# **OptiPlex 3080 Micro**

Setup and Specifications



### 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.

MARNING: A WARNING indicates a potential for property damage, personal injury, or death.

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# **Contents**

Chapter 1: Set up your computer	5
Chapter 2: Chassis overview	10
Front view	
Back view	
System board Layout	12
Chapter 3: Technical specifications	13
Dimensions and weight	13
Chipset	13
Processors	14
Operating system	15
Memory	15
Ports and connectors	16
Communications	17
Graphics and Video controller	18
Audio and Speaker	18
Storage	18
Power adapter	19
Data security	19
Environmental	20
Energy Star, EPEAT and Trusted Platform Module (TPM)	20
Computer environment	20
Service and support	21
Chapter 4: Software	23
Downloading Windows drivers	23
Chapter 5: System setup	24
Boot menu	24
Navigation keys	24
Boot Sequence	25
System setup options	25
General options	25
System information	25
Video screen options	26
Security	27
Secure boot options	28
Intel Software Guard Extensions options	28
Performance	
Power management	29
Post behavior	
Virtualization support	31
Wireless options	31

Maintenance	3′
System logs	32
Advanced configuration	32
SupportAssist System Resolution	32
Updating the BIOS in Windows	33
Updating BIOS on systems with BitLocker enabled	33
Updating your system BIOS using a USB flash drive	
System and setup password	32
Assigning a system setup password	
Deleting or changing an existing system setup password	35
Chapter 6: Getting help	36
Contacting Dell	

# Set up your computer

### Steps

1. Connect the keyboard and mouse.



2. Connect to your network using a cable, or connect to a wireless network.



### 3. Connect the display.



**4.** Connect the power cable.



**5.** Press the power button.



6. 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.
- 7. Locate and use Dell apps from the Windows Start menu—Recommended.

#### Table 1. Locate Dell apps

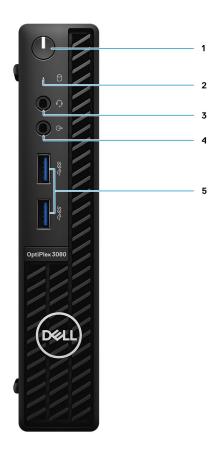
Dell apps	Details
	Dell Product Registration
	Register your computer with Dell.
	Dell Help & Support
	Access help and support for your computer.

Table 1. Locate Dell apps

Dell apps	Details
	SupportAssist
	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.
<b>L</b>	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.

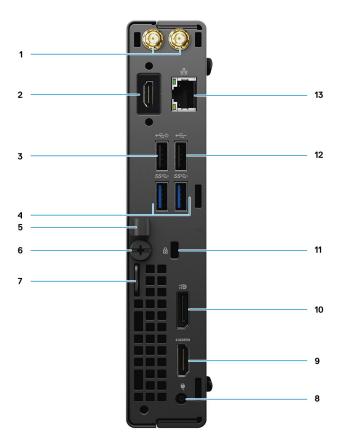
# **Chassis overview**

### **Front view**



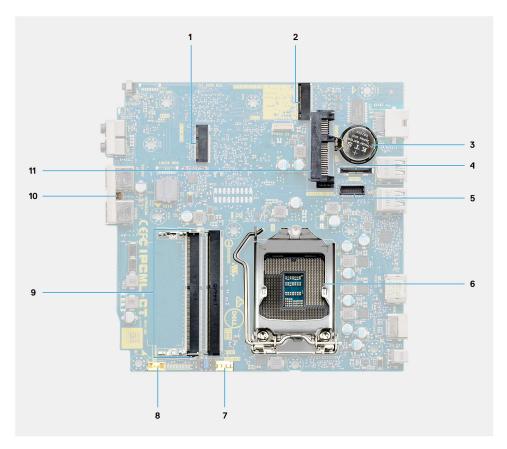
- 1. Power button with diagnostic LED
- 2. Hard-disk drive activity light
- 3. Universal audio jack port
- **4.** Line-out port (retaskable Line-in)
- **5.** USB 3.2 Gen 1 Type-A ports (2)

### **Back view**



- 1. External antenna connectors
- 2. Serial/Video Port (Serial/PS2/DP 1.4/HDMI 2.0b/VGA) (optional)
- 3. USB 2.0 port with Smart Power on
- **4.** USB 3.2 Gen 1 Type-A ports (2)
- 5. Cable holder
- 6. Thumbscrew
- 7. Padlock loop
- 8. Power connector port
- 9. HDMI 1.4 port
- 10. DisplayPort 1.4
- 11. Kensington security-cable slot
- **12.** USB 2.0 port
- **13.** RJ-45 port 10/100/1000 Mbps

# **System board Layout**



- 1. M.2 WLAN connector
- 2. M.2 SSD PCle connector
- 3. Coin-cell battery
- **4.** Optional video connector (VGA Port/DisplayPort 1.4 Port/HDMI 2.0b Port)
- **5.** Optional Keyboard and mouse serial port connector
- 6. Processor socket
- 7. CPU Fan connector
- 8. Internal speaker connector
- 9. Memory slots
- 10. Intrusion switch
- 11. HDD connector

# **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.

# **Dimensions and weight**

Table 2. Dimensions and weight

Description	Values
Height:	
Front	182.00 mm (7.16 in.)
Rear	182.00 mm (7.16 in.)
Width	36.00 mm (1.42 in.)
Depth	178.56 mm (7.03 in.)
Weight (minimum)	1.16 kg (2.55 lb)
Weight (maximum)	1.28 kg (2.82 lb)  i NOTE: The weight of your computer depends on the configuration ordered and the manufacturing variability.

# Chipset

#### Table 3. Chipset

Description	Values
Chipset	Intel B460
Processor	10 <sup>th</sup> Generation Intel Core i3/i5/Pentium/Celeron
DRAM bus width	64-bit (for single channel)
Flash EPROM	32 MB
PCle bus	Up to Gen 3.0
Non-volatile memory	Yes
BIOS Configuration Serial Peripheral Interface (SPI)	256 Mbit (32 MB) located at SPI_FLASH on chipset
Trusted Platform Module (Discrete TPM Enabled)	24 KB located at TPM 2.0 on chipset
Firmware TPM (Discrete TPM Disabled)	By default the Platform Trust Technology feature is visible to the OS
NIC EEPROM	LOM configuration contained within LOM e-fuse

### **Processors**

NOTE: Global Standard Products (GSP) are a subset of Dell's relationship products that are managed for availability and synchronized transitions on a worldwide basis. They ensure that the same platform is available for purchase globally. This allows customers to reduce the number of configurations managed on a worldwide basis, thereby reducing their costs. They also enable companies to implement global IT standards by locking in specific product configurations worldwide.

Device Guard (DG) and Credential Guard (CG) are the new security features that are only available on Windows 10 Enterprise today.

Device Guard is a combination of enterprise-related hardware and software security features that, when configured together, will lock a device down so that it can only run trusted applications. If it is not a trusted application, it cannot run.

Credential Guard uses virtualization-based security to isolate secrets (credentials) so that only privileged system software can access them. Unauthorized access to these secrets can lead to credential theft attacks. Credential Guard prevents these attacks by protecting NTLM password hashes and Kerberos Ticket Granting Tickets.

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

**Table 4. Processors** 

Processors	Wattage	Core count	Thre ad cou nt	Speed	Cache	Integrated graphics	GSP	DG/CG Ready
Intel Celeron G5900T	35 W	2	2	3.2 GHz	2 MB	Intel UHD Graphics 610	No	Yes
Intel Celeron G5905T	35 W	2	2	3.3 GHz	4 MB	Intel UHD Graphics 610	No	Yes
Intel Pentium Gold G6400T	35 W	2	4	3.4 GHz	4 MB	Intel UHD Graphics 610	No	Yes
Intel Pentium Gold G6405T	35 W	2	4	3.5 GHz	4 MB	Intel UHD Graphics 610	No	Yes
Intel Pentium Gold G6500T	35 W	2	4	3.5 GHz	4 MB	Intel UHD Graphics 630	No	Yes
Intel Pentium Gold G6505T	35 W	2	4	3.6 GHz	4 MB	Intel UHD Graphics 630	No	Yes
10 <sup>th</sup> Generation Intel Core i3-10100T	35 W	4	8	3.0 GHz to 3.8 GHz	6 MB	Intel UHD Graphics 630	No	Yes
10 <sup>th</sup> Generation Intel Core i3-10105T	35 W	4	8	3.0 GHz to 3.9 GHz	6 MB	Intel UHD Graphics 630	No	Yes
10 <sup>th</sup> Generation Intel Core i3-10300T	35 W	4	8	3.0 GHz to 3.9 GHz	8 MB	Intel UHD Graphics 630	No	Yes
10 <sup>th</sup> Generation Intel Core i3-10305T	35 W	4	8	3.0 GHz to 4.0 GHz	8 MB	Intel UHD Graphics 630	No	Yes

**Table 4. Processors** 

Processors	Wattage	Core count	Thre ad cou nt	Speed	Cache	Integrated graphics	GSP	DG/CG Ready
10 <sup>th</sup> Generation Intel Core i5-10400T	35 W	6	12	2.0 GHz to 3.6 GHz	12 MB	Intel UHD Graphics 630	No	Yes
10 <sup>th</sup> Generation Intel Core i5-10500T	35 W	6	12	2.3 GHz to 3.8 GHz	12 MB	Intel UHD Graphics 630	Yes	Yes
10 <sup>th</sup> Generation Intel Core i5-10600T	35 W	6	12	2.4 GHz to 4.0 GHz	12 MB	Intel UHD Graphics 630	Yes	Yes
10 <sup>th</sup> Generation Intel Core i7-10700T	35 W	8	16	2.0 GHz to 4.5 GHz	16 MB	Intel UHD Graphics 630	Yes	Yes

i NOTE: 10th Generation Intel Core i7-10700T does not perform at maximum capacity on OptiPlex 3080 Micro

### **Operating system**

- Windows 10 Home (64-bit)
- Windows 10 Professional (64-bit)
- Windows 10 Pro Education (64-bit)
- Windows 10 Home Plus
- Windows 10 Home Advanced
- Windows 10 IoT Enterprise 2019 LTSC (OEM only)
- Ubuntu 18.04 (64-bit)
- NeoKylin 7.0 (China only)

Commercial Platform Windows 10 N-2 and 5-year operating system supportability

All newly introduced commercial platforms (Latitude, OptiPlex, and Precision) will qualify and ship with the most current factory installed Semi-Annual Channel Windows 10 version (N) and qualify (but not ship) the previous two versions (N-1, N-2). This device platform will RTS with Windows 10 version v19H2 at the time of launch, and this version will determine the N-2 versions that are initially qualified for this platform.

For future versions of Windows 10, Dell continues to test the commercial platform with coming Windows 10 releases during device production and for five years post-production, including both fall and spring releases from Microsoft.

Please reference the Dell Windows as a Service (WaaS) website for additional information about N-2 and 5-year Windows operating system supportability. Website can be found at this link:

Platforms Qualified on specific versions of Windows 10

This website also includes a matrix of other platforms that are qualified on specific versions of Windows 10.

### **Memory**

NOTE: A multiple-DIMM memory option is recommended to prevent any performance reduction. If the system configuration includes integrated graphics, consider selecting 2 or more DIMMs.

NOTE: Memory modules should be installed in pairs of matched memory size, speed, and technology. If the memory modules are not installed in matched pairs, the computer continues to operate, but with a slight reduction in performance. The entire memory range is available to 64-bit operating systems.

Table 5. Memory specifications

Description	Values
Slots	Two SODIMM
Туре	DDR4
Speed	2666 MHz for Celeron/Pentium/i3/i5     NOTE: Intel Celeron/Pentium/i3/i5 processor supports 3200 MHz speed but due to limitations the speed is 2666 MHz     2933 MHz for i7     NOTE: 10 <sup>th</sup> Generation Intel Core i7 processor supports 3200 MHz speed but due to limitations the speed is 2933 MHz
Maximum memory	64 GB
Minimum memory	4 GB
Memory size per slot	4 GB, 8 GB, 16 GB, 32 GB
Configurations supported	<ul> <li>4 GB, 1 x 4 GB</li> <li>8 GB, 2 x 4 GB</li> <li>8 GB, 1 x 8 GB</li> <li>16 GB, 2 x 8 GB</li> <li>16 GB, 1 x 16 GB</li> <li>32 GB, 2 x 16 GB</li> <li>32 GB, 1 x 32 GB</li> <li>64 GB, 2 x 32 GB</li> </ul>

# Ports and connectors

Table 6. Ports and connectors

Description	Values
External:	
Network	One RJ-45 port 10/100/1000 Mbps (rear)
USB	<ul> <li>Two USB 3.2 Gen 1 Type-A ports (front)</li> <li>One USB 2.0 port (rear)</li> <li>One USB 2.0 with Smart Power on (rear)</li> <li>Two USB 3.2 Gen 1 Type-A ports (rear)</li> </ul>
Audio	<ul><li>One Universal Audio Jack (front)</li><li>One Line-out port (retaskable Line-in) (front)</li></ul>
Video	<ul> <li>One HDMI 1.4 port (rear)</li> <li>One DisplayPort 1.4 port (rear)</li> <li>One Serial/Video (Serial/PS2/VGA Port/DisplayPort 1.4 Port/HDMI 2.0 Port (optional))</li> </ul>

Table 6. Ports and connectors

Description	Values
Memory card reader	Not supported
Power port	4.5 mm barrel type
Security	One kensington security-cable slot
Antenna	Two SMA connectors (optional)
Internal:	
SATA	One SATA slots for 2.5-inch Hard-disk drive
M.2	<ul> <li>One M.2 2230 slot for WiFi and Bluetooth card</li> <li>One M.2 slot for 2280 PCle solid-state drive/Optane or 2230 PCle solid-state drive</li> </ul>
	NOTE: To learn more about the features of different types of M.2 cards, see the knowledge base article SLN301626.

# **Communications**

### Ethernet

### Table 7. Ethernet specifications

Description	Values
Model number	REALTEK RTL8111HSD-CG
Transfer rate	10/100/1000 Mbps

### Wireless module

### Table 8. Wireless module specifications

Description	Values		
Model number	Qualcomm QCA61x4A	Intel Wi-Fi 6 AX200	Intel 3165
Transfer rate	Up to 867 Mbps	Up to 2.4 Gbps	Up to 867 Mbps
Frequency bands supported	2.4 GHz/5 GHz	2.4 GHz/5 GHz	2.4 GHz/5 GHz
Wireless standards	802.11ac	• 802.11ax (Wi-Fi 6)	802.11ac
Encryption	<ul><li>64-bit and 128-bit WEP</li><li>128-bit AES-CCMP</li><li>TKIP</li></ul>	<ul><li>64-bit and 128-bit WEP</li><li>128-bit AES-CCMP</li><li>TKIP</li></ul>	<ul><li>64-bit and 128-bit WEP</li><li>128-bit AES-CCMP</li><li>TKIP</li></ul>
Bluetooth	5.0	5.1	4.2

# **Graphics and Video controller**

Table 9. Integrated graphics specifications

Integrated graphics			
Controller	External display support	Memory size	Processor
Intel UHD Graphics 610	<ul><li>One HDMI 1.4 port (rear)</li><li>One DisplayPort 1.4 port (rear)</li></ul>	Shared system memory	Intel Celeron/ Pentium Gold
Intel UHD Graphics 630	<ul><li>One HDMI 1.4 port (rear)</li><li>One DisplayPort 1.4 port (rear)</li></ul>	Shared system memory	10 <sup>th</sup> Generation Intel Core i3/i5

# **Audio and Speaker**

The following table lists the audio specifications of your OptiPlex 3080 Micro.

Table 10. Audio specifications

Description	Values	
Туре	4 Channel High Definition Audio	
Controller	Realtek ALC3246	
Stereo conversion	24-bit DAC (Digital-to-Analog) and ADC (Analog-to-Digital)	
Internal interface	Intel HDA (high-definition audio)	
External interface	<ul><li>One Universal Audio Jack</li><li>One Line-out audio port</li></ul>	
Speakers	One (optional)	
Internal speaker amplifier	Integrated in ALC3246 (Class-D 2 W)	
External volume controls	Keyboard shortcut controls.	
Speaker output average	2 W	
Speaker output peak	2.5 W	
Subwoofer output	Not supported	
Microphone	Not supported	

# **Storage**

Your computer supports one of the following configurations:

- One 2.5-inch hard-disk drive
- One M.2 2230 or 2280 solid-state drive (class 35 or class 40)
- One 2.5-inch hard-disk drive and Intel Optane memory
- One M.2 2230 or 2280 solid-state drive (non-optane) and One 2.5-inch hard-disk drive

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

- with a M.2 solid-state drive, the M.2 solid-state drive is the primary drive
- without a M.2 drive, the 2.5-inch hard-disk drive is the primary drive

Table 11. Storage specifications

Storage type	Interface type	Capacity
2.5-inch, 5400 RPM, hard-disk drive	SATA 3.0	Up to 2 TB
2.5-inch, 7200 RPM, hard-disk drive	SATA 3.0	Up to 1 TB
2.5-inch, 7200 RPM, FIPS Self Encrypting Opal 2.0, hard-disk drive	SATA 3.0	500 GB
M.2 2230 solid-state drive	Gen 3 PCIe x4 NVMe, Class 35	Up to 512 GB
M.2 2280 solid-state drive	Gen 3 PCIe x4 NVMe, Class 40	Up to 2 TB
M.2 2280 Opal Self-Encrypting solid-state drive	Gen 3 PCIe x4 NVMe, Class 40	Up to 1 TB
32 GB with 512 GB solid-state drive	Gen 3 PCle x4, Optane memory	32 GB + 512 GB

# Power adapter

Table 12. Power adapter specifications

Description		Values	
Туре		65 W (4.5 mm barrel type)	
Diameter (conr	nector)	4.5 mm	
Input voltage		100 VAC to 240 VAC	
Input frequency		50 Hz to 60 Hz	
Input current (	maximum)	1.50 A	
Output current (continuous)		3.34 A	
Rated output voltage		19.50 VDC	
Temperature ra	ange:		
Opera	ting	0°C-40°C (32°F-104°F)	
Storag	ge	-40°C-70°C (-40°F-158°F)	

# **Data security**

Table 13. Data security

Data security options	Values
McAfee Small Business Security 30 Day Free Trial	Supported
McAfee Small Business Security 12-month subscription	Supported
McAfee Small Business Security 36-month subscription	Supported
SafeGuard and Response, powered by VMware Carbon Black and Secureworks	Supported
Next Generation anti-virus (NGAV)	Supported

#### Table 13. Data security

Data security options	Values
Endpoint Detection and Response (EDR)	Supported
Threat Detection and Response (TDR)	Supported
Managed Endpoint Detection and Response	Supported
Incident Management Retainer	Supported
Emergency Incident Response	Supported
SafeData	Supported

### **Environmental**

**Table 14. Environmental specifications** 

Feature	OptiPlex 3080 Micro
Recyclable packaging	Yes
BFR/PVC—free chassis	No
MultiPack packaging	Yes (US only) (optional)
Energy-Efficient Power Supply	88%
ENV0424 compliant	Yes

NOTE: Wood-based fiber packaging contains a minimum of 35% recycled content by total weight of wood-based fiber. Packaging that contains without wood-based fiber can be claimed as Not Applicable.

# **Energy Star, EPEAT and Trusted Platform Module** (TPM)

#### Table 15. Energy Star, EPEAT and TPM

Features	Specifications
Energy Star 8.0	Compliant configurations available
EPEAT	Gold and Silver compliant configurations available
Trusted Platform Module (TPM) 2.0 <sup>1,2</sup>	Integrated on system board
Firmware-TPM (Discrete TPM disabled)	Optional

### (i) NOTE:

<sup>1</sup>TPM 2.0 is FIPS 140-2 certified.

<sup>2</sup>TPM is not available in all countries.

### **Computer environment**

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

Table 16. Computer environment

Table 16. Computer environment

Description	Operating	Storage
Temperature range	10°C-35°C (50°F-95°F)	-40°C-65°C (-40°F-149°F)
Relative humidity (maximum)	20% to 80% (non-condensing)	5% to 95% (non-condensing)
Vibration (maximum)*	0.26 GRMS random at 5 Hz to 350 Hz	1.37 GRMS random at 5 Hz to 350 Hz
Shock (maximum)	Bottom half-sine pulse with a change in velocity of 50.8 cm/sec (20 in./sec)	105G half-sine pulse with a change in velocity of 133 cm/sec (52.5 in./sec)
Altitude (maximum)	3048 m (10,000 ft)	10,668 m (35,000 ft)

 $<sup>\</sup>ensuremath{^{*}}$  Measured using a random vibration spectrum that simulates user environment.

# Service and support

NOTE: For more details on Dell Service Plans, see https://www.dell.com/learn/us/en/19/services/warranty-support-services.

### Table 17. Warranty

Warranty
1 Year Basic Warranty with Hardware Service on site service after remote diagnosis
2 Years Basic Warranty Extension
3 Years Basic Warranty Extension
4 Years Basic Warranty Extension
5 Years Basic Warranty Extension
1 Year ProSupport and Next Business Day on-site service
2 Years ProSupport and Next Business Day on-site service
3 Years ProSupport and Next Business Day on-site service
4 Years ProSupport and Next Business Day on-site service
5 Years ProSupport and Next Business Day on-site service
1 Year ProSupport Plus for Client with Next Business Day on-site service
2 Years ProSupport Plus for Client with Next Business Day on-site service
3 Years ProSupport Plus for Client with Next Business Day on-site service
4 Years ProSupport Plus for Client with Next Business Day on-site service
5 Years ProSupport Plus for Client with Next Business Day on-site service

### Table 18. Accidental damage services

Accidental Damage Services
Year Accidental Damage Service
2 Years Accidental Damage Service
3 Years Accidental Damage Service
1 Years Accidental Damage Service

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

### Table 18. Accidental damage services

### **Accidental Damage Services**

5 Years Accidental Damage Service

# **Software**

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

# **Downloading Windows drivers**

#### Steps

- 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  ${\bf Download\ File}$  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.

# 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:
  - o BIOS Setup
  - o BIOS Flash Update
  - o Diagnostics
  - o 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.

Navigation
Moves to the previous field.
Moves to the next field.
Selects a value in the selected field (if applicable) or follow the link in the field.
Expands or collapses a drop-down list, if applicable.
Moves to the next focus area.
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 computer and its installed devices, the items listed in this section may or may not appear.

### **General options**

#### Table 19. General

Option	Description
System Information	<ul> <li>Displays the following information:</li> <li>System Information: Displays BIOS Version, Service Tag, Asset Tag, Ownership Tag, Manufacture Date, Ownership Date, and the Express Service Code.</li> <li>Memory Information: Displays Memory Installed, Memory Available, Memory Speed, Memory Channel Mode, Memory Technology, DIMM 1 Size, and DIMM 2 Size.</li> <li>PCI Information: Displays Slot1_M.2, Slot2_M.2</li> <li>Processor Information: Displays Processor Type, Core Count, Processor ID, Current Clock Speed, Minimum Clock Speed, Maximum Clock Speed, Processor L2 Cache, Processor L3 Cache, HT Capable, and 64-Bit Technology.</li> <li>Device Information: Displays SATA-0, M.2 PCIe SSD-2, LOM MAC Address, Video Controller, Audio Controller, Wi-Fi Device, and Bluetooth Device.</li> </ul>
Boot Sequence	Allows you to specify the order in which the computer attempts to find an operating system from the devices specified in this list.
UEFI Boot Path Security	This option controls whether or not the system prompts the user to enter the Admin password when booting a UEFI boot path from the F12 Boot Menu.
Date/Time	Allows you to set the date and time settings. Changes to the system date and time take effect immediately.

### **System information**

**Table 20. System Configuration** 

**Table 20. System Configuration** 

Option	Description
Integrated NIC	Allows you to control the onboard LAN controller. The option 'Enable UEFI Network Stack' is not selected by default. The options are:  Disabled Enabled Enabled w/PXE (default)  NOTE: Depending on the computer and its installed devices, the items that are listed in this section may or may not appear.
SATA Operation	Allows you to configure the operating mode of the integrated hard drive controller.  • Disabled = The SATA controllers are hidden  • AHCI = SATA is configured for AHCI mode  • RAID ON = SATA is configured to support RAID mode (selected by default)
Drives	Allows you to enable or disable the various drives onboard:  • SATA-0 (enabled by default)  • M.2 PCle SSD-0 (enabled by default)
Smart Reporting	This field controls whether hard-drive errors for integrated drives are reported during system startup. The <b>Enable Smart Reporting option</b> is disabled by default.
USB Configuration	Allows you to enable or disable the integrated USB controller for:  • Enable USB Boot Support  • Enable Front USB Ports  • Enable Rear USB Ports  All the options are enabled by default.
Front USB Configuration	Allows you to enable or disable the front USB ports. All the ports are enabled by default.
Rear USB Configuration	Allows you to enable or disable the back USB ports. All the ports are enabled by default.
Audio	Allows you to enable or disable the integrated audio controller. The option <b>Enable Audio</b> is selected by default.  • Enable Microphone  • Enable Internal Speaker  Both the options are selected by default.
Dust Filter Maintenance	Allows you to enable or disable BIOS messages for maintaining the optional dust filter that is installed in your computer. BIOS will generate a pre-boot reminder to clean or replace the dust filter based on the interval set. The option <b>Disabled</b> is selected by default.  • Disabled  • 15 days  • 30 days  • 60 days  • 90 days  • 120 days  • 150 days  • 180 days

# Video screen options

### Table 21. Video

Option	Description
Primary Display	Allows you to select the primary display when multiple controllers are available in the system.  • Auto (default)  • Intel HD Graphics

### Table 21. Video

Option	Description
	(i) NOTE: If you do not select Auto, the on-board graphics device will be present and enabled.

# **Security**

### Table 22. Security (continued)

an administrative password and the system password. The range of characters is between and 32.  Password Bypass  This option lets you bypass the System (Boot) Password and the internal hard drive password prompts during a system restart.  Disabled — Always prompt for the system and internal HDD password when they are so This option is disabled by default.  Reboot Bypass — Bypass the password prompts on Restarts (warm boots).  NOTE: The system will always prompt for the system and internal HDD passwords when powered on from the off state (a cold boot). Also, the system will always prompt for passwords on any module bay HDDs that may be present.  Password Change  This option lets you determine whether changes to the System and Hard Disk passwords a permitted when an administrator password is set.  Allow Non-Admin Password Changes - This option is enabled by default.  UEFI Capsule Firmware Updates  This option controls whether this system allows BIOS updates via UEFI capsule update packages. This option is selected by default. Disabling this option will block BIOS updates from services such as Microsoft Windows Update and Linux Vendor Firmware Service (LVFS).	Option	Description	
Internal HDD-0 Password Allows you to set, change, and delete the computer's internal hard drive password.  Password Configuration Allows you to control the minimum and maximum number of characters that are allowed fo an administrative password and the system password. The range of characters is between and 32.  Password Bypass This option lets you bypass the System (Boot) Password and the internal hard drive password prompts during a system restart.  Disabled — Always prompt for the system and internal HDD password when they are so the system and internal HDD password when they are so the system and internal HDD password when they are so the system and internal HDD passwords when powered on from the off state (a cold boot). Also, the system will always prompt for passwords on any module bay HDDs that may be present.  Password Change  This option lets you determine whether changes to the System and Hard Disk passwords a permitted when an administrator password is set.  Allow Non-Admin Password Changes - This option is enabled by default.  UEFI Capsule Firmware Updates  This option controls whether this system allows BIOS updates via UEFI capsule update packages. This option is selected by default. Disabling this option will block BIOS updates from services such as Microsoft Windows Update and Linux Vendor Firmware Service (LVFS).  TPM 2.0 Security  Allows you to control whether the Trusted Platform Module (TPM) is visible to the operating system.  TPM On (default)  Clear  PPI Bypass for Disable Commands  PPI Bypass for Clear Commands  Attestation Enable (default)  Key Storage Enable (default)  Key Storage Enable (default)  Key Storage Enable (default)  Key Storage Enable (default)  SHA-256 (default)  Choose any one option:	Admin Password	Allows you to set, change, and delete the admin password.	
Password Configuration  Allows you to control the minimum and maximum number of characters that are allowed to an administrative password and the system password. The range of characters is between and 32.  Password Bypass  This option lets you bypass the System (Boot) Password and the internal hard drive password prompts during a system restart.  Disabled — Always prompt for the system and internal HDD password when they are so this option is disabled by default.  Reboot Bypass — Bypass the password prompts on Restarts (warm boots).  NOTE: The system will always prompt for the system and internal HDD passwords whe powered on from the off state (a cold boot). Also, the system will always prompt for passwords on any module bay HDDs that may be present.  Password Change  This option lets you determine whether changes to the System and Hard Disk passwords a permitted when an administrator password is set.  Allow Non-Admin Password Changes - This option is enabled by default.  UEFI Capsule Firmware Updates  Updates  This option controls whether this system allows BIOS updates via UEFI capsule update packages. This option is selected by default. Disabling this option will block BIOS updates from services such as Microsoft Windows Update and Linux Vendor Firmware Service (LVFS).  TPM 2.0 Security  Allows you to control whether the Trusted Platform Module (TPM) is visible to the operating system.  TPM On (default)  Clear  PPI Bypass for Enable Commands  Attestation Enable (default)  Key Storage Enable (default)  Key Storage Enable (default)  Key Storage Enable (default)  Choose any one option:	System Password	Allows you to set, change, and delete the system password.	
an administrative password and the system password. The range of characters is between and 32.  This option lets you bypass the System (Boot) Password and the internal hard drive password prompts during a system restart.  • Disabled — Always prompt for the system and internal HDD password when they are so this option is disabled by default.  • Reboot Bypass — Bypass the password prompts on Restarts (warm boots).  (i) NOTE: The system will always prompt for the system and internal HDD passwords when powered on from the off state (a cold boot). Also, the system will always prompt for passwords on any module bay HDDs that may be present.  Password Change  This option lets you determine whether changes to the System and Hard Disk passwords a permitted when an administrator password is set.  Allow Non-Admin Password Changes - This option is enabled by default.  UEFI Capsule Firmware  Updates  This option controls whether this system allows BIOS updates via UEFI capsule update packages. This option is selected by default. Disabling this option will block BIOS updates from services such as Microsoft Windows Update and Linux Vendor Firmware Service (LVFS).  TPM 2.0 Security  Allows you to control whether the Trusted Platform Module (TPM) is visible to the operating system.  • TPM On (default) • Clear  • PPI Bypass for Enable Commands • PPI Bypass for Clear Commands • PPI Bypass for Clear Commands • Attestation Enable (default) • Key Storage Enable (default) • Key Storage Enable (default) • SHA-256 (default) Choose any one option:	Internal HDD-0 Password	Allows you to set, change, and delete the computer's internal hard drive password.	
password prompts during a system restart.  Disabled — Always prompt for the system and internal HDD password when they are so This option is disabled by default.  Reboot Bypass — Bypass the password prompts on Restarts (warm boots).  NOTE: The system will always prompt for the system and internal HDD passwords whe powered on from the off state (a cold boot). Also, the system will always prompt for passwords on any module bay HDDs that may be present.  Password Change  This option lets you determine whether changes to the System and Hard Disk passwords a permitted when an administrator password is set.  Allow Non-Admin Password Changes - This option is enabled by default.  UEFI Capsule Firmware Updates  This option controls whether this system allows BIOS updates via UEFI capsule update packages. This option is selected by default. Disabling this option will block BIOS updates from services such as Microsoft Windows Update and Linux Vendor Firmware Service (LVFS).  TPM 2.0 Security  Allows you to control whether the Trusted Platform Module (TPM) is visible to the operating system.  TPM On (default)  Clear  PPI Bypass for Enable Commands  PPI Bypass for Clear Commands  PPI Bypass for Clear Commands  Attestation Enable (default)  Key Storage Enable (default)  SHA-256 (default)  Choose any one option:	Password Configuration	Allows you to control the minimum and maximum number of characters that are allowed for an administrative password and the system password. The range of characters is between 4 and 32.	
permitted when an administrator password is set.  Allow Non-Admin Password Changes - This option is enabled by default.  UEFI Capsule Firmware Updates  This option controls whether this system allows BIOS updates via UEFI capsule update packages. This option is selected by default. Disabling this option will block BIOS updates from services such as Microsoft Windows Update and Linux Vendor Firmware Service (LVFS).  TPM 2.0 Security  Allows you to control whether the Trusted Platform Module (TPM) is visible to the operation system.  TPM On (default)  Clear  PPI Bypass for Enable Commands  PPI Bypass for Disable Commands  PPI Bypass for Clear Commands  Attestation Enable (default)  Key Storage Enable (default)  SHA-256 (default)  Choose any one option:	Password Bypass	<ul> <li>password prompts during a system restart.</li> <li>Disabled — Always prompt for the system and internal HDD password when they are set. This option is disabled by default.</li> <li>Reboot Bypass — Bypass the password prompts on Restarts (warm boots).</li> <li>NOTE: The system will always prompt for the system and internal HDD passwords when powered on from the off state (a cold boot). Also, the system will always prompt for</li> </ul>	
UEFI Capsule Firmware Updates  This option controls whether this system allows BIOS updates via UEFI capsule update packages. This option is selected by default. Disabling this option will block BIOS updates from services such as Microsoft Windows Update and Linux Vendor Firmware Service (LVFS).  TPM 2.0 Security  Allows you to control whether the Trusted Platform Module (TPM) is visible to the operating system.  TPM On (default)  Clear  PPI Bypass for Enable Commands  PPI Bypass for Disable Commands  PPI Bypass for Clear Commands  Attestation Enable (default)  Key Storage Enable (default)  SHA-256 (default)  Choose any one option:	Password Change	This option lets you determine whether changes to the System and Hard Disk passwords are permitted when an administrator password is set.	
Updates  packages. This option is selected by default. Disabling this option will block BIOS updates from services such as Microsoft Windows Update and Linux Vendor Firmware Service (LVFS).  TPM 2.0 Security  Allows you to control whether the Trusted Platform Module (TPM) is visible to the operating system.  TPM On (default)  Clear  PPI Bypass for Enable Commands  PPI Bypass for Disable Commands  PPI Bypass for Clear Commands  Attestation Enable (default)  Key Storage Enable (default)  SHA-256 (default)  Choose any one option:		Allow Non-Admin Password Changes - This option is enabled by default.	
system.  TPM On (default)  Clear  PPI Bypass for Enable Commands  PPI Bypass for Disable Commands  PPI Bypass for Clear Commands  Attestation Enable (default)  Key Storage Enable (default)  SHA-256 (default)  Choose any one option:	•	packages. This option is selected by default. Disabling this option will block BIOS updates from services such as Microsoft Windows Update and Linux Vendor Firmware Service	
	TPM 2.0 Security	<ul> <li>TPM On (default)</li> <li>Clear</li> <li>PPI Bypass for Enable Commands</li> <li>PPI Bypass for Disable Commands</li> <li>PPI Bypass for Clear Commands</li> <li>Attestation Enable (default)</li> <li>Key Storage Enable (default)</li> <li>SHA-256 (default)</li> </ul>	
• Enabled (default)		Disabled	
Absolute  This field lets you Enable, Disable or permanently Disable the BIOS module interface of the optional Absolute Persistence Module service from Absolute Software.  Enabled - This option is selected by default.  Disable Permanently Disabled	Absolute	<ul> <li>optional Absolute Persistence Module service from Absolute Software.</li> <li>Enabled - This option is selected by default.</li> <li>Disable</li> </ul>	
Chassis Intrusion This field controls the chassis intrusion feature.	Chassis Intrusion	This field controls the chassis intrusion feature.	

### Table 22. Security

Option	Description
	Choose any one of the options:
	<ul><li>Disabled (default)</li><li>Enabled</li><li>On-Silent</li></ul>
Admin Setup Lockout	Allows you to prevent users from entering Setup when Admin password is set. This option is not set by default.
Master Password Lockout	Allows you to disable master password support. Hard Disk passwords need to be cleared before the settings can be changed. This option is not set by default.
SMM Security Mitigation	Allows you to enable or disable additional UEFI SMM Security Mitigation protections. This option is not set by default.

### **Secure boot options**

#### Table 23. Secure Boot

Option	Description
Secure Boot Enable	Allows you to enable or disable Secure Boot feature  • Secure Boot Enable  This option is not selected by default.
Secure Boot Mode	Allows you to modify the behavior of Secure Boot to allow evaluation or enforcement of UEFI driver signatures.  • Deployed Mode (default)  • Audit Mode
Expert key Management	Allows you to manipulate the security key databases only if the system is in Custom Mode. The Enable Custom Mode option is disabled by default. The options are:  PK (default)  KEK  db  dbx  If you enable the Custom Mode, the relevant options for PK, KEK, db, and dbx appear. The options are:  Save to File- Saves the key to a user-selected file  Replace from File- Replaces the current key with a key from a user-selected file  Append from File- Adds a key to the current database from a user-selected file  Delete- Deletes the selected key  Reset All Keys- Resets to default setting  Delete All Keys- Deletes all the keys  NOTE: If you disable the Custom Mode, all the changes made will be erased and the keys will restore to default settings.

# **Intel Software Guard Extensions options**

**Table 24. Intel Software Guard Extensions** 

Option	Description
	This field specifies you to provide a secured environment for running code/storing sensitive information in the context of the main OS.  Click one of the following options:

Table 24. Intel Software Guard Extensions (continued)

Option	Description
	<ul> <li>Disabled</li> <li>Enabled</li> <li>Software controlled—Default</li> </ul>
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 25. 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.
	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 26. Power Management**

Option	Description
AC Recovery	Determines how the system responds when AC power is re-applied after a power loss. You can set the AC Recovery to:

Table 26. Power Management (continued)

Option	Description	
	<ul> <li>Power Off</li> <li>Power On</li> <li>Last Power State</li> <li>This option is Power Off by default.</li> </ul>	
Enable Intel Speed Shift Technology	Allows you to enable or disable Intel Speed Shift Technology support. The option <b>Enable Intel Speed Shift Technology</b> is set by default.	
Auto On Time	Sets time to automatically turn on the computer. Time is kept in standard 12-hour format (hour:minutes:seconds). Change the startup time by typing the values in the time and AM/PM fields.  (i) NOTE: This feature does not work if you turn off your computer using the switch on a power strip or surge protector or if Auto Power is set to disabled.	
Deep Sleep Control	Allows you to define the controls when Deep Sleep is enabled.  Disabled  Enabled in S5 only Enabled in S4 and S5 .	
USB Wake Support	Allows you to enable the USB devices to wake the computer from standby mode. The option "Enable USB Wake Support" is selected by default	
Wake on LAN/WWAN	<ul> <li>This option allows the computer to power up from the off state when triggered by a special LAN signal. This feature only works when the computer is connected to AC power supply.</li> <li>Disabled - Does not allows the system to power on by special LAN signals when it receives a wake-up signal from the LAN or wireless LAN.</li> <li>LAN or WLAN - Allows the system to be powered on by special LAN or wireless LAN signals.</li> <li>LAN Only - Allows the system to be powered on by special LAN signals.</li> <li>LAN with PXE Boot - A wakeup packet sent to the system in either the S4 or S5 state, that will cause the system to wake-up and immediately boot to PXE.</li> <li>WLAN Only - Allows the system to be powered on by special WLAN signals.</li> <li>This option is Disabled by default.</li> </ul>	
Block Sleep	Allows you to block entering to sleep (S3 state) in OS environment. This option is disabled by default.	

### Post behavior

Table 27. POST Behavior

Option	Description	
Adapter Warnings	This option lets you choose whether the system displays warning messages when you use certain power adapters. This option is enabled by default.	
Numlock LED	Allows you to enable or disable the Numlock feature when your computer starts. This option is enabled by default.	
Keyboard Errors	Allows you to enable or disable the keyboard error reporting when the computer starts. The option <b>Enable Keyboard Error Detection</b> is enabled by default.	
Fast Boot	<ul> <li>This option can speed up the boot process by bypassing some compatibility steps:</li> <li>Minimal — The system boots quickly, unless the BIOS has been updated, memory changed, or the previous POST did not complete.</li> <li>Thorough — The system does not skip any steps in the boot process.</li> <li>Auto — This allows the operating system to control this setting (this works only when the operating system supports Simple Boot Flag).</li> <li>This option is set to <b>Thorough</b> by default.</li> </ul>	

#### **Table 27. POST Behavior**

Option	Description	
Extend BIOS POST Time	This option creates an additional pre-boot delay.  • 0 seconds (default)  • 5 seconds  • 10 seconds	
Full Screen Logo	This option will display full screen logo if your image match screen resolution. The option <b>Enable Full Screen Logo</b> is not set by default.	
Warnings and Errors	This option causes the boot process to only pause when warning or errors are detected. Choose any one of the option:  Prompt on Warnings and Errors - default  Continue on Warnings  Continue on Warnings and Errors	

# Virtualization support

### **Table 28. 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 29. Wireless

Option	Description
Wireless Device Enable	Allows you to enable or disable the internal wireless devices.
	The options are:
	WLAN/WiGig
	Bluetooth
	All the options are enabled by default.

### Maintenance

### Table 30. 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.	

#### Table 30. Maintenance

Option	Description	
SERR Messages	Controls the SERR message mechanism. This option is set by default. Some graphics cards require that the SERR message mechanism be disabled.	
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 key.	
	i NOTE: BIOS Recovery from Hard Drive field must be enabled.	
	Always Perform Integrity Check—Performs integrity check on every boot.	
First Power On Date	Allows you the set Ownership date. The option <b>Set Ownership Date</b> is not set by default.	

# **System logs**

### Table 31. System Logs

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

### **Advanced configuration**

### Table 32. Advanced configuration

Description
Allows you to set the ASPM level.  • Auto (default) - There is handshaking between the device and PCI Express hub to determine the best ASPM mode supported by the device  • Disabled - ASPM power management is turned off at all time  • L1 Only - ASPM power management is set to use L1

### **SupportAssist System Resolution**

Option	Description
Auto OS Recovery Threshold	Allows you to control the automatic boot flow for SupportAssist System. Options are:  Off 1 2 (Enabled by default) 3
SupportAssist OS Recovery	Allows you to recover the SupportAssist OS Recovery (Enabled by default).
BIOSConnect	BIOSConnect enable or disable cloud Service OS upon absence of Local OS Recovery (Enabled by default).

### **Updating the BIOS in Windows**

#### **Prerequisites**

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

#### About this task

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

#### **Steps**

- 1. Restart the computer.
- 2. Go to Dell.com/support.
  - Enter the Service Tag or Express Service Code and click Submit.
  - Click Detect Product and follow the instructions on screen.
- 3. If you are unable to detect or find the Service Tag, click Choose from all products.
- 4. Choose the **Products** category from the list.
  - 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**.
- 10. Select your preferred download method in the Please select your download method below window, click Download File. The File Download window appears.
- 11. Click Save to save the file on your computer.
- 12. Click Run to install the updated BIOS settings on your computer.

Follow the instructions on the screen.

### Updating BIOS on systems with BitLocker enabled

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

### Updating your system BIOS using a USB flash drive

#### About this task

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

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

#### **Steps**

- 1. Download the BIOS update .EXE file to another system.
- 2. Copy the file e.g. O9010A12.EXE onto the bootable USB Flash drive.
- 3. Insert the USB Flash drive into the system that requires the BIOS update.

- 4. Restart the system and press F12 when the Dell Splash logo appears to display the One Time Boot Menu.
- 5. Using arrow keys, select **USB Storage Device** and click Return.
- **6.** The system will boot to a Diag C:\> prompt.
- 7. Run the file by typing the full filename e.g. O9010A12.exe and press Return.
- 8. The BIOS Update Utility will load, follow the instructions on screen.

```
This utility will update the system BIOS and firmware. During the update procedure, your system will restart. Do not interrupt this procedure once it begins. Do not disconnect the AC power source (if you are updating a mobile computer, connect the AC power adapter). Interruption of the BIOS/firmware update procedure will likely render your system unusable.

Do you wish to continue (y/n)? y

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```

Figure 1. DOS BIOS Update Screen

### System and setup password

#### Table 33. System and setup password

Password type	Description
System password	Password that you must enter to log on to your system.
	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.

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

igwedge 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

#### **Prerequisites**

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

#### About this task

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

#### **Steps**

- In the System BIOS or System Setup screen, select Security and press Enter.
  The Security screen is displayed.
- 2. Select System/Admin Password and create a password in the Enter the new password field.

Use the following guidelines to assign the system password:

- A password can have up to 32 characters.
- The password can contain the numbers 0 through 9.
- Only lower case letters are valid, upper case letters are not allowed.
- Only the following special characters are allowed: space, ("), (+), (,), (-), (.), (/), (;), ([), (\), (]), (`).
- 3. Type the system password that you entered earlier in the Confirm new password field and click OK.
- 4. Press **Esc** and a message prompts you to save the changes.
- **5.** Press **Y** to save the changes. The computer reboots.

### Deleting or changing an existing system setup password

#### **Prerequisites**

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

#### About this task

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

#### **Steps**

- 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.

# **Getting help**

# **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.