Dell Precision 7540

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

- 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
°(a
(in the second
• ///
CC
ae maion
G

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

Your Microsoft account opens a	vorld of benefit	s. Learn more	
]	> 3/ =		
Email or phone			
Password			
Forgot my password			
No account? Create one!			

3. Locate Dell apps.

Table 1. Locate Dell apps

Features

Register your computer

Specifications

Dell Help & Support



Seech Q — X
FERUNDING ARTICLE
A new look for settings
1
Getting Around Windows 10 Connecting to Wireless Setting Up Accounts and Personalization
Getting to Know Your Expiring Your System Find Accessories Control Device and Software



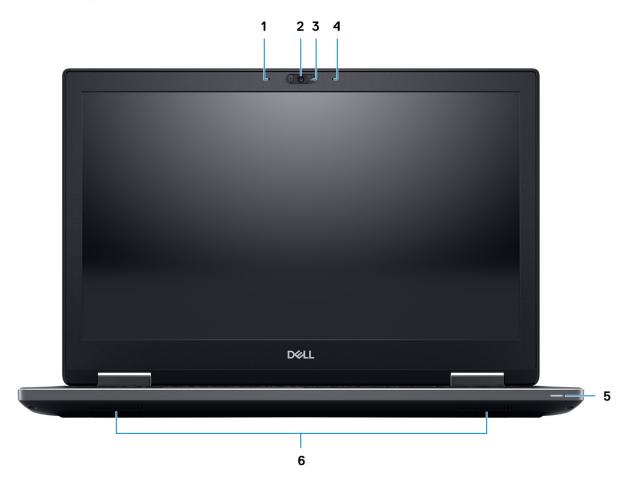
 $\label{eq:supportAssist} \mbox{---} Check \mbox{ and update your computer}$

2 Chassis

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

- Front open view
- Left view
- Right view
- Palmrest view
- Back view
- Bottom view
- Hot key definition

Front open view



- 1. Microphone (Optional)
- 3. Camera-status light (optional)
- 5. Battery status light

- 2. Camera-with shutter (Optional)
- 4. Microphone (Optional)
- 6. Speakers

Left view



1. Thunderbolt 3 Type-C port

- 2. SD Card reader
- 3. Smartcard reader

Right view



- 1. Headset port
- 2. USB 3.1 Gen 1 ports with PowerShare
- 3. Security cable slot

Palmrest view



- 1. Power button
- 3. Fingerprint reader (optional)
- 5. Touchpad

- 2. Keyboard
- 4. Contactless Card Reader (optional)

Back view



Bottom view



1. Service tag label

Hot key definition

Table 2. Keyboard shortcut keys

Hot keys	Function
Fn+ESC - Fn Lock	Allows the user to toggle between locked and unlocked Fn keys.
Fn+F1 - Audio Volume Mute	Temporarily mutes/unmutes the audio. The audio level before muting is returned after unmuting.
Fn+F2 – Audio Volume Down/Decrease	Decreases the audio volume until minimum/off is reached.
Fn+F3 – Audio Volume Up/Increase	Increases the audio volume until maximum is reached.
Fn+F4 – Microphone Mute	Silences the on-board microphone so it cannot record audio. There is an LED on the F4 function key that notifies the user of the state of this feature:
	 LED off = microphone capable of recording audio LED on = microphone muted and unable to record audio
Fn+F6—Scroll lock	Used as Scroll Lock key.
Fn+F8 – LCD and Projector display	Determines video output to LCD and external Video devices when attached and displays present.
Fn+F9 – Search	Mimics the Windows key + F keystroke to open Windows Search dialog box.
Fn+F10 – KB Illumination/Backlight	Determines the Keyboard Illumination/Backlight brightness level. The hot key cycles through the following brightness states when pressed: Disabled, Dim, Bright. For more detail, see Keyboard Illumination/Backlight section.

Hot keys	Function
Fn+F11 - Print screen	It is used as Print Screen key
Fn+F12 - Insert	It is used as Insert key
Fn+RightCtrl – Context Menu	It is used as Context Menu key. (a.k.a. Right-Click menu)
Fn+Left Cursor—Home	It is used as Home key.
Fn+Right Cursor – End	It is used as End key.
Fn+B – Pause/Break	It is used as Pause/Break key. Specifically, Fn+B = Pause and Fn +Ctrl+B = Break.
Fn+Arrow Key (Up) – Brightness Decrease	Decreases the stepping of LCD brightness for each press until minimum is reached. For details, see the LCD Brightness section.
Fn+Arrow Key (Down) – Brightness Increase	Increases the stepping of LCD brightness for each press until maximum is reached. For details, see the LCD Brightness section.
Fn+Home - Radio On/Off	Toggles all the radios on and off. For example, WLAN, WWAN, and Bluetooth.
Fn+End - Sleep	Puts the system into the ACPI S3 State and does not wake the system.

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:

- Technical specifications
- Support policy

Technical 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.

System information

Table 3. System information

Features	Specifications
Chipset	Intel CM246 chipset
DRAM bus width	64-bit per channel (total 128 bit)
FLASH EPROM	48 kHz
PCIe bus	8 Gbps
External bus frequency	DMI 3.0-8GT/s

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
9th Gen Intel I5-9400H (4 core / 8 TH / 2.5 Ghz up to 4.3 GHz / 8 M cache / 45 W)	Integrated Intel UHD 630
9th Gen Intel I7-9750H (6 core / 12 TH / 2.6 Ghz up to 4.5 GHz / 12 M cache / 45 W)	Integrated Intel UHD 630
9th Gen Intel I7-9850H (6 core / 12 TH / 2.6 Ghz up to 4.6 GHz / 12 M cache / 45 W)	Integrated Intel UHD 630
9th Gen Intel I9-9880H (8 core / 16 TH / 2.3 GHz up to 4.8 GHz / 16 M cache / 45 W)	Integrated Intel UHD 630

Туре	UMA Graphics
9th Gen Intel I9-9980HK (8 core / 16 TH / 2.4 GHz up to 5.0 GHz / 16 M cache / 45 W)	Integrated Intel UHD 630
9th Gen Intel Xeon E-2276M (6 core / 12 TH / 2.8 GHz up to 4.7 GHz / 12 M cache / 45 W)	Integrated Intel UHD P630
9th Gen Intel Xeon E-2286M (8 core / 16 TH / 2.4 Ghz up to 5.0 GHz / 16 M cache / 45 W)	Integrated Intel UHD P630

Memory

Table 5. Memory specifications

Feature	Specifications
Minimum memory configuration	8 GB
Maximum memory configuration	128 GB
Number of slots	4 SODIMM
Maximum memory supported per slot	32 GB
Memory options	 8 GB - 1 x 8 GB 16 GB - 1 x 16 GB 16 GB - 2 x 8 GB 32 GB - 1 x 32 GB 32 GB - 2 x 16 GB 32 GB - 4 x 8 GB 64 GB - 4 x 16 GB 64 GB - 2 x 32 GB 128 GB - 4 x 32 GB
Туре	DDR4 SDRAM ECC and Non-ECC memory
Speed	 2666 MHz 3200 MHz

Table 6. Memory population rules

DIMM Sku	Implementation
X1	В
X2	B+D
X3	A+B+C+D

Location of channel A, B, C, D:

1. B and D under Keyboard– Slot B close to touchpad and Slot D close to LCD

2. A and C under Base- Slot C close to rear Input/Output and Slot A close to the battery

Storage

Table 7. Storage specifications

Туре	Form factor	Interface	Security option	Capacity
Three Solid-State Drive (SSD)	M.2 2280	 PCle 4x4 NVMe, Up to 32 Gbps 	SED	Up to 512 GBUp to 2 TB
One 2.5" Hard-Disk Drive (HHD) with 4 cell battery only		SATA AHCI, Up to 6 Gbps	SED FIPS	Up to 2 TB

Media card-reader

Table 8. Media-card reader specifications

Features	Specifications
Туре	One SD-card slot
Supported cards	 SD SDHC SDXC

Audio

Table 9. Audio specifications

Features	Specifications	
Controller	Realtek ALC3281	
Туре	Four-channel high-definition audio	
Speakers	Two (Directional speakers)	
Interface	 Universal audio jack Stereo headphone Stereo headset Stereo line in Microphone in Stereo line out 	
Internal encolver emplifier	$\Omega M (D M C)$ per channel	

Internal speaker amplifier

2W (RMS) per channel

Video

Table 10. Video specifications

Controller	Туре	CPU Dependency	Graphics memory type	Capacity	External display support	Maximum resolution
Intel UHD Graphics 630	UMA	 Intel Core Processor i5 Intel Core Processor i7 	Integrated	Shared system memory	mDP/HDMI/ Type- C	4096 × 2304

Controller	Туре	CPU Dependency	Graphics memory type	Capacity	External display support	Maximum resolution
		 Intel Core Processor i9 				
Intel UHD Graphics P630	UMA	Intel Xeon	Integrated	Shared system memory	mDP/HDMI/ Type- C	4096 × 2304
Radeon Pro WX 3200	Discrete	NA	GDDR5	4 GB	HDMI/mDP/USB-C	 Single DisplayPort 1.4 - 7680 x 4320 (8k) @ 30 Hz Dual DisplayPort 1.4 - 7680 x 4320 (8k) @ 60 Hz HDMI 2.0 - 4096 x 2160 (4K) @ 60 Hz
NVIDIA Quadro	Discrete	NA	GDDR5	4 GB	mDP/HDMI/Type-C	Maximum digital:
T1000						 Single DisplayPort 1.4 - 7680 x 4320 (8k) @ 30 Hz (mDP/Type-C to DisplayPort) Dual DisplayPort 1.4 - 7680 x 4320 (8k) @ 60 Hz (mDP/Type-C C to DisplayPort) HDMI 2.0, 4096 x 2160 (4K) @ 60 Hz
NVIDIA Quadro	Discrete	NA	GDDR5	4 GB	mDP/HDMI/Type-C	Maximum digital:
T2000						 Single DisplayPort 1.4 - 7680 x 4320 (8k) @ 30 Hz (mDP/Type-C to DisplayPort) Dual DisplayPort 1.4 - 7680 x 4320 (8k) @ 60 Hz (mDP/Type-C C to DisplayPort) HDMI 2.0, 4096 x 2160 (4K) @ 60 Hz
NVIDIA Quadro	Discrete	NA	GDDR6	6 GB	mDP/HDMI/Type-C	Maximum digital:
RTX3000						 Single DisplayPort 1.4 - 7680 x 4320 (8k) @ 30 Hz

Controller	Туре	CPU Dependency	Graphics memory type	Capacity	External display support	Maximum resolution
						 (mDP/Type-C to DisplayPort) Dual DisplayPort 1.4 - 7680 x 4320 (8k) @ 60 Hz (mDP/Type-C C to DisplayPort) HDMI 2.0, 4096 x 2160 (4K) @ 60 Hz
NVIDIA Quadro RTX4000	Discrete	NA	GDDR6	8 GB	mDP/HDMI/Type-C	 Maximum digital: Single DisplayPort 1.4 - 7680 x 4320 (8k) @ 30 Hz (mDP/Type-C to DisplayPort) Dual DisplayPort 1.4 - 7680 x 4320 (8k) @ 60 Hz (mDP/Type- C to DisplayPort) HDMI 2.0b, 4096 x 2160 (4K) @ 60 Hz
NVIDIA Quadro RTX5000	Discrete	NA	GDDR6	16 GB	mDP/HDMI/Type-C	 Maximum digital: Single DisplayPort 1.4 - 7680 x 4320 (8k) @ 30 Hz (mDP/Type-C to DisplayPort) Dual DisplayPort 1.4 - 7680 x 4320 (8k) @ 60 Hz (mDP/Type- C to DisplayPort) HDMI 2.0b, 4096 x 2160 (4K) @ 60 Hz

Camera

Table 11. Camera specifications

Features	Specifications
Resolution	Camera:
	Still image: 0.92 megapixelsVideo: 1280x720 at 30 fps
	Infrared camera (optional on FHD non-touch):

Features	Specifications	
	Still image: 0.30 megapixelsVideo: 340x340 at 60 fps	
Diagonal viewing angle	Camera - 86.7 degreesInfrared camera - 70 degrees	

Communications

Table 12. Communications

Features	Specifications
Network adapter	Integrated Intel i219LM10/100/1000 Mb/s Ethernet (RJ-45) with Intel Remote Wake UP and PXE
Wireless	Wi-Fi 802.11n/ac via M.2Bluetooth

Ports and connectors

Table 13. Ports and connectors

Features	Specifications
Memory card reader	SD 4.0 memory card reader
Smart card reader	Standard
USB	Two USB 3.1 Gen 1 ports
Security	Noble wedge lock slot
Docking port	Cable dock support
Audio	Headset portNoise reduction array microphones
Video	Mini DisplayPort 1.4HDMI 2.0
Network adapter	One RJ-45 connector
Thunderbolt	Two thunderbolt 3 Type-C ports

Contactless smart card

Table 14. Contactless smartcard

Title	Description	Dell ControlVault 3 Contactless Smartcard reader with NFC
Felica Card Support	Reader and software capable of supporting Felica contactless cards	Yes
Prox (Proximity) (125kHz) Card support	Reader and software capable of supporting Prox/Proximity/125kHz contactless cards	No
ISO 14443 Type A Card Support	Reader and software capable of supporting ISO 14443 Type A contactless cards	Yes

Title	Description	Dell ControlVault 3 Contactless Smartcard reader with NFC
ISO 14443 Type B Card Support	Reader and software capable of supporting ISO 14443 Type B contactless cards	Yes
ISO/IEC 21481	Reader and software capable of supporting ISO/IEC 21481 compliant contactless cards and tokens	Yes
ISO/IEC 18092	Reader and software capable of supporting ISO/IEC 21481 compliant contactless cards and tokens	Yes
ISO 15693 Card Support	Reader and software capable of supporting ISO15693 contactless cards	Yes
NFC Tag Support	Supports reading and processing of NFC compliant tag information	Yes
NFC Reader Mode	Support for NFC Forum Defined Reader mode	Yes
NFC Writer Mode	Support for NFC Forum Defined Writer mode	Yes
NFC Peer-to-Peer Mode	Support for NFC Forum Defined Peer to Peer mode	Yes
EMVCo Compliant	Compliant with EMVCO smartcard standards as posted to www.emvco.com	Yes
EMVCo Certified	Formally certified based on EMVCO smartcard standards	Yes
NFC Proximity OS Interface	Enumerates NFP (Near Field Proximity) device for OS to utilize	Yes
PC/SC OS interface	Personal Computer/Smart Card specification for integration of hardware readers into personal computer environments	Yes
CCID driver compliance	Common driver support for Integrated Circuit Card Interface Device for OS level drivers	Yes
Windows Certified	Device certified by Microsoft WHCK	Yes
Dell ControlVault support	Device connects to Dell ControlVault for usage and processing	Yes

(i) NOTE: 125 Khz proximity cards are not supported.

Table 15. Supported cards

Manufacturer	Card	Supported
HID	jCOP readertest3 A card (14443a)	Yes
	1430 1L	
	DESFire D8H	
	iClass (Legacy)	
	iClass SEOS	
NXP/Mifare	Mifare DESFire 8K White PVC Cards	Yes
	Mifare Classic 1K White PVC Cards	
	NXP Mifare Classic S50 ISO Card	
G&D	idOnDemand - SCE3.2 144K	Yes

Manufacturer	Card	Supported	
	SCE6.0 FIPS 80K Dual+ 1 K Mifare		
	SCE6.0 nonFIPS 80K Dual+1K Mifar	e	
	SCE6.0 FIPS 144K Dual + 1K Mifare		
	SCE6.0 nonFIPS 144K Dual + 1 K Mifa	re	
	SCE7.0 FIPS 144K		
Oberthur	idOnDemand - OCS5.2 80K	Yes	
	ID-One Cosmo 64 RSA D V5.4 T=0 ca	ard	

Display

Table 16. Display specifications

Features	Specifications
Туре	 15.6 in. FHD WVA, 1920x1080 AG, NT, 45% color NTSC gamut 15.6 in. FHD WVA, 1920x1080 AG, NT, 72% color NTSC gamut 15.6 in. FHD WVA, 1920x1080 TL, Touch, 72% NTSC color gamut 15.6 in. UHD WVA, 3840x2160 AG, NT, 100% Adobe color gamut
Luminance/Brightness (typical)	 220 nits (FHD 45% color gamut) 300 nits (FHD 72% color gamut) 500 nits (UHD Adobe 100% color gamut)
Height (Active area)	 FHD - 193.59 mm (7.62 in.) UHD - 194.40 mm (7.65 in.)
Width (Active area)	 FHD - 344.16 mm (13.55 in.) UHD - 345.60 mm (13.61 in.)
Diagonal	 FHD - 394.87 mm (15.60 in.) UHD - 396.52 mm (15.60 in.)
Megapixels	 FHD - 2.07 UHD - 8.29
Pixels Per Inch (PPI)	 FHD - 141 UHD - 282
Contrast ratio	 FHD - 700:1 UHD - 1200:1
Refresh rate	60 Hz
Horizontal viewing angle (min)	80/80 degrees
Vertical viewing angle (min)	80/80 degrees
Pixel pitch	 FHD - 0.179 mm UHD - 0.090 mm
Power consumption (max)	 4.2 W (FHD 45% color gamut) 6.2 W (FHD 72% color gamut) 10 W (UHD Adobe 100% colour gamut)

Keyboard

Table 17. Keyboard specifications

Features	Specifications
Number of keys	 103 (U.S. and Canada) 104 (Europe) 106 (Brazil) 107 (Japan)
Size	 Full sized X= 19.00 mm key pitch Y= 19.00 mm key pitch
Backlit keyboard	Optional
Layout	QWERTY/AZERTY/Kanji

Touchpad

Table 18. Touchpad specifications

Features	Specifications
Resolution	Horizontal: 1048Vertical: 984
Dimensions	 Width: 3.92 inches (99.50 mm) Height: 2.09 inches (53 mm)
Multi-touch	Configurable single finger and multi-finger gestures

Battery

Table 19. Battery

Features	Specifications
Туре	 64 WHr Lithium ion Polymer 4 cell battery with ExpressCharge 97 WHr Lithium ion Polymer 6 cell battery with ExpressCharge 97 WHr Lithium ion Polymer 6 cell battery with three year warranty
Dimension	1. 64 WHr "smart" lithium-ion
	 Length - 222.40 mm (8.76 in) Width - 73.80 mm (2.90 in) Height - 11.15 mm (0.44 in) Weight - 298.00 g 97 WHr "smart" lithium-ion
	 Length - 332.00 mm (13.07 in) Width - 73.80 mm (2.90 in) Height - 11.15 mm (0.439 in) Weight - 445.00 g
Weight (maximum)	 64 WHr - 2.98 kg (0.66 lb) 97 WHr - 4.45 kg (0.98 lb)

Features	Specifications
Voltage	 64 WHr - 7.8 VDC 97 WHr - 11.4 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 20. Power adapter specifications

Features	Specifications
Туре	180 W adapter
Input Voltage	100 to 240 VAC
Input current (maximum)	180 W - 2.34 A
Input frequency	50 Hz to 60 Hz
Output current	180 W - 9.23 A (continuous)
Rated output voltage	19.5 VDC
Temperature range (Operating)	0° to 40° C (32° to 104° F)
Temperature range (Non-Operating)	40° to 70° C (-40° to 158° F)

Dimensions and weight

Table 21. Dimensions and weight

Features	Specifications
Height	Front height (Touch) - 1.02 inches (25.9 mm)
	Rear height (Touch) - 1.21 inches (30.85 mm)
	Front height (Non-touch) - 0.98 inches (25.0 mm)
	Rear height (Non-touch) - 1.18 inches (29.97 mm)
	Front height (Al Cover) - 0.94 inches (24.0 mm)
	Rear height (Al Cover) - 1.19 inches (30.4 mm)
Width	14.87 inches (377.60 mm)
Depth	9.89 inches (251.30 mm)
Weight	Starting 5.57 lbs (2.52 kg)

Operating system

Table 22. Operating system

Features	Specifications
Operating systems supported	Windows 10 Home (64 bit)Windows 10 Professional (64 bit)
	Windows 10 Pro for Workstations (64 bit)
	 Ubuntu 18.04 LTS (64bit)
	 Red Hat Linux Enterprise 8.0

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)	20% to 80% (non-condensing) () NOTE: Maximum dew point temperature = 26°C	20% to 95% (non-condensing) () 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.

† 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.

Support policy

For more information on support policy, see the knowledge base articles PNP13290, PNP18925, and PNP18955.

System setup

System setup enables you to manage your hardware and specify BIOS level options. From the System setup, you can:

- · Change the NVRAM settings after you add or remove hardware
- View the system hardware configuration
- Enable or disable integrated devices
- · Set performance and power management thresholds
- Manage your computer security

Topics:

- System setup
- Boot menu
- Navigation keys
- Boot Sequence
- System setup options
- Updating the BIOS in Windows
- System and setup password

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 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.
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 enables 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

(i) NOTE: XXXX denotes the SATA drive number.

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

(i) NOTE: Choosing Diagnostics, displays the ePSA diagnostics screen.

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

System setup options

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

General options

Table 24. General

Option	Description
System Information	This section lists the primary hardware features of your computer.
	The options are:
	 System Information Memory Configuration Processor Information Device Information
Battery Information	Displays the battery status and the type of AC adapter connected to the computer.

Option	Description
Boot Sequence	Allows you to change the order in which the computer attempts to find an operating system.
	The options are:
	 Windows Boot Manager Boot List Option-UEFI is the enabled by default.
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
Date/Time	Allows you to set the date and time. The change to the system date and time takes effect immediately.
System configuration	
Table 25. System Configuration	

Option	Description
Integrated NIC	Allows you to configure the integrated network controller.
	Click one of the following options:
	 Disabled Enabled Enabled w/PXE—Default
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 On—Default
	IDAMPE: SATA is configured to support RAID mode.
Drives	Allows you to enable or disable various drives on board.
	The options are:
	· SATA-1
	 SATA-4 M.2 PCIe SSD-0 M.2 PCIe SSD-1
	All the options are set by default.
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.
	Enable SMART Reporting
USB Configuration	Allows you to enable or disable the internal/integrated USB configuration.

Option	Description
	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.
Dell Type-C Dock Configuration	Always allow Dell docks. This setting affects only the Type-C ports connected to a Dell WD or TB dock.
Thunderbolt Adapter Configuration	Allows you to configure the Thunderbolt adapter security settings within the operating system.
	The options are:
	 Enable Thunderbolt Technology Support—Default Enable Thunderbolt Adapter Boot Support Enable Thunderbolt Adapter Pre-boot Modules
	Choose any one option:
	 Security level - No Security Security level - User Authorization—Default Security level - Secure Connect Security level - Display Port Only
Fhunderbolt Auto Switch	Allows auto switch the thunderbolt option.
USB PowerShare	This field configures the USB PowerShare feature behavior. This option allows you to charge external devices using the stored system battery power through the USB PowerShare port (disabled by default).
	Enable USB PowerShare
Audio	Allows you to enable or disable the integrated audio controller. By default, the Enable Audio option is selected.
	The options are:
	 Enable Microphone Enable Internal Speaker
	This option is set by default.
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 to define the timeout value for the keyboard backlight when an AC adapter is plugged in the system. The Keyboard Backlight tiemout value is only in effect when the backlight is enabled.
	 5 seconds 10 seconds—Default 15 seconds 30 seconds 1 minute

Option	Description
	 5 minutes 15 minutes Never
Keyboard Backlight Tmeout on Battery	Allows to define the timeout value for the keyboard backlight when the system is running only on battery power. The Keyboard Backlight tiemout 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
Touchscreen	This field controls whether the touchscreen is enabled or disabled.
Unobtrusive Mode	Allows you to turn off all light and sound emissions in the system when you press Fn+F7. This option is disabled 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 (SD) Card Boot Secure Digital Card (SD) Read-Only Mode
MAC Address Pass-Through	This feature replaces the external NIC MAC address (in a supported dock or dongle) with the selected MAC address from the system. The default option is to use the Passthrough MAC Address.
	When the Integrated NIC option is selected, we recommend one of the following:
	 Disable the integrated NIC in the BIOS to prevent any issues from multiple NICs on the network with identical MAC addresses. If the Integrated NIC cannot be disabled, do not connect it to the same network as your dock or USB Ethernet dongle.

Video screen options

Table 26. 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).
Switchable Graphics	This option enables or disables switchable graphics technologies such as NVIDIA Optimus and SMD PowerExpress.
	It should only be enabled for Windows 7 and later versions of Windows or the Ubuntu OS. This feature is not applicable to other operating systems.

Security

Table 27. Security

Option	Description
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:
	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.
	() 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.
Strong Password	Allows you to enforce the option to always set strong password.
	Enable Strong Password
	This option is not set by default.
Password Configuration	You can define the length of your password. Min = 4, Max = 32
Password Bypass	Allows you to bypass the System password and the Internal HDD password, when it is set, during a system restart.
	Click one of the options:
	· Disabled—Default
	· Reboot bypass
Password Change	Allows you to change the System password when the administrator password is set.
	Allow Non-Admin Password Changes
	This option is set 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.
JEFI Capsule Firmware	Allows you to update the system BIOS via UEFI capsule update packages.
Jpdates	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.
-	

Option	Description
	· 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
Absolute (R)	Allows you to activate or disable the optional Computrace software.
	The options are:
	· Deactivate
	· Disable
	Activate—Default
OROM keyboard Access	Allows you to enable or disable Option ROM configuration screens via hotkeys during boot.
	· Enable—Default
	· Disable
	· One Time Enable
Admin Setup Lockout	Allows you to prevent users from entering Setup when an administrator password is set.
	· Enable Admin Setup Lockout
	This option is not set by default.
Master Password Lockout	Allows you to disable master password support.
	Enable Master Password Lockout
	This option is not set by default.
	I NOTE: Hard Disk password should be cleared before the settings can be changed.
SMM Security Mitigation	Allows you to enable or disable additional UEFI SMM Security Mitigation protection.
	· SMM Security Mitigation
	This option is not set by default.

Secure boot

Table 28. Secure Boot

Option	Description
Secure Boot Enable	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	Allows you to enable or disable Expert Key Management.
	Enable Custom Mode

Description

This option is not set by default.

The Custom Mode Key Management options are:

- · **PK**—Default
- · KEK
- · db
- · dbx

Intel Software Guard Extensions options

Table 29. Intel Software Guard Extensions

Option	Description
Intel SGX Enable	This field specifies you to provide a secured environment for running code/storing sensitive information in the context of the main operating systems.
	Click one of the following options:
	 Disabled Enabled Software controlled—Default
Enclave Memory Size	This option sets SGX Enclave Reserve Memory Size
	Click one of the following options:
	 32 MB 64 MB 128 MB—Default

Performance

Table 30. Performance

Option	Description
Multi Core Support	This field specifies whether the process has one or all cores enabled. The performance of some applications improves with the additional cores.
	· All—Default
	· 1
	· 2
	. 3
Intel SpeedStep	Allows you to enable or disable the Intel SpeedStep mode of processor.
	 Enable Intel SpeedStep
	This option is set by default.
C-States Control	Allows you to enable or disable the additional processor sleep states.
	· C states
	This option is set by default.
Intel TurboBoost	Allows you to enable or disable the Intel TurboBoost mode of the processor.

Option	Description
	Enable Intel TurboBoost
	This option is set by default.
Hyper-Thread Control	Allows you to enable or disable the HyperThreading in the processor.
	 Disabled Enabled—Default

Power management

Table 31. Power Management

Option	Description
AC Behavior	Allows you to enable or disable the computer from turning on automatically when an AC adapter is connected.
	• Wake on AC
	This option is not set by default.
Enable Intel Speed Shift Technology	Allows you to enable or disable the Intel Speed Shift Technology.
	• Enabled—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.
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.
Wireless Radio Control	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 ne enabled.
	· Control WLAN radio
	· Control WWAN radio
	This option is not set by default.
Wake on LAN	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.
	 WLAN Only - Allows the system to be powered on by special WLAN signals.
	LAN or WLAN - Allows the system to be powered on by special LAN or WLAN signals.
Block Sleep	Allows you to block entering to sleep in OS environment.

Option	Description
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 non-work hours to improve the battery health.
Primary Battery Charge Configuration	Allows you to select the charging mode for the battery.
Comgulation	The options are:
	· Adaptive—Default
	 Standard - Fully charges your battery at a standard rate.
	 ExpressCharge- The battery charges over a shorter period of time 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.

Post behavior

Table 32. POST Behavior

Option	Description
Adapter Warnings	Allows you to enable or disable the system setup (BIOS) warning messages when you use certain power adapters.
	Enable Adapter Warnings—Default
Numlock Enable	Allows you to enable or disable the Numlock function when the system boots.
	Enable Numlock—Default
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
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
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
Full Screen Logo	Allows you to display full screen logo, if your image matches screen resolution.
	· Enable Full Screen Logo
	This option is not set by default.

Option	Description
Sign of Life Indication	Allows the system to indicate during POST that the power button press has been acknowledged by turning on the keyboard backlight.
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

Virtualization support

Table 33. 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.

Wireless options

Table 34. Wireless

Option	Description
Wireless Switch	Allows to set the wireless devices that can be controlled by the wireless switch.
	The options are:
	 WWAN GPS (on WWAN Module) 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:
	· WWAN/GPS · WLAN

· Bluetooth

All the options are enabled by default.

Maintenance

Table 35. Maintenance

Option	Description			
Service Tag	Displays the service tag of your computer.			
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.			
BIOS Downgrade	Allows you to flash previous revisions of the system firmware.			
	Allow BIOS Downgrade			
	This option is set by default.			
Data Wipe	Allows you to securely erase data from all internal storage devices.			
	· Wipe on Next Boot			
	This option is not set by default.			
Bios Recovery	BIOS Recovery from Hard Drive —This option is set by default. Allows you to recover the corrupted BIOS from a recovery file on the HDD or an external USB drive.			
	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.			

System logs

Table 36. System Logs

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

Updating the BIOS in Windows

It is recommended to update your BIOS (System Setup), when you replace the system board or if an update is available.

(i) 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.

- 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.

(i) 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**.
- 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.
- 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 reinstall. For more information about this subject, see Knowledge Article: https://www.dell.com/support/article/sln153694

Updating your system BIOS using a USB flash drive

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.

(i) 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/sln143196/

- **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 Enter.
- 6. The system will boot to a Diag C:\> prompt.
- 7. Run the file by typing the full filename, for example, O9010A12.exe and press Enter.
- 8. The BIOS Update Utility will load. Follow the instructions on screen.



Figure 1. DOS BIOS Update Screen

Updating the Dell BIOS in Linux and Ubuntu environments

If you want to update the system BIOS in a Linux environment, such as Ubuntu, see https://www.dell.com/support/article/sln171755/.

Flashing the BIOS from the F12 One-Time boot menu

Updating your system BIOS using a BIOS update .exe file copied to a FAT32 USB key and booting from the F12 one time boot menu.

BIOS Update

You can run the BIOS update file from Windows using a bootable USB key or you can also update the BIOS from the F12 One-Time boot menu on the system.

Most Dell systems built after 2012 have this capability and you can confirm by booting your system to the F12 One-Time Boot Menu to see if BIOS FLASH UPDATE is listed as a boot option for your system. If the option is listed, then the BIOS supports this BIOS update option.

(i) NOTE: Only systems with BIOS Flash Update option in the F12 One-Time Boot Menu can use this function.

Updating from the One-Time Boot Menu

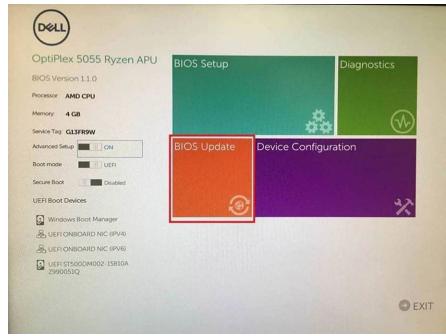
To update your BIOS from the F12 One-Time boot menu, you will need:

- USB key formatted to the FAT32 file system (key does not have to be bootable)
- · BIOS executable file that you downloaded from the Dell Support website and copied to the root of the USB key
- · AC power adapter connected to the system
- Functional system battery to flash the BIOS

Perform the following steps to execute the BIOS update flash process from the F12 menu:

CAUTION: Do not power off the system during the BIOS update process. Powering off the system could make the system fail to boot.

- 1. From a power off state, insert the USB key where you copied the flash into a USB port of the system .
- 2. Power on the system and press the F12 key to access the One-Time Boot Menu, Highlight BIOS Update using the mouse or arrow keys then press **Enter**.



3. The Bios flash menu will open then click the Flash from file.

Flash BIOS	;	? 🗙
System BIOS Information		
System:	OptiPlex 5055 Ryzen APU	
Revision:	110	
Vendor:	Del	
Flash from file		
BIOS update file:	«None selected»	
System:	<none selected=""></none>	
Revision:	«None selected»	
Vendor:	<none selected=""></none>	
Options:		
Cancel Update		

4. Select external USB device

NTFS, [PciRoot(0x0)/Pci(0x1,0x2)/Pci(0x0,0x1)/Sata(0x0,0x0,0x0)/HD(1,0 T,E647EB30-0252-4256-800F-26D665F61218,0x800,0xF9800)]
NO VOLUME LABEL. [PciRoot(0x0)/Pci(0x1,0x2)/Pci(0x0,0x1)/Sata(0x0,0x0,0x0)/HD[2,0 T,68AD4809-79EA-4733-A5F5-DA6F77061151,0xFA000,0x32000
NTFS. [PciRoox(0x0)/Pci(0x1,0x2)/Pci(0x0,0x1)/Sata(0x0,0x0,0x0)/HD(4) T.97D56558-C16A-40CC-9498-0F3E222CE2E5.0x134000,0x3A 1800)]
ADATA UFD. [PciRoot(0x0)/Pci(0x1 0x2)/Pci(0x0,0x0)/USB(0x8,0x0)/HDI1.MBR x04DD5721.0x3F,0x3FB7C1)]
Load File IPeiRoot(0x0)/Pei(0x1 0x2)/Pei(0x0 0x2)/Pei(0x0 0x0)/Pei(0x0 0x0

 ${\bf 5.}~$ Once the file is selected, Double click the flash target file, then press submit .

File Explore	•	
KonaRV_110.exe		
KonaRV_12GB_a	vailable_memory.jpg	0000
KonaRV_8GB_av	ailable_memory.jpg	
RU32.efi		
RU.efi		
DASH Auto Run_	RR_M.7z	
7z920-x64.7z		
DellSbPei.c		
KonaRV_110.ex	e	
KonaRV_1.1.0.ex	e	

6. Click the Update BIOS then system will reboot to flash the BIOS.

Flash BIOS			?	×
System BIOS Information				
System:	OptiPiex 5055 Ryzen APU			
Revision:	110			
Vendor:	Dell			
Flash from file				
BIOS update file:	\KonaRV_110.exe	116.1		18.8
System:	OptiPlex 5055 Ryzen APU			
Revision:	110			
Vendor:	Dell Inc.			
Options:				
Update BKOS!				
Cancel Update				

7. Once complete, the system will reboot and the BIOS update process is completed.

System and setup password

Table 37. 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.

(i) NOTE: System and setup password feature is disabled.

Assigning a system setup password

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

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

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

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

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

- 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 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 restarts.



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

- Operating system
- Downloading drivers
- Identifying Windows 10 OS version

Operating system

Table 38. Operating system

Features	Specifications	
Operating systems supported	• Windows 10 Home (64 bit)	
	 Windows 10 Professional (64 bit) 	
	 Windows 10 Pro for Workstations (64 bit) 	
	Ubuntu 18.04 LTS (64bit)	
	 Red Hat Linux Enterprise 8.0 	

Downloading drivers

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

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

- 4. Click Drivers and Downloads.
- 5. Select the operating system installed on your .
- 6. Scroll down the page and select the driver to install.
- 7. Click Download File to download the driver for your .
- 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.

Identifying Windows 10 OS version

Run dialog box with the Windows Key + R keyboard shortcut. Once that box shows up, enter winver (it stands for Windows version).

Table 39. Identifying Windows 10 OS version

OS Version	Code name	Version	Latest build
Windows 10	Threshold 1	1507	10240
Windows 10	Threshold 2	1511	10586
Windows 10	Redstone 1	1607	14393
Windows 10	Redstone 2	1703	15063
Windows 10	Redstone 3	1709	16299
Windows 10	Redstone 4	1803	17134

OS Version	Code name	Version	Latest build
Windows 10	Redstone 5	1809	17763
Windows 10	19H1	1903	18362

Getting help

6

Topics:

Contacting Dell

Contacting Dell

() 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.

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:

- 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.