

# Inspiron 7591

## Setup and Specifications



## 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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# Set up your Inspiron 7591

**NOTE:** The images in this document may differ from your computer depending on the configuration you ordered.

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



**NOTE:** To conserve battery power, the battery might enter power saving mode. Connect the power adapter and press the power button to turn on the computer.

**NOTE:** After the computer is turned on for the first time and the operating system setup is complete, it can be subsequently turned on by opening the display from the closed position.

- 2 Finish operating system setup.

## For Ubuntu:

Follow the on-screen instructions to complete the setup. For more information about installing and configuring Ubuntu, see the knowledge base articles [SLN151664](#) and [SLN151748](#) at [www.dell.com/support](http://www.dell.com/support).

## For Windows:

Follow the on-screen instructions to complete the setup. When setting up, Dell recommends that you:


- Connect to a network for Windows updates.

**NOTE:** If connecting to a secured wireless network, enter the password for the wireless network access when prompted.

- If connected to the internet, sign-in with or create a Microsoft account. If not connected to the internet, create an offline account.
- On the **Support and Protection** screen, enter your contact details.

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

**Table 1. Locate Dell apps**

Resources	Description
	My Dell

Centralized location for key Dell applications, help articles, and other important information about your computer. It also notifies you about the warranty status, recommended accessories, and software updates if available.

### SupportAssist



Pro-actively checks the health of your computer's hardware and software. The SupportAssist OS Recovery tool troubleshoots issues with the operating system. For more information, see the SupportAssist documentation at [www.dell.com/support](http://www.dell.com/support).

 **NOTE:** In SupportAssist, click the warranty expiry date to renew or upgrade your warranty.

### Dell Update



Updates your computer with critical fixes and latest device drivers as they become available. For more information about using Dell Update, see the knowledge base article [SLN305843](https://www.dell.com/support/article/SLN305843) at [www.dell.com/support](http://www.dell.com/support).

### Dell Digital Delivery



Download software applications, which are purchased but not pre-installed on your computer. For more information about using Dell Digital Delivery, see the knowledge base article [153764](https://www.dell.com/support/article/153764) at [www.dell.com/support](http://www.dell.com/support).

## Views of Inspiron 7591

### Right



1 **microSD-card slot**

Reads from and writes to the microSD-card.

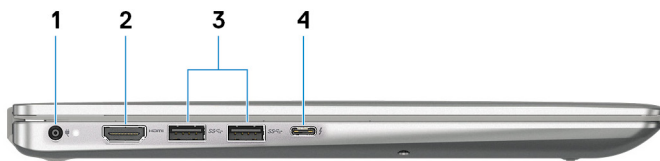
2 **USB 3.1 Gen 1 port**

Connect peripherals such as external storage devices and printers. Provides data transfer speeds up to 5 Gbps.

3 **Headset port**

Connect headphones or a headset (headphone and microphone combo).

### Left



1 **Power-adaptor port**

Connect a power adapter to provide power to your computer.

2 **HDMI port**

Connect to a TV or another HDMI-in enabled device. Provides video and audio output.

3 **USB 3.1 Gen 1 ports (2)**

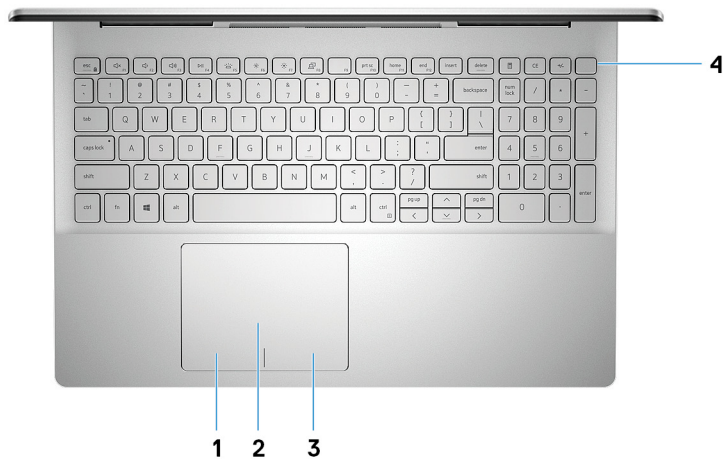
Connect peripherals such as external storage devices and printers. Provides data transfer speeds up to 5 Gbps.

4 **Thunderbolt 3 (USB Type-C) port**

Supports USB 3.1 Gen 2, DisplayPort 1.2, Thunderbolt 3 and also enables you to connect to an external display using a display adapter.

Provides data transfer rates up to 10 Gbps for USB 3.1 Gen 2 and up to 40 Gbps for Thunderbolt 3.

# Base



## 1 Left-click area

Press to left-click.

## 2 Touchpad

Move your finger on the touchpad to move the mouse pointer. Tap to left-click and two finger tap to right-click.

## 3 Right-click area

Press to right-click.

## 4 Power button with optional fingerprint reader

Press to turn on the computer if it is turned off, in sleep state, or in hibernate state.

When the computer is turned on, press the power button to put the computer into sleep state; press and hold the power button for 4 seconds to force shut-down the computer.

If the power button has a fingerprint reader, place your finger on the power button to log in.

**NOTE:** You can customize power-button behavior in Windows. For more information, see *Me and My Dell* at [www.dell.com/support/manuals](http://www.dell.com/support/manuals).

# Display



## 1 Left microphone

Provides digital sound input for audio recording and voice calls.

## 2 Camera

Enables you to video chat, capture photos, and record videos.

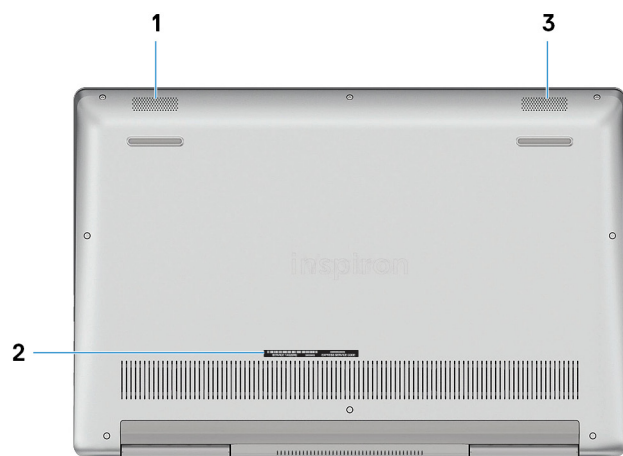
## 3 Camera-status light

Turns on when the camera is in use.

## 4 Right microphone

Provides digital sound input for audio recording and voice calls.

# Bottom



## 1 Left speaker

Provides audio output.



2 **Service Tag label**

The Service Tag is a unique alphanumeric identifier that enables Dell service technicians to identify the hardware components in your computer and access warranty information.

3 **Right speaker**

Provides audio output.

# Specifications of Inspiron 7591

## Dimensions and weight

**Table 2. Dimensions and weight**

Description	Values
Height:	
Front	17.95 mm (0.71 in.)
Rear	19.9 mm (0.78 in.)
Width	357.6 mm (14.08 in.)
Depth	238.8 mm (9.4 in.)
Weight	2.08 kg (4.59 lb)

**NOTE:** The weight of your computer depends on the configuration ordered and the manufacturing variability.

## Processors

**Table 3. Processors**

Description	Values		
Processors	9 <sup>th</sup> Generation Intel Core i5-9300H	9 <sup>th</sup> Generation Intel Core i7-9750H	9 <sup>th</sup> Generation Intel Core i9-9880H
Wattage	45 W	45 W	45 W
Core count	4	6	8
Thread count	8	12	16
Speed	Up to 4.1 GHz	Up to 4.5 GHz	Up to 4.8 GHz
Cache	8 MB	12 MB	16 MB
Integrated graphics	Intel UHD 630 Graphics	Intel UHD 630 Graphics	Intel UHD 630 Graphics

# Chipset

**Table 4. Chipset**

Description	Values
Chipset	Intel HM370
Processor	9 <sup>th</sup> Generation Intel Core i5/i7/i9
DRAM bus width	64-bit
Flash EPROM	16 MB
PCIe bus	Up to Gen 3.0

## Operating system

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

## Memory

**Table 5. Memory specifications**

Description	Values
Slots	Two-SODIMM slots
Type	Dual-channel DDR4
Speed	2666 MHz
Maximum memory	32 GB
Minimum memory	8 GB
Memory size per slot	4 GB, 8 GB, 12 GB, 16 GB, 32 GB
Configurations supported	<ul style="list-style-type: none"><li>• 8 GB DDR4 at 2666 MHz (2 x 4 GB)</li><li>• 16 GB DDR4 at 2666 MHz (2 x 8 GB)</li><li>• 16 GB DDR4 at 2666 MHz (1 x 16 GB)</li><li>• 32 GB DDR4 at 2666 MHz (2 x 16 GB)</li></ul>

## Ports and connectors

**Table 6. External ports and connectors**

External:	
USB	<ul style="list-style-type: none"><li>• Three USB 3.1 Gen 1 ports</li></ul>


## External:

	<ul style="list-style-type: none"><li>One Thunderbolt 3 (USB Type-C) port</li></ul>
Audio	One headset (headphone and microphone combo) port
Video	One HDMI 2.0 port
Media card reader	One microSD-card slot
Docking port	Not supported
Power adapter port	One 4.5 mm x 2.9 mm DC-in
Security	Not supported

**Table 7. Internal ports and connectors**

## Internal:

M.2	<ul style="list-style-type: none"><li>One M.2 2230 slot for WLAN</li><li>One M.2 2280/2230/2242 slot for Solid-State Drive (SSD)/Intel Optane</li><li>One M.2 2280 slot for PCIe SSD</li></ul>
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 **NOTE:** To learn more about the features of different types of M.2 cards, see the knowledge base article [SLN301626](#).

# Communications

## Wireless module

**Table 8. Wireless module specifications**

Description		Values
Model number	Qualcomm QCA61x4A	Intel 9560
Transfer rate	Up to 867 Mbps	Up to 1730 Mbps
Frequency bands supported	2.4 GHz/5 GHz	2.4 GHz/5 GHz
Wireless standards	<ul style="list-style-type: none"><li>Wi-Fi 802.11 a/b/g</li><li>Wi-Fi 4 (Wi-Fi 802.11n)</li><li>Wi-Fi 5 (Wi-Fi 802.11ac)</li></ul>	<ul style="list-style-type: none"><li>Wi-Fi 802.11 a/b/g</li><li>Wi-Fi 4 (Wi-Fi 802.11n)</li><li>Wi-Fi 5 (Wi-Fi 802.11ac)</li></ul>
Encryption	<ul style="list-style-type: none"><li>64-bit/128-bit WEP</li><li>AES-CCMP</li><li>TKIP</li></ul>	<ul style="list-style-type: none"><li>64-bit/128-bit WEP</li><li>AES-CCMP</li><li>TKIP</li></ul>
Bluetooth	Bluetooth 4.2	Bluetooth 5

# Audio

**Table 9. Audio specifications**

Description		Values
Controller		Realtek ALC3254
Stereo conversion		Supported
Internal interface		Intel HDA
External interface		Headset Combo Connector
Speakers		Two
Internal speaker amplifier		Supported (Audio codec built-in amplifier)
External volume controls		Keyboard shortcut controls
Speaker output:		
	Average	2 W
	Peak	2.5 W
Subwoofer output		Not supported
Microphone		Dual-array microphones

## Storage

Your computer supports one of the following configurations:

- One 2.5-inch hard-disk drive
- One M.2 2230/2280 Solid-State Drive (SSD)
- One 2.5-inch hard-drive and one M.2 2230/2280 Solid-State Drive (SSD)
- One 2.5-inch hard-drive and one M.2 2230/2280 Intel Optane storage

The primary drive of your computer varies with the storage configuration. For computers with a M.2 drive, the M.2 drive is the primary drive

**Table 10. Storage specifications**

Form factor	Interface type	Capacity
One 2.5-inch hard-disk drive	SATA AHCI, up to 6 Gbps	Up to 2 TB
One M.2 2230/2280 solid-state drive	PCIe Gen 3.0 x4 NVMe, up to 32 Gbps	Up to 512 GB
One M.2 2230/2280 Intel Optane Storage	PCIe Gen 3.0 x4 NVMe, up to 32 Gbps	Up to 512 GB

# Intel Optane memory (optional)

Intel Optane technology utilizes 3D XPoint memory technology and functions as a non-volatile storage cache/accelerator and/or storage device depending on the Intel Optane memory installed in your computer.

Your computer supports the following Intel Optane memory:

- Intel Optane Memory M15
- Intel Optane Memory H10 with solid-state storage

## Intel Optane Memory M15

Intel Optane Memory M15 functions only as a non-volatile storage cache/accelerator, enabling enhanced read/write speeds for hard-drive storage. It neither replaces nor adds to the memory (RAM) installed on your computer.

**Table 11. Intel Optane Memory M15 specifications**

Description	Values
Interface	PCIe 3.0 x2
Connector	M.2
Form factor	2280
Capacity	32 GB or 64 GB

**NOTE:** Intel Optane Memory M15 is supported on computers that meet the following requirements:

- 7<sup>th</sup> Generation or higher Intel Core i3/i5/i7 processors
- Windows 10 64-bit version or higher (Anniversary Update)
- Intel Rapid Storage Technology driver version 15.9.1.1018 or higher

## Intel Optane Memory H10 with solid-state storage

Intel Optane Memory H10 with solid-state storage functions as both a non-volatile storage cache/accelerator (enabling enhanced read/write speeds for hard-drive storage) and a solid-state storage solution. It neither replaces nor adds to the memory (RAM) installed on your computer.

**Table 12. Intel Optane Memory H10 with solid-state storage specifications**

Description	Values
Interface	PCIe 3.0 x4 <ul style="list-style-type: none"><li>• One PCIe 3.0 x2 for Optane memory</li><li>• One PCIe 3.0 x2 for solid-state storage</li></ul>
Connector	M.2
Form factor	2280
Capacity (Optane memory)	Up to 32 GB
Capacity (solid-state storage)	Up to 512 GB

**NOTE:** Intel Optane Memory H10 with solid-state storage is supported on computers that meet the following requirements:

- 9<sup>th</sup> Generation or higher Intel Core i3/i5/i7 processors
- Windows 10 64-bit version or higher (Anniversary Update)
- Intel Rapid Storage Technology driver version 15.9.1.1018 or higher

## Media-card reader

**Table 13. Media-card reader specifications**

Description	Values
Type	One SD card slot
Cards supported	Micro Secure Digital (mSD)

## Keyboard

**Table 14. Keyboard specifications**

Description	Values
Type	Backlit keyboard
Layout	QWERTY
Number of keys	<ul style="list-style-type: none"><li>• United States and Canada: 101 keys</li><li>• United Kingdom: 102 keys</li><li>• Japan: 105 keys</li></ul>
Size	X=18.70 mm key pitch Y=18.05 mm key pitch
Shortcut keys	Some keys on your keyboard have two symbols on them. These keys can be used to type alternate characters or to perform secondary functions. To type the alternate character, press Shift and the desired key. To perform secondary functions, press Fn and the desired key.

**NOTE:** You can define the primary behavior of the function keys (F1–F12) changing Function Key Behavior in BIOS setup program.

[Keyboard shortcuts](#)

## Camera

**Table 15. Camera specifications**

Description	Values
Number of cameras	One
Type	RGB HD camera

Description		Values
Location		Front camera
Sensor type		CMOS sensor technology
Resolution:		
	Still image	0.92 megapixels
	Video	1280 x 720 (HD) at 30 frames per second
Diagonal viewing angle		74.9 degrees

## Touchpad

**Table 16. Touchpad specifications**

Description		Values
Resolution:		
	Horizontal	3211
	Vertical	2431
Dimensions:		
	Horizontal	105 mm (4 in.)
	Vertical	80 mm (3 in.)

## Touchpad gestures

For more information about touchpad gestures for Windows 10, see the Microsoft knowledge base article [4027871](https://support.microsoft.com/en-us/topic/windows-10-touchpad-gestures) at [support.microsoft.com](https://support.microsoft.com).

## Power adapter

**Table 17. Power adapter specifications**

Description		Values
Type	E90W	E130W
Diameter (connector)	4.5 mm x 2.9 mm	4.5 mm x 2.9 mm
Input voltage	100 VAC x 240 VAC	100 VAC x 240 VAC
Input frequency	50 Hz x 60 Hz	50 Hz x 60 Hz
Input current (maximum)	1.5 A	2.5 A
Output current (continuous)	4.62 A	6.7 A



Description		Values
Rated output voltage	19.5 VDC	19.5 VDC
Temperature range:		
Operating	0°C to 40°C (32°F to 104°F)	0°C to 40°C (32°F to 104°F)
Storage	40°C to -40°C (104°F to -40°F)	40°C to -40°C (104°F to -40°F)

## Battery

**Table 18. Battery specifications**

Description		Values
Type	3-cell lithium-ion (56 WHr)	6-cell lithium-ion (97 WHr)
Voltage	11.4 VDC	11.4 VDC
Weight (maximum)	0.25 kg (0.55 lb)	0.37 kg (0.82 lb)
Dimensions:		
Height	223.4 mm (8.8 in.)	330.7 mm (13.02 in.)
Width	72 mm (2.83 in.)	72 mm (2.83 in.)
Depth	7.2 mm (0.28 in.)	7.2 mm (0.28 in.)
Temperature range:		
Operating	0°C to 35°C (32°F to 95°F)	0°C to 35°C (32°F to 95°F)
Storage	35°C to -40°C (95°F to -40°F)	35°C to -40°C (95°F to -40°F)
Operating time	Varies depending on operating conditions and can significantly reduce under certain power-intensive conditions.	Varies depending on operating conditions and can significantly reduce under certain power-intensive conditions.
Charging time (approximate)	4 hours (when the computer is off)	4 hours (when the computer is off)
	<b>NOTE:</b> Control the charging time, duration, start and end time, and so on using the Dell Power Manager application. For more information on the Dell Power Manager see, <i>Me and My Dell</i> on <a href="https://www.dell.com/">https://www.dell.com/</a>	<b>NOTE:</b> Control the charging time, duration, start and end time, and so on using the Dell Power Manager application. For more information on the Dell Power Manager see, <i>Me and My Dell</i> on <a href="https://www.dell.com/">https://www.dell.com/</a>
Life span (approximate)	300 discharge/charge cycles	300 discharge/charge cycles
Coin-cell battery	CR2032	CR2032
Operating time	Varies depending on operating conditions and can significantly reduce under certain power-intensive conditions.	Varies depending on operating conditions and can significantly reduce under certain power-intensive conditions.

# Display

**Table 19. Display specifications**

Description	Values	
Type	Full High Definition (FHD)	Ultra High Definition (UHD)
Panel technology	WVA (Wide View Angle)	WVA (Wide View Angle)
Luminance (typical)	300 nits	500 nits
Dimensions (Active area):		
Height	350.7 mm (13.81 in.)	350.7 mm (13.81 in.)
Width	205.7 mm (8.1 in.)	205.7 mm (8.1 in.)
Diagonal	394 mm (15.51 in.)	394 mm (15.51 in.)
Native resolution	1920 x 1080 (FHD, non-touch)	3840 x 2160 (UHD, non-touch)
Megapixels	2	8
Color gamut	72% (NTSC)	100% (Adobe)
Pixels per inch (PPI)	141	282
Contrast ratio (min)	600:1	800:1
Response time (max)	35 ms	35 ms
Refresh rate	60 Hz	60 Hz
Horizontal view angle	80/80 +/- degrees	80/80 +/- degrees
Vertical view angle	80/80 +/- degrees	80/80 +/- degrees
Pixel pitch	0.18 mm	0.09 mm
Power consumption (maximum)	6.2 W	10 W
Anti-glare vs glossy finish	Anti-glare	Anti-glare
Touch options	Not supported	Not supported

## Fingerprint reader (optional)

**Table 20. Fingerprint reader specifications**

Description	Values
Sensor technology	Capacitive
Sensor resolution	500 dpi

Description	Values
Sensor area	10.52 x 7.42 mm
Sensor pixel size	N/A

## Video

**Table 21. Video specifications**

### Discrete graphics

Controller	External display support	Memory size	Memory Type
NVIDIA GTX N18P-G0	Not supported	4 GB	GDDR5
NVIDIA GTX 1050 N17P-G0-K1	Not supported	3 GB	GDDR5

**Table 22. Video specifications**

### Integrated graphics

Controller	External display support	Memory size	Processor
Intel UHD 630 Graphics	One HDMI 2.0 port	Shared system memory	9 <sup>th</sup> Generation Intel Core i5/i7/i9

## Computer environment

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

**Table 23. Computer environment**

	Operating	Storage
Temperature range	0°C to 40°C (32°F to 104°F)	-40°C to 65°C (-40°F to 149°F)
Relative humidity (maximum)	10% to 90% (non-condensing)	0% to 95% (non-condensing)
Vibration (maximum)*	0.66 GRMS	1.3 GRMS
Shock (maximum)	140 G†	160 G‡
Altitude (maximum)	N/A	N/A

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

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

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

# Keyboard shortcuts

**NOTE:** Keyboard characters may differ depending on the keyboard language configuration. Keys used for shortcuts remain the same across all language configurations.































Some keys on your keyboard have two symbols on them. These keys can be used to type alternate characters or to perform secondary functions. The symbol shown on the lower part of the key refers to the character that is typed out when the key is pressed. If you press shift and the key, the symbol shown on the upper part of the key is typed out. For example, if you press **2**, 2 is typed out; if you press **Shift + 2**, @ is typed out.

The keys F1-F12 at the top row of the keyboard are function keys for multi-media control, as indicated by the icon at the bottom of the key. Press the function key to invoke the task represented by the icon. For example, pressing F1 mutes the audio (refer to the table below).

However, if the function keys F1-F12 are needed for specific software applications, multi-media functionality can be disabled by pressing **Fn + Esc**. Subsequently, multi-media control can be invoked by pressing **Fn** and the respective function key. For example, mute audio by pressing **Fn + F1**.

**NOTE:** You can also define the primary behavior of the function keys (F1–F12) by changing Function Key Behavior in BIOS setup program.

**Table 24. List of keyboard shortcuts**

























Function key	Redefined key (for multimedia control)	Behavior
	 + 	Mute audio
	 + 	Decrease volume
	 + 	Increase volume
	 + 	Play previous track/chapter
	 + 	Play/Pause
	 + 	Play next track/chapter
	 + 	Switch to external display
	 + 	Search
	 + 	Toggle keyboard backlight (optional)
	 + 	Decrease brightness

**NOTE:** Non-backlight keyboards have F10 function key without the backlight icon and does not support toggle keyboard backlight function.

Function key	Redefined key (for multimedia control)	Behavior
	 + 	Increase brightness

The **Fn** key is also used with selected keys on the keyboard to invoke other secondary functions.

**Table 25. List of keyboard shortcuts**



Function key	Behavior
 + 	Turn off/on wireless
 + 	Pause/Break
 + 	Sleep
 + 	Toggle scroll lock
 + 	Toggle between power and battery-status light/hard-drive activity light
 + 	System request
 + 	Open application menu
 + 	Toggle Fn-key lock
 + 	Page up
 + 	Page down
 + 	Home
 + 	End

# Getting help and contacting Dell

## Self-help resources

You can get information and help on Dell products and services using these self-help resources:

**Table 26. Self-help resources**

Self-help resources	Resource location
Information about Dell products and services	<a href="http://www.dell.com">www.dell.com</a>
My Dell	
Tips	
Contact Support	In Windows search, type <b>Contact Support</b> , and press Enter.
Online help for operating system	<a href="http://www.dell.com/support/windows">www.dell.com/support/windows</a> <a href="http://www.dell.com/support/linux">www.dell.com/support/linux</a>
Troubleshooting information, user manuals, setup instructions, product specifications, technical help blogs, drivers, software updates, and so on.	<a href="http://www.dell.com/support">www.dell.com/support</a>
Dell knowledge base articles for a variety of computer concerns.	<ol style="list-style-type: none"> <li>1 Go to <a href="http://www.dell.com/support">www.dell.com/support</a>.</li> <li>2 Type the subject or keyword in the <b>Search</b> box.</li> <li>3 Click <b>Search</b> to retrieve the related articles.</li> </ol>
Learn and know the following information about your product:	<p>See <i>Me and My Dell</i> at <a href="http://www.dell.com/support/manuals">www.dell.com/support/manuals</a>.</p> <p>To locate the <i>Me and My Dell</i> relevant to your product, identify your product through one of the following:</p> <ul style="list-style-type: none"> <li>• Select <b>Detect Product</b>.</li> <li>• Locate your product through the drop-down menu under <b>View Products</b>.</li> <li>• Enter the <b>Service Tag number</b> or <b>Product ID</b> in the search bar.</li> </ul>

## Contacting Dell

To contact Dell for sales, technical support, or customer service issues, see [www.dell.com/contactdell](http://www.dell.com/contactdell).

**NOTE:** Availability varies by country/region and product, and some services may not be available in your country/region.

**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.