

# Dell Vostro 3671

## Setup and specifications guide



Identifier	GUID-5B8DE7B7-879F-45A4-88E0-732155904029
Status	Released

## Notes, cautions, and warnings

 **NOTE:** A NOTE indicates important information that helps you make better use of your product.

 **CAUTION:** A CAUTION indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.

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

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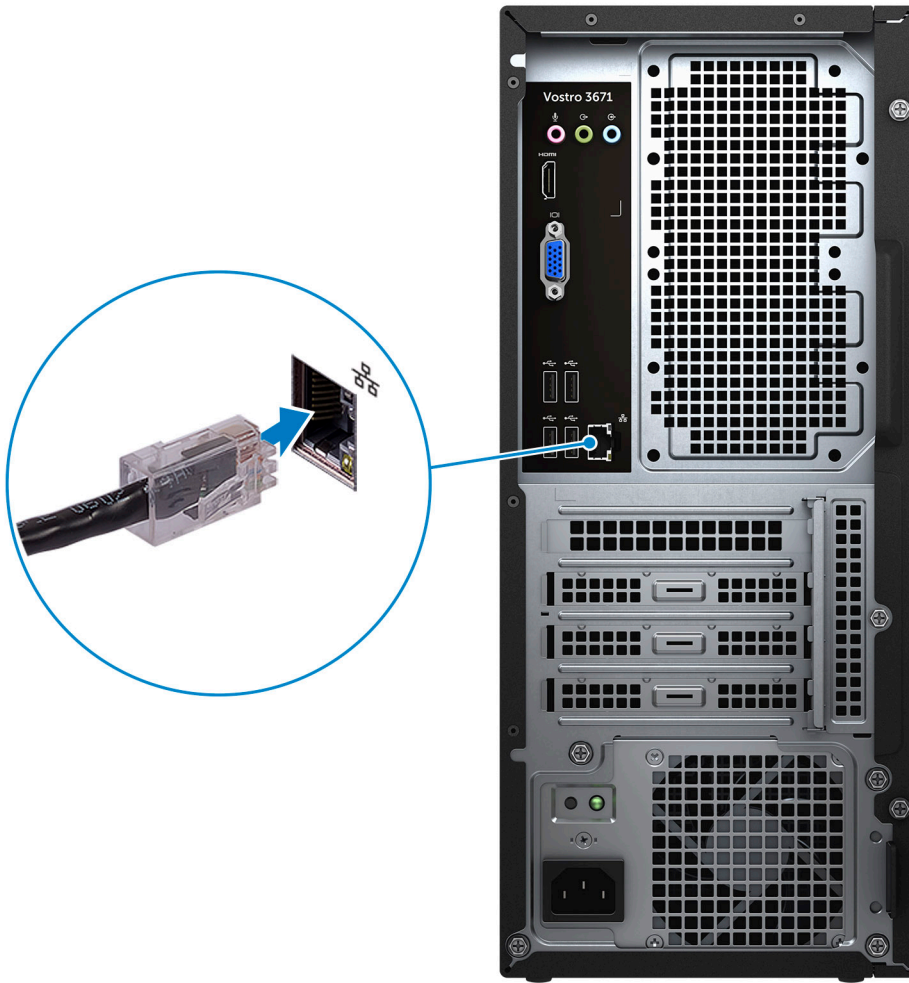
Identifier	GUID-3D3872E8-2E07-472E-AD74-BB0C91F279D9
Status	Released

## Set up your computer

1. Connect the keyboard and mouse.



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

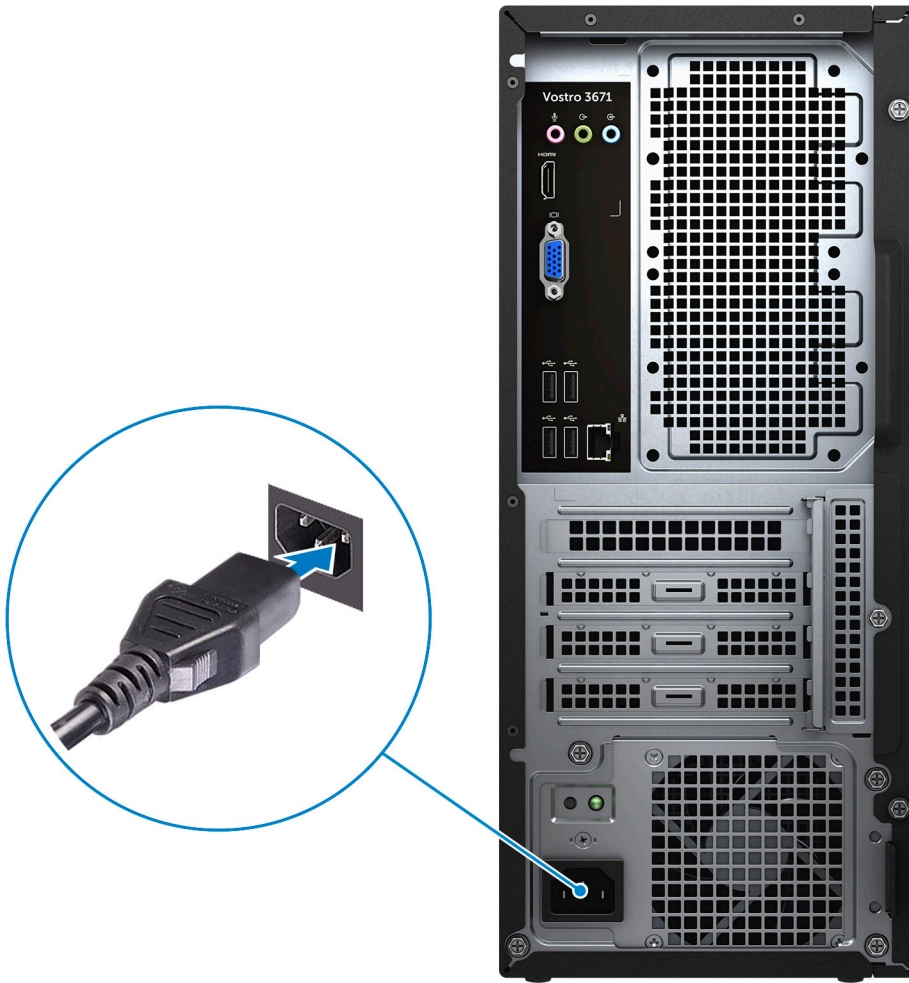


3. Connect the display.



**i** **NOTE:** If you ordered your computer with a discrete graphics card, the HDMI and the display ports on the back panel of your computer are covered. Connect the display to the discrete graphics card.

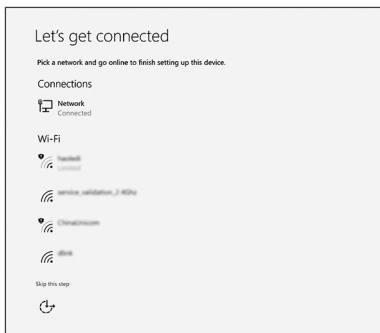
4. Connect the power cable.



5. Press the power button.



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



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



Make it yours

Your Microsoft account opens a world of benefits. [Learn more](#)

[Forgot my password](#)

No account? [Create one!](#)

[Microsoft privacy statement](#)

[Sign in](#)

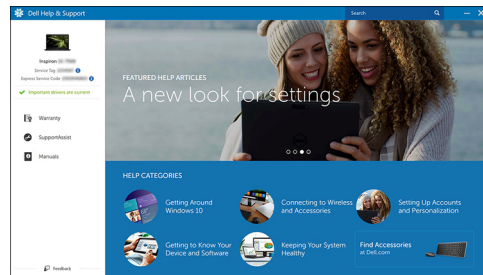
7. Locate Dell apps.

**Table 1. Locate Dell apps**



Register your computer

Dell Help & Support



SupportAssist — Check and update your computer

Identifier	GUID-7860C520-DB58-424E-B5CD-1F03B2087380
Status	Released

## Chassis

The chapter illustrates the multiple views of the chassis along with the ports and connectors.

### Topics:

- [Chassis views](#)

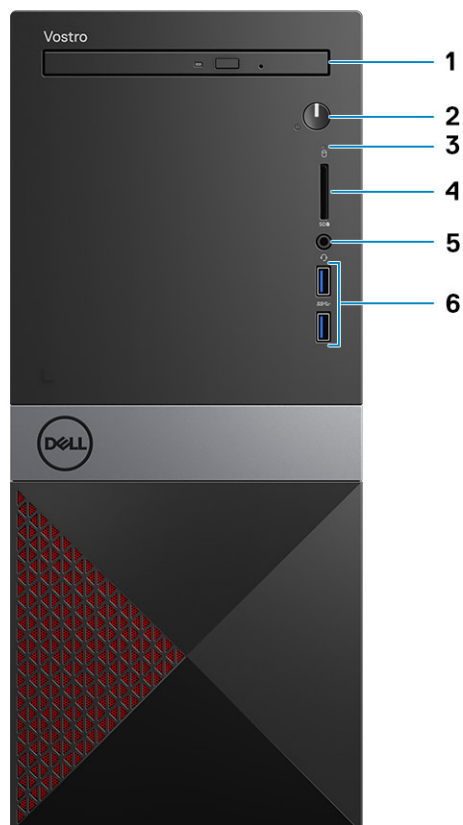
Identifier	GUID-E5FCAEC3-D2EC-4331-9534-EF67226CC899
Status	Released

## Chassis views

GUID-E5FCAEC3-D2EC-4331-9534-EF67226CC899

The chassis view displays only the standard components and all the optional components may not be listed.

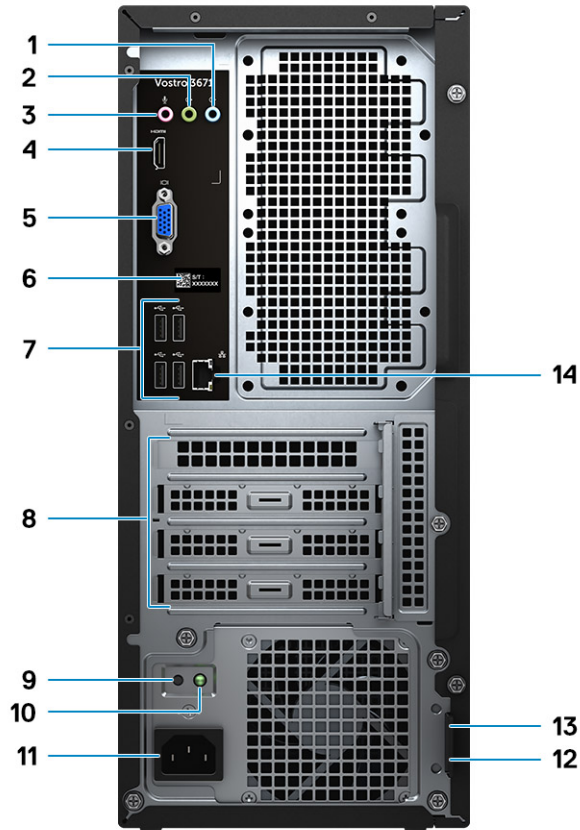
### Front view



1. Optical drive
2. Power button/Power-status light
3. Hard-drive activity light

- 4. SD card slot
- 5. Headset port
- 6. USB 3.1 Gen 1 ports (2)

**Back view**



- 1. Line-in port
- 2. Line-out port
- 3. Microphone port
- 4. HDMI port
- 5. VGA port
- 6. Service tag label
- 7. USB 2.0 ports (4)
- 8. Expansion card slots
- 9. Power supply diagnostics button
- 10. Power supply diagnostics light
- 11. Power connector port
- 12. Padlock ring
- 13. Kensington security slot
- 14. Network port

Identifier	GUID-AB67ED37-0818-4592-A25C-F04B3A73C18D
Status	Released

## 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:

- Physical specifications
- System information
- Operating system
- Memory specifications
- Ports and connectors
- Communications
- Video
- Audio specifications
- Storage
- Processor specifications
- System board connectors
- Power supply specifications
- Security hardware
- Regulatory and Environmental Compliance

Identifier	GUID-E9E64B8A-F648-4A28-BFE8-2CD0033B76BF
Status	Released

## Physical specifications

GUID-E9E64B8A-F648-4A28-BFE8-2CD0033B76BF

**Table 2. Dimensions and weight**

Feature	Specifications
Height	14.7 inch (373.7 mm)
Width	6.3 inch (160 mm)
Depth	11.4 inch (289.4 mm)
Weight	13.01 lb (5.9 kg)

Identifier	GUID-54822EE7-27F9-4FB3-8922-70F0B6366BC5
Status	Released

## System information

GUID-54822EE7-27F9-4FB3-8922-70F0B6366BC5

**Table 3. System information**

Feature	Specifications
Chipset	Intel B365
DRAM bus width	64-bit wide channels
FLASH EPROM	256 Mbit
PCIe clock bus	100 MHz
External bus frequency	DMI 3.0-8GT/s

Identifier	GUID-36032096-50A9-4A5F-92F7-275124B3338F
Status	Released

## Operating system

GUID-36032096-50A9-4A5F-92F7-275124B3338F

Operating systems supported:

- Windows 10 Home (64-bit)
- Windows 10 Professional (64-bit)
- Ubuntu
- Windows 10 national academy

Identifier	GUID-5A94D12B-6CB0-453D-8A80-3D15D6040FE7
Status	Released

## Memory specifications

GUID-5A94D12B-6CB0-453D-8A80-3D15D6040FE7

**Table 4. Memory specifications**

Feature	Specifications
Minimum memory configuration	4 GB
Maximum memory configuration	32 GB
Number of slots	2
Maximum memory supported per slot	<ul style="list-style-type: none"> <li>• Slot configuration1: 4 GB</li> <li>• Slot configuration2: 8 GB</li> <li>• Slot configuration3: 16 GB</li> </ul>
Memory options	<ul style="list-style-type: none"> <li>• 4 GB (4 GB x 1)</li> <li>• 8 GB (4 GB x 2 or 8 GB x 1)</li> <li>• 12 GB (1 x 4 GB + 1 x 8 GB)</li> <li>• 16 GB (8 GB x 2 or 16 GB x1)</li> <li>• 24 GB (8 GB x 1+16 GB x1)</li> <li>• 32 GB (16 GB x 2)</li> </ul> <p><b>NOTE:</b> The memory modules are customer replaceable units (CRU), and it can be upgraded.</p>
Type	Dual-channel DDR4
Speed	<ul style="list-style-type: none"> <li>• Speed Configuration1: Intel 9th Generation i5/i7 is 2666 MHz</li> <li>• Speed Configuration2: Intel 9th Generation i3/Intel Pentium Gold/Intel Celeron is 2400MHz</li> </ul>

Identifier	GUID-F06A4E50-A457-4C28-B1EF-2F0F340F70C0
Status	Released

# Ports and connectors

GUID-F06A4E50-A457-4C28-B1EF-2F0F340F70C0

**Table 5. External ports and connectors**

Description	Values
<b>External:</b>	
Network	One RJ-45 port
USB	<ul style="list-style-type: none"> <li>Two USB 3.1 Gen1 ports</li> <li>Four USB 2.0 ports</li> </ul>
Audio	One headset (headphone and microphone combo) port, and one Line-in/Line-out/mic Jack
Video	One HDMI 1.4b port and one VGA port
Media card reader	One SD-card slot
Docking port	Not supported
Power adapter port	NA
Security	NA
Express card	Not supported
Smart card reader	Not supported
Legacy ports	Not supported
Micro subscriber identity module (uSIM) card	Not supported

**Table 6. Internal ports and connectors**

Description	Values
<b>Internal:</b>	
Expansion	One PCIe16 expansion card slot, two PCIe1 expansion card slot and one PCI slot.
mSATA slots	N/A
SATA slots	One SATA slot for 3.5-inch HDD, two SATA slot for optional 2.5-inch HDD, and one SATA slot for ODD.
M.2	<ul style="list-style-type: none"> <li>One M.2 2230 slot for WiFi and Bluetooth combo card</li> <li>One M.2 2230/2280 slot for NVMe or Intel Optane</li> </ul> <p><b>NOTE:</b> To learn more about the features of different types of M.2 cards, see the knowledge base article <a href="#">SLN301626</a>.</p>

Identifier	GUID-2C085113-129C-4130-9C87-B8F687554630
Status	Released

# Communications

GUID-2C085113-129C-4130-9C87-B8F687554630

# Ethernet

Table 7. Ethernet specifications

Description	Values
Model number	REALTEK RTL8111H PCI-e Gigabit ethernet controller
Transfer rate	10/100/1000

# Wireless module

Table 8. Wireless module specifications

Description	Values
Model number	Qualcomm DW1707
Transfer rate	Up to 150 Mbps
Frequency bands supported	2.4 GHz
Wireless standards	WiFi 802.11b/g/n Wi-Fi 4 (WiFi 802.11n)
Encryption	<ul style="list-style-type: none"><li>64-bit/128-bit WEP</li><li>AES-CCMP</li><li>TKIP</li></ul>
Bluetooth	Bluetooth 4.0

Identifier	GUID-7C80C67C-7A56-4F0A-A0D3-585B28D2C0E9
Status	Released

# Video

GUID-7C80C67C-7A56-4F0A-A0D3-585B28D2C0E9

Table 9. Discrete graphics specification

Discrete graphics			
Controller	External display support	Memory size	Memory Type
NVIDIA GT730	1*HDMI/1*VGA/1*DVI-D	2 GB	GDDR5
NVIDIA GT1030	1*HDMI/1*DVI-D	2 GB	GDDR5
NVIDIA GTX1650	1*HDMI/1*DVI-D	4 GB	GDDR5

Table 10. Integrated graphics specifications

Integrated graphics			
Controller	External display support	Memory size	Processor
Intel UHD 630 Graphics	One HDMI 1.4b port	Shared system memory	9 <sup>th</sup> Generation Intel Core i3/i5/i7
Intel UHD 610 Graphics	One HDMI 1.4b port	Shared system memory	Intel Cel, PDC

Identifier	GUID-EAB9A448-AA8A-44F0-83BD-67B89516DDB2
Status	Released

# Audio specifications

GUID-EAB9A448-AA8A-44F0-83BD-67B89516DDB2

**Table 11. Audio specifications**

Feature	Specifications
Controller	Waves MaxxAudio Pro
Type	Four-channel high-definition audio
Interface	<ul style="list-style-type: none"> <li>3-stack audio jacks supporting 5.1 surround sound.</li> <li>High-quality speakers</li> <li>Stereo headset/mic combo</li> </ul>

Identifier	GUID-C42ABF1B-1DB0-46F3-AF80-E9DEC3493B1A
Status	Released

## Storage

GUID-C42ABF1B-1DB0-46F3-AF80-E9DEC3493B1A

Your computer supports one of the following configurations:

- One 3.5-inch hard-drive.
- One M.2 2230/2280 NVMe solid-state drive.
- One 3.5-inch hard-drive and one M.2 2230/2280 NVMe solid-state drive.
- One 3.5-inch hard-drive, one M.2 2230/2280 NVMe solid-state drive, and one or two 2.5-inch hard-drive.
- The primary drive of your computer varies with the storage configuration. With a M.2 drive, the M.2 drive is the primary drive, and for computers without a M.2 drive, the 3.5-inch hard drive is the primary drive.

**Table 12. Storage specifications**

Storage type	Interface type	Capacity
One 3.5-inch hard drive	SATA AHCI, up to 6 Gbps	
Two 2.5-inch hard drives	SATA AHCI, up to 6 Gbps	
One M.2 2280 solid-state drive	PCIe Gen3.0x2 NVMe, up to 16 Gbps	
One 9.5 mm slimline DVD-RW drive	SATA AHCI, up to 1.5 Gbps	

Identifier	GUID-9579F537-4EBA-4285-9AC0-BCC504B29ED0
Status	Released

## Processor specifications

GUID-9579F537-4EBA-4285-9AC0-BCC504B29ED0

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

**Table 13. Processor specifications**

Type	UMA Graphics
Intel 8th Generation Celeron processor G4900 (2 MB Cache, 2 cores, 2 thread, 54 W, 3.1 GHz)	Intel UHD Graphics 610 with shared graphics memory
Intel 8th Generation Pentium Gold processor G5400 (4 MB Cache, 2 cores, 4 thread, 58 W, 3.7 GHz)	Intel UHD Graphics 610 with shared graphics memory
Intel 8th Generation Core i3-8100 processor (6 MB Cache, 4 cores, 4 thread, 65 W, 3.6 GHz)	Intel UHD Graphics 630 with shared graphics memory
Intel 8th Generation Core i5-8400 processor (9 MB Cache, 6 cores, 6 thread, 65 W, 2.8 GHz (up to 4.0 GHz))	Intel UHD Graphics 630 with shared graphics memory



Type	UMA Graphics
Intel 8th Generation Core i7-8700 processor (12 MB Cache, 6 cores, 12 thread, 65 W, 3.2 GHz (up to 4.6 GHz))	Intel UHD Graphics 630 with shared graphics memory
Intel 9th Generation Celeron G4930 (2 MB Cache, 2 cores, 2 Thread, 54 W, 3.2 GHz)	Intel UHD Graphics 610 with shared graphics memory
Intel 9th Generation Pentium Gold G5420 (4 MB Cache, 2 cores, 4 cores, 54 W, 3.8 GHz)	Intel UHD Graphics 610 with shared graphics memory
Intel 9th Generation Core i3-9100 (8 MB Cache, 4 cores, 4 thread, 65 W, 3.6 GHz (up to 4.2 GHz))	Intel UHD Graphics 630 with shared graphics memory
Intel 9th Generation Core i5-9400 (9 MB Cache, 6 cores, 6 thread, 65 W, 2.9 GHz (up to 4.1 GHz))	Intel UHD Graphics 630 with shared graphics memory
Intel 9th Generation Core i7-9700 (12 MB Cache, 8 cores, 8 thread, 65 W, 3.0 GHz (up to 4.7 GHz))	Intel UHD Graphics 630 with shared graphics memory

Identifier	GUID-C61760F8-FC49-4E48-82D7-83D7225642DF
Status	Released

## System board connectors

GUID-C61760F8-FC49-4E48-82D7-83D7225642DF

**Table 14. System board connectors**

Feature	Specifications
M.2 Connectors	M.2 2230/2280 for M.2 PCIe SSD/Wireless (optional)
Serial ATA (SATA) connector	4 SATA 3.0 ports (Up to 6Gb/s)
PCIe X16 slot	PCIe X16 (1)
PCIe X1 slot	PCIe X1 (2)
PCI	PCI (1)

**NOTE:** PCI slot support on TPM sku

Identifier	GUID-B4185156-47C8-490F-BEC0-5D0FCD145042
Status	Released

## Power supply specifications

GUID-B4185156-47C8-490F-BEC0-5D0FCD145042

**Table 15. Power supply**

Feature	Specifications
Input Voltage	100–240 VAC, 50–60 Hz
Wattage	<ul style="list-style-type: none"> <li>290 W PSU (APFC Full range)</li> <li>290 W PSU (EPA Bronze)</li> </ul>

Identifier	GUID-36C4C70A-DOC8-4325-86FB-1B4EAA9D5CA7
Status	Released

# Security hardware

GUID-36C4C70A-DOC8-4325-86FB-1B4EAA9D5CA7

**Table 16. Security hardware**

Feature	Specifications
Security HW	<ul style="list-style-type: none"> <li>• Data wipe via BIOS (Secure Erase)</li> <li>• Support of Computrace BIOS agent – supports both Computrace and Proactive Systems Management</li> <li>• Discrete TPM 2.0 (optional)</li> <li>• BIOS disable TPM (China Only)</li> </ul>

Identifier	GUID-6AB443BA-0C4C-41B9-8C3E-237AFF200D1A
Status	Released

# Regulatory and Environmental Compliance

GUID-6AB443BA-0C4C-41B9-8C3E-237AFF200D1A

**Table 17. Regulatory and Environmental Compliance**

Feature	Specifications
Regulatory and Environmental Compliance	<ul style="list-style-type: none"> <li>• Energy Star 7.1 (available in selected configurations only)</li> <li>• FCC, UL mark</li> <li>• EPEAT Registered (for selected configurations only). For specific country participation and rating, please visit <b><a href="http://www.epeat.net">www.epeat.net</a></b></li> <li>• 1 Million Hr MTBF (China only, Post-RTS)</li> </ul>
Temperature range	<ul style="list-style-type: none"> <li>• Operating :10°C to 35°C (50°F to 95°F)</li> <li>• Storage: -40°C to 65°C (-40°F to 149°F)</li> </ul>
Relative humidity	<ul style="list-style-type: none"> <li>• Operating : 20% to 80% (*Max dew point temperature = 26°C) (non-condensing)</li> <li>• Storage: 5% to 95% (+Max dew point temperature = 33°C) (non-condensing)</li> </ul>
Airborne contaminant level	G1 as defined by ISA-S71.04-1985
Vibration	Vibration (maximum)*: operating=0.26 GRMS; Storage=1.37 GRMS
Shock	Shock (maximum): operating=40 G‡; Storage=105 G‡

Identifier	GUID-A0100BF3-30E3-471A-8D1A-A77C0E46345F
Status	Released

## 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](#)
- [General screen options](#)
- [System Configuration screen options](#)
- [System Configuration screen options](#)
- [Video screen options](#)
- [Security screen options](#)
- [Secure Boot screen options](#)
- [Intel Software Guard Extensions screen options](#)
- [Performance screen options](#)
- [Power Management screen options](#)
- [POST Behavior screen options](#)
- [Virtualization support screen options](#)
- [Wireless screen options](#)
- [Maintenance screen options](#)
- [System Log screen options](#)
- [Advanced configuration options](#)
- [SupportAssist System Resolution](#)

Identifier	GUID-E8E05C46-BC9D-4CF1-AC84-34B87FDCCFB7
Status	Released

## System setup

GUID-E8E05C46-BC9D-4CF1-AC84-34B87FDCCFB7

**⚠ 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.

**ℹ 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.

## General screen options

GUID-889987C3-78B9-4E4D-AC9F-163A52759254



This section lists the primary hardware features of your computer.

Option	Description
<b>System Information</b>	<ul style="list-style-type: none"> <li>System Information: Displays BIOS Version, Service Tag, Asset Tag, Ownership Tag, Ownership Date, Manufacture Date, and the Express Service Code.</li> <li>Memory Information: Displays Memory Installed, Memory Available, Memory Speed, Memory Channels Mode, Memory Technology, DIMM 1 Size, DIMM 2Size.</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 Primary Hard Drive, SATA-0, SATA-1, SATA-2, SATA-3, LOM MAC Address, Video Controller, Audio Controller, WiFi Device, Bluetooth Device.</li> </ul>
<b>Boot Sequence</b>	<p><b>Boot Sequence</b> Allows you to change the order in which the computer attempts to find an operating system. The options are:</p> <ul style="list-style-type: none"> <li>Windows Boot Manager</li> <li>Onboard NIC(IPV4)</li> <li>Oboard NIC(IPV6)</li> </ul> <p>By default, all the options are checked. You can also deselect any option or change the boot order.</p> <p><b>Boot List Options</b> Allows you to change the boot list option:</p> <ul style="list-style-type: none"> <li>Legacy External Devices</li> <li>UEFI (default)</li> </ul>
<b>Advanced Boot Options</b>	<p>This option allows you the legacy option ROMs to load.</p> <ul style="list-style-type: none"> <li>By default, the <b>Enable Legacy Option ROMs</b> is enabled</li> <li>This option allows you the legacy option ROMs to load. By default, the <b>Enable Attemot Legacy Boot</b> is disabled.</li> </ul>
<b>UEFI Boot Path Security</b>	<p>This options control whether or not the system will prompt the user to enter the Admin password (if set) when booting a UEFI boot path from the F12 Boot Menu</p> <ul style="list-style-type: none"> <li><b>Always Except Internal HDD</b> (default)</li> <li>Always</li> <li>Never</li> </ul>
<b>Date/Time</b>	Allows you to change the date and time.

## System Configuration screen options


GUID-2A298925-AEAE-49A3-9062-F35D0532EC34

Option	Description
<b>Integrated NIC</b>	<p>Allows you to configure the integrated network controller. The options are:</p> <ul style="list-style-type: none"> <li>Disabled</li> <li>Enabled</li> </ul>

Option	Description
	<ul style="list-style-type: none"> <li>Enabled w/PXE: This option is enabled by default.</li> </ul>
<b>SATA Operation</b>	<p>Allows you to configure the internal SATA hard-drive controller. The options are:</p> <ul style="list-style-type: none"> <li>Disabled</li> <li>.</li> <li><b>AHCI</b></li> <li><b>RAID On</b>(default)</li> </ul>
<b>Drives</b>	<p>Allows you to configure the SATA drives on board. All drives are enabled by default. The options are:</p> <ul style="list-style-type: none"> <li>SATA-0</li> <li>SATA-1</li> <li>SATA-2</li> <li>SATA-3</li> <li>M.2 PCIe SSD-0</li> </ul>
<b>SMART Reporting</b>	<p>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.</p> <ul style="list-style-type: none"> <li>Enable SMART Reporting</li> </ul>
<b>USB Configuration</b>	<p>This field configures the integrated USB controller. If Boot Support is enabled, the system is allowed to boot any type of USB Mass Storage Devices (HDD, memory key, floppy).</p> <p>If USB port is enabled, device attached to this port is enabled and available for OS.</p> <p>If USB port is disabled, the OS cannot see any device attached to this port.</p> <ul style="list-style-type: none"> <li><b>Enable USB Boot Support</b> (default)</li> <li><b>Enable Front USB Ports</b>(default)</li> <li><b>Enable Rear USB Ports</b> (default)</li> </ul> <p> <b>NOTE: USB keyboard and mouse always work in the BIOS setup irrespective of these settings.</b></p>
<b>Front USB Configuration</b>	<p>This field enables or disables the front USB configuration</p> <ul style="list-style-type: none"> <li><b>Front Port 1 (Bottom Right)* (default)</b></li> <li><b>Front Port 2 (Bottom Left)* (default)</b></li> </ul> <p>* denotes a USB 3.0-capable port</p>
<b>Rear USB Configuration</b>	<p>This field enables or disables the front USB configuration</p> <ul style="list-style-type: none"> <li>Rear Port 1</li> <li>Rear Port 2</li> <li>Rear Port 3 (w/RJ-45)</li> <li>Rear Port 4 (w/RJ-45)</li> </ul> <p>* denotes a USB 3.0-capable port</p>
<b>Audio</b>	<p>This field enables or disables the integrated audio controller. By default, the <b>Enable Audio</b> option is selected.</p>
<b>Miscellaneous Devices</b>	<p>Allows you to enable or disable the following devices:</p> <ul style="list-style-type: none"> <li>Enable PCI Slot</li> <li>Enable Camera</li> <li>Enabled Secure Digital (SD) Card (default)</li> </ul> <p> <b>NOTE: All devices are enabled by default.</b></p>

# System Configuration screen options

GUID-48E0DDA9-1F94-40F9-A1F8-4C85E30B873A

Option	Description
<b>Integrated NIC</b>	<p>Allows you to configure the integrated network controller. The options are:</p> <ul style="list-style-type: none"><li>• Disabled</li><li>• Enabled</li><li>• Enabled w/PXE: This option is enabled by default.</li></ul>
<b>SATA Operation</b>	<p>Allows you to configure the internal SATA hard-drive controller. The options are:</p> <ul style="list-style-type: none"><li>• Disabled</li><li>• AHCI</li><li>• <b>RAID On</b>(default)</li></ul>
<b>Drives</b>	<p>Allows you to configure the SATA drives on board. All drives are enabled by default. The options are:</p> <ul style="list-style-type: none"><li>• SATA-0</li><li>• SATA-1</li><li>• SATA-2</li><li>• SATA-3</li><li>• M.2 PCIe SSD-0</li></ul>
<b>SMART Reporting</b>	<p>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.</p> <ul style="list-style-type: none"><li>• Enable SMART Reporting</li></ul>
<b>USB Configuration</b>	<p>This field configures the integrated USB controller. If Boot Support is enabled, the system is allowed to boot any type of USB Mass Storage Devices (HDD, memory key, floppy).</p> <p>If USB port is enabled, device attached to this port is enabled and available for OS.</p> <p>If USB port is disabled, the OS cannot see any device attached to this port.</p> <ul style="list-style-type: none"><li>• <b>Enable USB Boot Support</b> (default)</li><li>• <b>Enable Front USB Ports</b>(default)</li><li>• <b>Enable Rear USB Ports</b> (default)</li></ul> <p> <b>NOTE: USB keyboard and mouse always work in the BIOS setup irrespective of these settings.</b></p>
<b>Front USB Configuration</b>	<p>This field enables or disables the front USB configuration</p> <ul style="list-style-type: none"><li>• <b>Front Port 1 (Bottom Right)* (default)</b></li><li>• <b>Front Port 2 (Bottom Left)* (default)</b></li></ul> <p>* denotes a USB 3.0-capable port</p>
<b>Rear USB Configuration</b>	<p>This field enables or disables the front USB configuration</p> <ul style="list-style-type: none"><li>• Rear Port 1</li><li>• Rear Port 2</li><li>• Rear Port 3 (w/RJ-45)</li><li>• Rear Port 4 (w/RJ-45)</li></ul> <p>* denotes a USB 3.0-capable port</p>
<b>Audio</b>	<p>This field enables or disables the integrated audio controller. By default, the <b>Enable Audio</b> option is selected.</p>
<b>Miscellaneous Devices</b>	<p>Allows you to enable or disable the following devices:</p> <ul style="list-style-type: none"><li>• Enable PCI Slot</li><li>• Enabled Secure Digital (SD) Card (default)</li></ul>

Identifier	GUID-C99B7D28-F3BA-4D20-84E4-8494907865F7
Status	Released

## Video screen options

GUID-C99B7D28-F3BA-4D20-84E4-8494907865F7

Option	Description
<b>Multi-Display</b>	<p>This option enables or disables Multi-Display. It should be enabled for Windows 7 or later. This feature is not applicable to other operating systems.</p> <ul style="list-style-type: none"> <li>Enable Multi-Display: This option is enabled by default.</li> </ul>
<b>Primary Display</b>	<p>This option determines which video controller becomes the primary display when multiple controllers are available in the system</p> <ul style="list-style-type: none"> <li>Auto: This option is enabled by default.</li> <li>Intel HD Graphics</li> <li>NVIDIA HD Graphics</li> </ul>

Identifier	GUID-5E51D72D-7599-49A0-8CF2-7FE41D276A4A
Status	Released

## Security screen options

GUID-5E51D72D-7599-49A0-8CF2-7FE41D276A4A

Option	Description
<b>Admin Password</b>	<p>Allows you to set, change, or delete the administrator (admin) password.</p> <p><b>NOTE: You must set the admin password before you set the system or hard drive password. Deleting the admin password automatically deletes the system password and the hard drive password.</b></p> <p><b>NOTE: Successful password changes take effect immediately.</b></p> <p>Default setting: Not set</p>
<b>System Password</b>	<p>Allows you to set, change, or delete the system password.</p> <p><b>NOTE: Successful password changes take effect immediately.</b></p> <p>Default setting: Not set</p>
<b>Internal HDD-0 Password</b>	<p>Allows you to set, change, or delete the password on the system's internal hard-disk drive.</p> <p><b>NOTE: Successful password changes take effect immediately.</b></p> <p>Default Setting: Not set</p>
<b>Internal HDD-3 Password</b>	<p>Allows you to set, change, or delete the password on the system's internal hard-disk drive.</p> <p><b>NOTE: Successful password changes take effect immediately.</b></p> <p>Default Setting: Not set</p>
<b>Password Change</b>	<p>Allows you to enable the disable permission to the System and Hard Drive passwords when the admin password is set.</p> <p>Default setting: <b>Allow Non-Admin Password Changes</b> is selected.</p>
<b>UEFI Capsule Firmware Update</b>	<p>This option controls whether the system allows the BIOS updates through UEFI capsule update packages. This option is enabled by default.</p>
<b>TPM 2.0 Security</b>	<p>Allows you to enable the Trusted Platform Module (TPM) during POST. The options are:</p> <ul style="list-style-type: none"> <li><b>TPM On</b> (enabled by default)</li> </ul>

Option	Description
	<ul style="list-style-type: none"> <li>Clear</li> <li>PPI Bypass for Enabled Commands</li> <li>PPI Bypass for Disabled Commands</li> <li>PPI Bypass for Clear Command</li> <li><b>Attestation Enable</b> (enabled by default)</li> <li><b>Key Storage Enable</b> (enabled by default)</li> <li><b>SHA-256</b> (enabled by default)</li> <li>Disabled</li> <li>Enabled (enabled by default)</li> </ul> <p><b>NOTE:</b> To upgrade or downgrade TPM1.2/2.0, download the TPM wrapper tool (software).</p>
<b>Computrace</b>	<p>Allows you to activate or disable the optional Computrace software. The options are:</p> <ul style="list-style-type: none"> <li>Deactivate</li> <li>Disable</li> <li>Activate</li> </ul> <p><b>NOTE:</b> The Activate and Disable options will permanently activate or disable the feature and no further changes are allowed</p> <p>Default setting: Deactivate</p>
<b>Master Password Lockout</b>	The option Enable Master Password Lockout is not selected by default.
<b>SIMM Security Mitigation</b>	<p>Allows you to enable or disable the additional UEFI SIMM Security Mitigation protections.</p> <p>Default Setting: SIMM Security Mitigation is not selected.</p>

Identifier	GUID-A34C199F-350D-45CF-82C2-B260047517B0
Status	Released


## Secure Boot screen options

GUID-A34C199F-350D-45CF-82C2-B260047517B0

Option	Description
<b>Secure Boot Enable</b>	<p>This option enables or disables the <b>Secure Boot</b> feature.</p> <p>Default setting: Not selected</p>
<b>Secure Boot Mode</b>	<ul style="list-style-type: none"> <li><b>Deployed Mode</b> (default)</li> <li>Audit Mode</li> </ul>
<b>Expert Key Management</b>	<p>Allows you to manipulate the security key databases only if the system is in Custom Mode. The <b>Enable Custom Mode</b> option is disabled by default. The options are:</p> <ul style="list-style-type: none"> <li><b>PK</b> (default)</li> <li>KEK</li> <li>db</li> <li>dbx</li> </ul> <p>If you enable the <b>Custom Mode</b>, the relevant options for <b>PK, KEK, db, and dbx</b> appear. The options are:</p> <ul style="list-style-type: none"> <li><b>Save to File</b>—Saves the key to a user-selected file.</li> <li><b>Replace from File</b>—Replaces the current key with a key from a user-selected file.</li> <li><b>Append from File</b>—Adds a key to the current database from a user-selected file</li> <li><b>Delete</b>—Deletes the selected key</li> <li><b>Reset All Keys</b>—Resets to default setting</li> <li><b>Delete All Keys</b>—Deletes all the keys</li> </ul>



Option	Description
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 **NOTE:** If you disable the Custom Mode, all the changes made are erased and the keys restore to default settings.

Identifier	GUID-B59E19BE-5AD2-4315-B0A0-7B55E7DA6834
Status	Released

## Intel Software Guard Extensions screen options

GUID-B59E19BE-5AD2-4315-B0A0-7B55E7DA6834

Option	Description
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<b>Intel SGX Enable</b>	This field specifies you to provide a secured environment for running code/storing sensitive information in the context of the main OS. The options are:
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- Disabled
- Enabled
- **Software Controlled** (default)

<b>Enclave Memory Size</b>	This option sets <b>SGX Enclave Reserve Memory Size</b> . The options are:
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- 32 MB
- 64 MB
- 128 MB

Identifier	GUID-0308E349-3297-4BE8-B231-FD08444EB13C
Status	Released

## Performance screen options

GUID-0308E349-3297-4BE8-B231-FD08444EB13C

Option	Description
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<b>Multi Core Support</b>	This field specifies whether the process has one or all cores enabled. The performance of some applications improve with the additional cores. This option is enabled by default. Allows you to enable or disable multi-core support for the processor. The installed processor supports two cores. If you enable Multi Core Support, two cores are enabled. If you disable Multi Core Support, one core is enabled.
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- Enabled Multi Core Support (enabled by default)

<b>Intel SpeedStep</b>	Allows you to enable or disable the Intel SpeedStep feature.
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- Enable Intel SpeedStep

Default setting: The option is enabled.

<b>C-States Control</b>	Allows you to enable or disable the additional processor sleep states.
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- C states

Default setting: The option is enabled.

Identifier	GUID-9CF1D258-4847-4C38-AE0B-9306BAD21D7F
Status	Released

## Power Management screen options

GUID-9CF1D258-4847-4C38-AE0B-9306BAD21D7F

Option	Description
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<b>AC Recovery</b>	Allows you to enable or disable the computer from turning on automatically when an AC adapter is connected.
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Option	Description
	<ul style="list-style-type: none"> <li>Power Off (default)</li> <li>Power On</li> <li>Last Power State</li> </ul>
<b>Enable Intel Speed Shift Technology</b>	This option is used to enable or disable the Intel speed shift technology support. The option is enabled by default.
<b>Auto On Time</b>	<p>Allows you to set the time at which the computer must turn on automatically. The options are:</p> <ul style="list-style-type: none"> <li>Disabled</li> <li>Every Day</li> <li>Weekdays</li> <li>Select Days</li> </ul> <p>Default setting: Disabled</p>
<b>Deep Sleep Control</b>	<p>Allows you to aggressive the system is at conserving power while Shut down (S5) or in Hibernate (S4) mode.</p> <ul style="list-style-type: none"> <li>Disabled (default)</li> <li>Enabled in S5 only</li> <li>Enabled in S4 and S5</li> </ul>
<b>USB Wake Support</b>	<p>Allows you to enable USB devices to wake the system from Standby.</p> <p><b>NOTE:</b> This feature is only functional when the AC power adapter is connected. If the AC power adapter is removed during Standby, the system setup removes power from all the USB ports to conserve battery power.</p> <ul style="list-style-type: none"> <li>Enable USB Wake Support</li> </ul> <p>Default setting: The option is enabled..</p>
<b>Wake on LAN/WLAN</b>	<p>Allows you to enable or disable the feature that powers on the computer from the Off state when triggered by a LAN signal.</p> <ul style="list-style-type: none"> <li><b>Disabled:</b> This option is enabled by default.</li> <li>LAN Only</li> <li>WLAN Only</li> <li>LAN or WLAN</li> <li>LAN with PXE Boot</li> </ul>
<b>Block Sleep</b>	<p>This option lets you block entering to sleep (S3 state) in operating system environment.</p> <p>Block Sleep (S3 state)</p> <p>Default setting: This option is disabled</p>

Identifier	GUID-F6F084AF-A5EC-4E9D-8424-BFBE9D56CEBE
Status	Released

## POST Behavior screen options

GUID-F6F084AF-A5EC-4E9D-8424-BFBE9D56CEBE

Option	Description
<b>Numlock LED</b>	<p>This option specifies whether the NumLock LED should be on when the system boots.</p> <ul style="list-style-type: none"> <li>Enable Numlock LED: The option is enabled.</li> </ul>
<b>Keyboard Errors</b>	<p>This option option specifies whether the keyboard related errors are reported when it boots.</p> <ul style="list-style-type: none"> <li>Enables Keyboard Error Detection: The option is enabled by default.</li> </ul>
<b>Fastboot</b>	<p>Allows you to speed up the boot process by bypassing some of the compatibility steps. The options are:</p> <ul style="list-style-type: none"> <li>Minimal</li> </ul>

Option	Description
	<ul style="list-style-type: none"> <li>• <b>Thorough</b> (default)</li> <li>• Auto</li> </ul>
<b>Extend BIOS POST Time</b>	<p>This option created an additional pre-boot delay.</p> <ul style="list-style-type: none"> <li>• <b>0 seconds (default)</b></li> <li>• 5 seconds</li> <li>• 10 seconds</li> </ul>
<b>Full Screen Logo</b>	<p>. This option displays full screen logo if your image match screen resolution. The option Enable Full Screen Logo is not selected by default.</p>
<b>Warnings and Errors</b>	<ul style="list-style-type: none"> <li>• <b>Prompt on Warnings and Errors</b> (default)</li> <li>• Continue on Warnings</li> <li>• Continue on Warnings and Errors</li> </ul>

Identifier	GUID-9690F589-82B5-4585-B118-F254CCCBF42F
Status	Released

## Virtualization support screen options

GUID-9690F589-82B5-4585-B118-F254CCCBF42F

Option	Description
<b>Virtualization</b>	<p>Allows you to enable or disable the Intel Virtualization Technology.</p> <p>Enable Intel Virtualization Technology (default).</p>
<b>VT for Direct I/O</b>	<p>Enables or disables the Virtual Machine Monitor (VMM) from utilizing the additional hardware capabilities provided by Intel® Virtualization technology for direct I/O.</p> <p>Enable VT for Direct I/O - enabled by default.</p>

Identifier	GUID-A456D4B5-B812-473D-8B49-292DC17E6A4A
Status	Released

## Wireless screen options

GUID-A456D4B5-B812-473D-8B49-292DC17E6A4A

Option	Description
<b>Wireless Device Enable</b>	<p>Allows you to enable or disable internal wireless devices.</p> <ul style="list-style-type: none"> <li>• <b>WLAN/WiGig</b> (default)</li> <li>• <b>Bluetooth</b> (default)</li> </ul>

Identifier	GUID-4826E148-783F-4A9B-9C1F-93ED402E23ED
Status	Released

## Maintenance screen options

GUID-4826E148-783F-4A9B-9C1F-93ED402E23ED

Option	Description
<b>Service Tag</b>	<p>Displays the Service Tag of your computer.</p>
<b>Asset Tag</b>	<p>Allows you to create a system asset tag if an asset tag is not already set. This option is not set by default.</p>
<b>SERR Messages</b>	<p>This field controls the SERR message mechanism. Some graphic card required the SERR message.</p>

Option	Description
	<ul style="list-style-type: none"> <li>· Enable SERR Messages (default)</li> </ul>
<b>BIOS Downgrade</b>	This field controls flashing of the system firmware to pervious revisions. Allows BIOS Downgrade (Enabled by default)
<b>Data Wipe</b>	This field enables user to erase data from all internal storage device.
<b>BIOS Recovery</b>	Allows you to recover from certain corrupted BIOS conditions from a recover file on the user primary hard drive. Enabled by default.
<b>First Power On Date</b>	This option lets you set Ownership date. This option is disabled by default.

Identifier	GUID-50E74F50-DBCE-4D9D-8866-2A7B6B01F6B5
Status	Released

## System Log screen options

GUID-50E74F50-DBCE-4D9D-8866-2A7B6B01F6B5

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

Identifier	GUID-FCFD321A-F76F-4630-9908-DE780DD8640C
Status	Released

## Advanced configuration options

GUID-FCFD321A-F76F-4630-9908-DE780DD8640C

Option	Description
<b>ASPM</b>	Allows you to set the ASPM level. <ul style="list-style-type: none"> <li>· <b>Auto</b> (default)</li> <li>· Disabled</li> <li>· L1 Only</li> </ul>

Identifier	GUID-FFDF59C5-4C88-4A52-8861-FF0C3E0F7636
Status	Released

## SupportAssist System Resolution

GUID-FFDF59C5-4C88-4A52-8861-FF0C3E0F7636

Option	Description
<b>Auto OS Recovery Threshold</b>	Allows you to control the automatic boot flow for SupportAssist System. Options are: <ul style="list-style-type: none"> <li>· Off</li> <li>· 1</li> <li>· 2 (Enabled by default)</li> <li>· 3</li> </ul>
<b>SupportAssist OS Recovery</b>	Allows you to recover the SupportAssist OS Recovery ( Enabledby default)

Identifier	GUID-FA18A699-9F7B-4112-9322-9BF4E4C23616
Status	Released

## Software

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

### Topics:

- [Operating system](#)
- [Downloading drivers](#)
- [Intel chipset drivers](#)
- [Intel HID Event Filter](#)
- [Disk drivers](#)
- [Display adapter driver](#)
- [Bluetooth drivers](#)
- [Network drivers](#)
- [Audio drivers](#)
- [Storage drivers](#)
- [Security drivers](#)

Identifier	GUID-36032096-50A9-4A5F-92F7-275124B3338F
Status	Released

## Operating system

GUID-36032096-50A9-4A5F-92F7-275124B3338F

Operating systems supported:

- Windows 10 Home (64-bit)
- Windows 10 Professional (64-bit)
- Ubuntu
- Windows 10 national academy

Identifier	GUID-6E8E3CB8-E173-461A-975F-90DF0C9EE742
Status	Released

## Downloading drivers

GUID-6E8E3CB8-E173-461A-975F-90DF0C9EE742

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

 **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.

Identifier  
Status

GUID-9D8F7B5B-6178-4681-A26E-17DB68COD1BF  
Released

# Intel chipset drivers

GUID-9D8F7B5B-6178-4681-A26E-17DB68COD1BF

Verify if the Intel chipset drivers are already installed in the system.

- System devices
  - ACPI Fan
  - ACPI Fan
  - ACPI Fan
  - ACPI Fan
  - ACPI Fan
  - ACPI Fixed Feature Button
  - ACPI Power Button
  - ACPI Processor Aggregator
  - ACPI Thermal Zone
  - ACPI Thermal Zone
  - Composite Bus Enumerator
  - Dell Diag Control Device
  - Dell System Analyzer Control Device
  - High Definition Audio Controller
  - High Definition Audio Controller
  - High precision event timer
  - Intel(R) Management Engine Interface
  - Intel(R) Power Engine Plug-in
  - Intel(R) Xeon(R) E3 - 1200/1500 v5/6th Gen Intel(R) Core(TM) Gaussian Mixture Model - 1911
  - Intel(R) Xeon(R) E3 - 1200/1500 v5/6th Gen Intel(R) Core(TM) PCIe Controller (x16) - 1901
  - Legacy device
  - Microsoft ACPI-Compliant System
  - Microsoft System Management BIOS Driver
  - Microsoft UEFI-Compliant System
  - Microsoft Virtual Drive Enumerator
  - Microsoft Windows Management Interface for ACPI
  - Microsoft Windows Management Interface for ACPI
  - Microsoft Windows Management Interface for ACPI
  - NDIS Virtual Network Adapter Enumerator
  - Numeric data processor
  - PCI Express Root Complex
  - PCI standard host CPU bridge
  - PCI standard RAM Controller
  - PCI-to-PCI Bridge
  - Plug and Play Software Device Enumerator
  - Programmable interrupt controller
  - Remote Desktop Device Redirector Bus
  - System CMOS/real time clock
  - System timer
  - UMBus Root Bus Enumerator

Identifier	GUID-FA12AF0E-64F4-4BFE-9C84-21E577AF7A33
Status	Released

## Intel HID Event Filter

GUID-FA12AF0E-64F4-4BFE-9C84-21E577AF7A33

Verify if the Intel HID event filter is already installed in the computer.

- Human Interface Devices
  - USB Input Device
  - USB Input Device

Identifier	GUID-7F3C4362-795A-4051-B192-83127998F440
Status	Released

## Disk drivers

GUID-7F3C4362-795A-4051-B192-83127998F440

Disk drivers installed in the system

- Disk drives
  - HGST HTS721010A9E630
  - ST2000DM001-1ER164

Identifier	GUID-A2FE4857-562D-4C29-8497-3AA43BBE3B13
Status	Released

## Display adapter driver

GUID-A2FE4857-562D-4C29-8497-3AA43BBE3B13

Verify if the display adapter driver is already installed in the computer.

- Display adapters
  - AMD Radeon (TM) RX 560
  - Intel Coffee Lake UHD Graphics

Identifier	GUID-ABF077F3-C457-45CC-AD30-7F3F2D4A9EBF
Status	Released

## Bluetooth drivers

GUID-ABF077F3-C457-45CC-AD30-7F3F2D4A9EBF

This platform supports a variety of Bluetooth drivers. The following is an example

- Bluetooth
  - Microsoft Bluetooth Enumerator
  - Microsoft Bluetooth LE Enumerator
  - Microsoft Bluetooth Protocol Support Driver
  - Qualcomm QCA9565 Bluetooth 4.0

Identifier	GUID-4EF0A5BF-C343-40FE-B190-1D76B45E74D6
Status	Released

## Network drivers

GUID-4EF0A5BF-C343-40FE-B190-1D76B45E74D6

Install the WLAN and Bluetooth drivers from the Dell support site.

- Network adapters
  - Bluetooth Device (Personal Area Network)
  - Bluetooth Device (RFCOMM Protocol TDI)
  - Qualcomm QCA9565 802.11b/g/n Wireless Adapter
  - Realtek PCIe GBE Family Controller
  - WAN Miniport (IKEv2)
  - WAN Miniport (IP)
  - WAN Miniport (IPv6)
  - WAN Miniport (L2TP)
  - WAN Miniport (Network Monitor)
  - WAN Miniport (PPPOE)
  - WAN Miniport (PPTP)
  - WAN Miniport (SSTP)

Identifier	GUID-A1753B63-2255-4B68-9C80-F77444B69743
Status	Released

## Audio drivers

GUID-A1753B63-2255-4B68-9C80-F77444B69743

Verify if audio drivers are already installed in the computer.

- Sound, video and game controllers
  - AMD High Definition Audio Device
  - Intel(R) Display Audio
  - Realtek Audio

Identifier	GUID-D10C5D7E-20F8-40E6-BA8E-078CA0FD3D79
Status	Released

## Storage drivers

GUID-D10C5D7E-20F8-40E6-BA8E-078CA0FD3D79

Verify if the storage controller drivers are installed in the system.

- Storage controllers
  - Intel(R) Chipset SATA/PCIe RST Premium Controller
  - Microsoft Storage Spaces Controller





Identifier	GUID-46A8C20B-09CD-4E6A-9023-F02B8FB302B0
Status	Released

# Security drivers

GUID-46A8C20B-09CD-4E6A-9023-F02B8FB302B0

Verify if the security device drivers are installed in the computer.

- ▼  Security devices
  -  Trusted Platform Module 2.0

Identifier	GUID-BE16C181-0959-44C3-B434-E44A0A602A4C
Status	Released

## Getting help


### Topics:

- [Contacting Dell](#)

Identifier	GUID-7A3627F9-0363-4515-A1D4-1B7878F4B8C4
Status	Released

## Contacting Dell

GUID-7A3627F9-0363-4515-A1D4-1B7878F4B8C4

 **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.