drive password.
Password Changes	This option is enabled by default.
Non-Admin Setup Changes	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.
	Allow Wireless Switch Changes
	This option is not set by default.
Enable UEFI Capsule	Allows you to update the system BIOS through UEFI capsule update packages.
Firmware Updates	• Enable UEFI Capsule Firmware Updates
	This option is set by default.
TPM 2.0 Security	Allows you to enable or disable the Trusted Platform Module (TPM) during POST.
	The options are:
	• TPM On—Default
	· Clear
	 PPI Bypass for Enable Command—Default PPI Bypass for Disbale Command
	PPI Bypass for Clear Command
	Attestation Enable—Default
	Key Storage Enable—Default
	· SHA-256—Default

Option	Description	
PPI Bypass for Enable	This option controls the TPM Physical Presence Interface.	
Commands	This option is enabled by default.	
PPI Bypass for Disable	This option controls the TPM Physical Presence Interface.	
Commands	This option is not set by default.	
PPI Bypass for Clear	This option controls the TPM Physical Presence Interface.	
Commands	This option is not set by default.	
Attestation Enable	This option lets you control the TPM endorsement Hierarchy available in the Operating System. The option restricts the ability to use the TPM for signing and signature operations.	
	This option is enabled by default.	
Key Storage Enable	This option lets you control the TPM endorsement Hierarchy available in the Operating System. The setting restricts the ability to use the TPM for storing owner data.	
	This option is enabled by default.	
SHA-256	This lets you control the SHA-256 configuration options.	
	This option is enabled by default.	
Clear	This option lets you clear the TPM owner information.	
TPM State	This option lets you enable or disable TPM.	
	 Disabled Enabled 	
	This option is enabled by default.	
Intel Paltform Trust Technology On	This option lets you control if the Intel Platform Trust Technology feature needs to be visible in the Operating System.	
	This option not set by default.	
Intel SGX	If enabled, it provides a secure environment for running codes and storing information of the Operating System.	
	 Disabled Enabled Software Control—Default 	
SMM Security Mitigation	Allows you to enable or disable extra UEFI SMM Security Mitigation protection.	
	SMM Security Mitigation	
	This option is not set by default.	

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Passwords

Table 31. Passwords

Option	Description	
Enable Strong Passwords	Allows you to set strict rules for admin and system passwords.	
	The option is not set by default.	
Password Configuration	Allows you to set or change the minimum and maximum characters for Admin and System password.	
	 Admin Password Min Admin Password Max 	

Option	Description
	 System Password Min System Password Max
Admin Password	Allows you to set, change, or delete the administrator(admin) password.
	The entries to set password are:
	 Enter the old password: Enter the new password: Confirm new password:
	Click OK once you set the password.
	() NOTE: 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.
System Password	Allows you to set, change, or delete the System password.
	The entries to set password are:
	 Enter the old password: Enter the new password: Confirm new password:
	Click OK once you set the password.
	(i) NOTE: 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.
Internal HDD-0 Password	Allows you to change the hard drive password.
	The entries to set password are:
	 Enter the old password: Enter the new password: Confirm new password:
Enable Master Password Lockout	This option disables master password support. The option is not set by default.

Secure boot

Table 32. Secure Boot	
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Option	Description
Enable Secure Boot	Allows you to enable or disable the Secure Boot Feature.
	Secure Boot Enable—Default
Secure Boot Mode	Changes to the Secure Boot operation mode modifies the behaviour of Secure Boot to allow evaluation of UEFI driver signatures.
	Choose one of the option:
	Deployed Mode—Default

· Audit Mode

Expert Key Management

Table 33. Expert Key Management

Option	Description
Expert Key Management	Allows you to enable or disable Expert Key Management.
	Custom Mode Key Management
	This option is not set by default.
	The Custom Mode Key Management options are:
	 PK—Default KEK db dbx

Performance

Table 34. Performance

Option	Description
Intel Hyper-Threading Technology	Allows you to enable or disable the HyperThreading in the processor.
	This option is set by default.
Intel SpeedStep	Allows you to enable or disable the Intel SpeedStep mode of processor.
	Enable Intel SpeedStep Technology
	This option is set by default.
Intel TurboBoost Technology	Allows you to enable or disable the Intel TurboBoost mode of the processor.
	Enable Intel TurboBoost
	This option is set by default.
Active Cores	This setting enables you to change the number of CPU cores available to the Operating System.
	 All Cores—Default 1
Enable C-State Control	Allows you to enable or disable the additional processor sleep states.
	· C states
	This option is set by default.

Power management

Table 35. Power Management

Option	Description	
AC Behavior	Allows you to enable or disable the computer from turning on automatically when an AC adapter is connected.	

Option	Description	
	· Wake on AC	
	This option is not set by default.	
Auto On Time	Allows you to set the time at which the computer must turn on automatically.	
	The options are:	
	· Disabled —Default	
	· Every Day	
	 Weekdays Select Days 	
	This option is not set by default.	
Peak Shift	Allows you to block entering to sleep in operating system environment.	
Battery Charge	Allows you to select the charging mode for the battery.	
Configuration	The options are:	
	· Adaptive—Default	
	• Standard - Fully charges your battery at a standard rate.	
	 ExpressCharge- The battery charges over a shorter period using Dell's fast charging technology. Primarily AC use 	
	· Custom	
	If Custom Charge is selected, you can also configure Custom Charge Start and Custom Charge Stop.	
	() NOTE: All charging mode may not be available for all the batteries. To enable this option, disable the Advanced Battery Charge Configuration option.	
Enable Advanced Battery Charge Configuration	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 nonwork hours to improve the battery health.	
Block Sleep	This option minimizes AC power usage at times of peak demand.	
Wake on LAN/WLAN	This option allows the computer to power up from the off state when triggered by a special LAN signal. Wake-up from the Standby state is unaffected by this setting and must be enabled in the operating system. This feature only works when the computer is connected to AC power supply.	
	• Disabled —Default - Does not allow the system to power on by special LAN signals when it receives a wake-up signal from the LAN or wireless LAN.	
	LAN Only - Allows the system to be powered on by special LAN signals.	
Enable USB Wake Support	Allows you to enable USB devices to wake the system from standby.	
	· Enable USB Wake Support	
	This option is not set by default.	
Wake on Dell USB-C Dock	When Wake on Dell USB-C Dock is enabled, connecting a Dell USB-C Dock will wake the system from Standby.	
Wireless Radio Control	If enabled, this feature sense the connection of the system to a wired network and subsequently disable the selected wireless radios.	
	 Control WLAN radio Control WWAN radio 	
Intel Speed Shift	Allows you to enable or disable the Intel Speed Shift Technology.	
Technology	• Enabled—Default	
Force Lpm And Aspm Off	Force SATA/USB low-power mode and Active State Power Management (ASPM) off in manufacturing mode.	

Wireless options

Table 36. Wireless

Option	Description
Wireless Switch	Allows to set the wireless devices that can be controlled by the wireless switch.
	The options are:
	 WLAN Bluetooth
	All the options are enabled by default.
Wireless Device Enable	Allows you to enable or disable the internal wireless devices.
	The options are:
	· WLAN
	· Bluetooth

All the options are enabled by default.

Post behavior

Table 37. POST Behavior

Option	Description
Enable Numlock	The option specifies if the Numlock function should be enabled when the system boots.
	The option is set by default.
Enable Adapter Warnings	Allows you to enable or disable the system setup (BIOS) warning messages when you use certain power adapters.
	Enable Adapter Warnings—Default
Extended BIOS POST	Allows you to create an additional preboot delay.
Time	Click one of the following options:
	 0 seconds—Default 5 seconds 10 seconds
Fastboot	Allows you to speed up the boot process by bypassing some of the compatibility steps.
	Click one of the following options:
	 Minimal Thorough—Default Auto
Fn Lock Options	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.
	• Fn Lock—Default
	Click one of the following options:
	 Lock Mode Disable/Standard Lock Mode Enable/Secondary—Default
Full Screen Logo	Allows you to display full screen logo, if your image matches screen resolution.

Option	Description
	· Enable Full Screen Logo
	This option is not set by default.
Warnings and Errors	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.
	Click one of the following options:
	 Prompt on Warnings and Errors—Default Continue on Warnings Continue on Warnings and Errors
MAC Address Pass- Through	This feature replaces the external NIC MAC address with the selected MAC address from the system.
	Click one of the following options:
	 Passthrough MAC Address—Default Integrated NIC 1 MAC Address

Integrate
 Disabled

Virtualization support

Table 38. Virtualization Support

Option	Description
Virtualization	This option specifies whether a Virtual Machine Monitor (VMM) can utilize the additional hardware capabilities provided by the Intel Virtualization technology.
	Enable Intel Virtualization Technology
	This option is set by default.
VT for Direct I/O	Enables or disables the Virtual Machine Monitor (VMM) from utilizing the additional hardware capabilities provided by the Intel Virtualization technology for direct I/O.
	Enable VT for Direct I/O
	This option is set by default.

Maintenance

Table 39. Maintenance

Option	Description
Asset Tag	Allows you to create a system asset tag if an asset tag is not already set.
	This option is not set by default.
Service Tag	Displays the service tag of your computer.
Bios Recovery from Hard Drive	BIOS Recovery from Hard Drive —This option is set by default. Allows you to recover the corrupted BIOS from a recovery file on the hard drive or an external USB key.
	BIOS Auto-Recovery—Allows you to recover the BIOS automatically.
	() NOTE: BIOS Recovery from Hard Drive field should be enabled.
	Always Perform Integrity Check—Performs integrity check on every boot.
BIOS Auto-Recovery	Allows you to automatically recover BIOS without any user action.

Option	Description
	· Allow BIOS Downgrade
	This option is not set by default.
Start Data Wipe	Allows you to securely erase data from all internal storage devices.
	· Wipe on Next Boot
	This option is not set by default.

System logs

Table 40. System Logs

Option	Description
Power Event Log	Allows you to view and clear the System Setup (Power) events.
BIOS event Log	Allows you to view and clear the System Setup (BIOS) POST events.

SupportAssist system resolution

Table 41. SupportAssist System Resolution

Option	Description
Dell Auto OS Recovery Threshold	This option controls the automatic boot flow for SupportAssist System Resolution console and for Dell OS recovery Tool.
	Click one of the options below:
	· OFF
	· 1
	· 2 —Default
	. 3

Getting help

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Contacting Dell

Prerequisites

(i) 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.