

Inspiron 7501

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 7501

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: The battery may go into power-saving mode during shipment to conserve charge on the battery. Ensure that the power adapter is connected to your computer when it is turned on for the first time.

2. Finish Windows 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.

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.

Table 1. Locate Dell apps (continued)

Resources	Description
	SupportAssist Proactively 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.  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 at 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 at www.dell.com/support.

Views of Inspiron 7501

Right



1. microSD-card slot

Reads from and writes to the microSD-card. The computer supports the following card types:

- micro-Secure Digital (mSD)
- micro-Secure Digital High Capacity (mSDHC)
- micro-Secure Digital Extended Capacity (mSDXC)

2. USB 3.2 Gen 1 port

Connect devices 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. Battery-status light

Indicates the battery-charge status.

Solid yellow—Battery charge is low.

Blinking yellow—Battery charge is critical.

Off—Battery is fully charged.

3. HDMI port

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

4. USB 3.2 Gen 1 port

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

5. USB 3.2 Gen 1 (Type-C) port/DisplayPort

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

NOTE: A USB Type-C to DisplayPort adapter (sold separately) is required to connect a DisplayPort device.

Computers shipped with NVIDIA GeForce GTX 1650 Ti only



1. Power-adapter port

Connect a power adapter to provide power to your computer.

2. Battery-status light

Indicates the battery-charge status.

Solid yellow—Battery charge is low.

Blinking yellow—Battery charge is critical.

Off—Battery is fully charged.

3. HDMI port

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

4. USB 3.2 Gen 1 port

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

5. Thunderbolt 3 (USB 3.2 Gen 2 Type-C) port/DisplayPort

Supports USB 3.2 Gen 2 Type-C, DisplayPort 1.4, 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.

NOTE: A USB Type-C to DisplayPort adapter (sold separately) is required to connect a DisplayPort device.

Base



1. Power button with 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 10 seconds to force shut-down the computer.

Place your finger on the power button to log-in with the fingerprint reader.

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

2. **Right-click area**

Press to right-click.

3. **Touchpad**

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

4. **Left-click area**

Press to left-click.

Display



1. **Left microphone**

Provides digital sound input for audio recording and voice calls.

2. **Privacy shutter**

Slide the privacy shutter to cover the camera lens and protect your privacy when the camera is not in use.

3. **Camera**

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

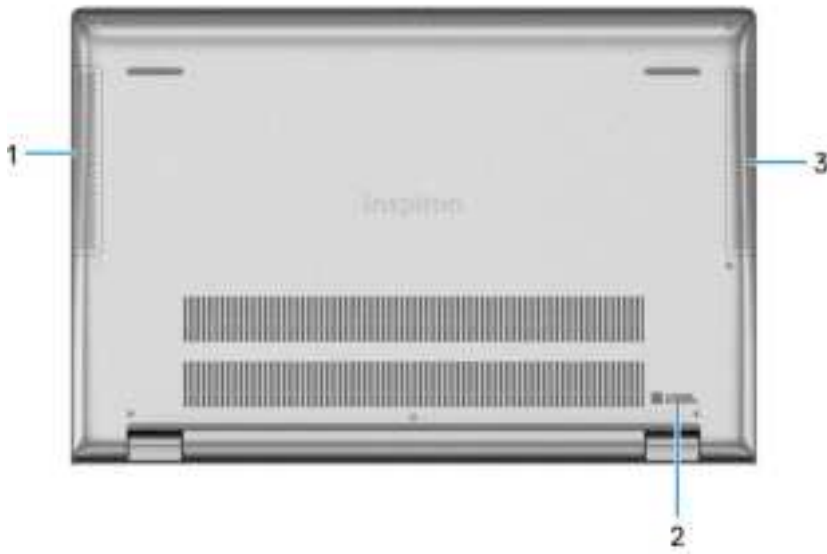
4. **Camera-status light**

Turns on when the camera is in use.

5. **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 7501

Dimensions and weight

The following table lists the height, width, depth, and weight of your Inspiron 7501.

Table 2. Dimensions and weight

Description	Values
Height:	
Front height	17.50 mm (0.68 in.)
Rear height	18.90 mm (0.74 in.)
Width	356.10 mm (14.01 in.)
Depth	234.50 mm (9.23 in.)
Weight (maximum)	1.90 kg (4.18 lb)
	 NOTE: The weight of your computer depends on the configuration ordered and manufacturing variability.

Processor

The following table lists the details of the processors supported by your Inspiron 7501.

Table 3. Processor

Description	Option one	Option two
Processor type	10th Generation Intel Core i5-10300H	10th Generation Intel Core i7-10750H
Processor wattage	45 W	45 W
Processor core count	4	6
Processor thread count	8	12
Processor speed	Up to 4.5 GHz	Up to 5 GHz
Processor cache	8 MB	12 MB
Integrated graphics	Intel UHD Graphics	Intel UHD Graphics

Chipset

The following table lists the details of the chipset supported by your Inspiron 7501.

Table 4. Chipset

Description	Values
Chipset	HM470
Processor	10th Generation Intel Core i5/i7
DRAM bus width	64-bit
Flash EPROM	16 MB
PCIe bus	Up to Gen3

Operating system

Your Inspiron 7501 supports the following operating systems:

- Windows 10 Home, 64-bit
- Windows 10 Professional, 64-bit

Memory

The following table lists the memory specifications of your Inspiron 7501.

Table 5. Memory specifications

Description	Values
Memory slots	• 8 GB Onboard memory • One SODIMM slot
Memory type	DDR4
Memory speed	2993 MHz
Maximum memory configuration	24 GB
Minimum memory configuration	8 GB
Memory configurations supported	• 8 GB Onboard memory • 8 GB, 1 x 8 GB, DDR4, 2933 MHz • 12 GB, 1 x 8 GB + 1 x 4 GB, DDR4, 2933 MHz • 16 GB, 2 x 8 GB, DDR4, 2933 MHz • 24 GB, 1 x 8 GB + 1 x 16 GB, DDR4, 2933 MHz

External ports

The following table lists the external ports on your Inspiron 7501.

Table 6. External ports

Description	Values
USB ports	- Two USB 3.2 Gen 1 ports - One USB 3.2 Gen 1(Type-C) port with DisplayPort/Power Delivery (for computers shipped with NVIDIA GeForce GTX 1650 and integrated graphics card) - One USB 3.2 Gen 2 (Type-C) port with Thunderbolt/DisplayPort/Power Delivery (for computers shipped with NVIDIA GeForce GTX 1650 Ti)
Audio port	One headset (headphone and microphone combo) port
Video port	- One HDMI 2.0 port (For discrete graphics card) - One HDMI 1.4 port (For integrated graphics card)
Media-card reader	One microSD-card slot
Docking port	Not supported
Power-adaptor port	One 4.50 mm x 2.90 mm power-adaptor port
Security	One wedge-shaped lock

Internal slots

The following table lists the internal slots of your Inspiron 7501.

Table 7. Internal slots

Description	Values
M.2	- One M.2 2280/2230 slot for Solid-State Drive (SSD)/Intel Optane - One M.2 2230/2280 slot for PCIe SSD  NOTE: To learn more about the features of different types of M.2 cards, see the knowledge base article SLN301626 at www.dell.com/support.

Wireless module

The following table lists the Wireless Local Area Network (WLAN) modules supported on your Inspiron 7501.

Table 8. Wireless module specifications

Description	Option one	Option two
Model number	Intel AX201	Intel AC9560
Transfer rate	Up to 2.40 Gbps	Up to 1.73 Gbps
Frequency bands supported	2.4 GHz/5 GHz	2.4 GHz/5 GHz

Table 8. Wireless module specifications (continued)

Description	Option one	Option two
Wireless standards	• Wi-Fi 5 (WiFi 802.11ac) • Wi-Fi 6 (WiFi 802.11ax) •	Wi-Fi 5 (WiFi 802.11ac)
Encryption	• 64-bit/128-bit WEP • AES-CCMP • TKIP	• 64-bit/128-bit WEP • AES-CCMP • TKIP
Bluetooth	Bluetooth 5.1	Bluetooth 5.1

Audio

The following table lists the audio specifications of your Inspiron 7501.

Table 9. Audio specifications

Description	Values
Audio controller	Realtek ALC3254
Stereo conversion	Supported
Internal audio interface	High-definition audio
External audio interface	Universal audio jack
Number of speakers	Two
Internal-speaker amplifier	Supported (audio codec integrated)
External volume controls	Keyboard shortcut controls
Speaker output:	
Average speaker output	2 W
Peak speaker output	2.5 W
Subwoofer output	Not supported
Microphone	Dual-array microphones

Storage

This section lists the storage options on your Inspiron 7501.

Your Inspiron 7501 supports one of the following storage configurations:

- One M.2 2230/2280 solid-state drive
- One M.2 2230 solid-state drive and one M.2 2280 solid-state drive

The primary drive of your Inspiron 7501 varies with the storage configuration. For computers:

- with an M.2 drive, the M.2 drive is the primary drive
- without an M.2 drive, the 2.5-inch drive is the primary drive

Table 10. Storage specifications

Storage type	Interface type	Capacity
M.2 2230 solid-state drive	PCIe Gen3 NVMe	256 GB or 512 GB
M.2 2280 solid-state drive	PCIe Gen3 NVMe	256 GB, 512 GB, 1 TB, or 2 TB
M.2 2280, PCIe QLC NVMe, solid-state drive	PCIe Gen3 NVMe	512 GB
M.2 2280 Intel Optane storage	PCIe Gen3 NVMe	512 GB

Intel Optane Memory H10 with solid-state storage (optional)

Intel Optane Memory 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.

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 11. Intel Optane Memory H10 with solid-state storage specifications

Description	Values
Interface	PCIe Gen3 x4 NVMe - One PCIe Gen3 x2 for Optane memory - One PCIe Gen3 x2 for solid-state storage
Connector	M.2
Form factor	2280
Capacity (Intel Optane memory)	32 GB
Capacity (solid-state storage)	512 GB

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

- 9th 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

The following table lists the media cards supported by your Inspiron 7501.

Table 12. Media-card reader specifications

Description	Values
Media-card type	One microSD-card slot
Media-cards supported	- micro-Secure Digital (mSD) - micro-Secure Digital High Capacity (mSDHC) - micro-Secure Digital Extended Capacity (mSDXC)

Table 12. Media-card reader specifications (continued)

Description	Values
 NOTE: The maximum capacity supported by the media-card reader varies depending on the standard of the media card installed in your computer.	

Keyboard

The following table lists the keyboard specifications of your Inspiron 7501.

Table 13. Keyboard specifications

Description	Values
Keyboard type	- Standard keyboard - Backlit keyboard
Keyboard layout	QWERTY
Number of keys	- United States and Canada: 103 keys - United Kingdom: 104 keys - Japan: 107 keys
Keyboard size	X=18.7 mm key pitch Y=18.05 mm key pitch
Keyboard shortcuts	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. For more information, see Keyboard shortcuts.

Camera

The following table lists the camera specifications of your Inspiron 7501.

Table 14. Camera specifications

Description	Values
Number of cameras	One
Camera type	RGB HD camera
Camera location	Front camera
Camera sensor type	CMOS sensor technology
Camera resolution:	
Still image	0.92 megapixel
Video	1280 x 720 (HD) at 30 fps

Table 14. Camera specifications (continued)

Description	Values
Diagonal viewing angle:	74.9 degrees

Touchpad

The following table lists the touchpad specifications of your Inspiron 7501.

Table 15. Touchpad specifications

Description	Values
Touchpad resolution:	
Horizontal	1229
Vertical	749
Touchpad dimensions:	
Horizontal	115 mm (4.52 in.)
Vertical	80 mm (3.15 in.)
Touchpad gestures	For more information about touchpad gestures available on Windows 10, see the Microsoft knowledge base article 4027871 at support.microsoft.com .

Power adapter

The following table lists the power adapter specifications of your Inspiron 7501.

Table 16. Power adapter specifications

Description	Option one	Option two
Type	90 W	130 W
Connector dimensions:		
External diameter	4.50 mm	4.50 mm
Internal diameter	2.90 mm	2.90 mm
Input voltage	100 VAC–240 VAC	100 VAC–240 VAC
Input frequency	50 Hz–60 Hz	50 Hz–60 Hz
Input current (maximum)	1.50 A	2.50 A
Output current (continuous)	4.62 A	6.70 A
Rated output voltage	19.50 VDC	19.50 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 70°C (-40°F to 158°F)	-40°C to 70°C (-40°F to 158°F)

Battery

The following table lists the battery specifications of your Inspiron 7501.

Table 17. Battery specifications

Description		Option one	Option two
Battery type		3-cell "smart" lithium ion (56 WHr)	6-cell "smart" lithium ion (97 WHr)
Battery voltage		11.40 VDC	11.40 VDC
Battery weight (maximum)		0.25 kg (0.55 lb)	0.37 kg (0.82 lb)
Battery dimensions:			
	Height	223.40 mm (8.80 in.)	330.7 mm (13.02 in.)
	Width	72 mm (2.83 in.)	72 mm (2.83 in.)
	Depth	7.20 mm (0.28 in.)	7.20 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)
Battery 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.
Battery charging time (approximate)		4 hours (when the computer is off) i NOTE: 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 www.dell.com/	4 hours (when the computer is off) i NOTE: 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 www.dell.com/
Coin-cell battery		CR2032	CR2032

Display

The following table lists the display specifications of your Inspiron 7501.

Table 18. Display specifications

Description		Option one	Option two
Display type		Full High Definition (FHD)	Full High Definition (FHD)
Display-panel technology		Wide Viewing Angle (WVA)	Wide Viewing Angle (WVA)
Display-panel dimensions (active area):			
	Height	193.60 mm (7.62 in.)	193.60 mm (7.62 in.)
	Width	344.20 mm (13.55 in.)	344.20 mm (13.55 in.)

Table 18. Display specifications (continued)

Description		Option one	Option two
	Diagonal	395 mm (15.55 in.)	395 mm (15.55 in.)
Display-panel native resolution		1920 x 1080	1920 x 1080
Luminance (typical)		300 nits	220 nits
Megapixels		2	2
Color gamut		sRGB 100%(typ)	NTSC 45% (typ)
Pixels Per Inch (PPI)		142	142
Contrast ratio (min.)		600:1	400:1
Response time (max.)		35 ms	35 ms
Refresh rate		60 Hz	60 Hz
Horizontal view angle		+/- 85 degrees	+/- 80 degrees
Vertical view angle		+/- 85 degrees	+/- 80 degrees
Pixel pitch		0.18 mm	0.18 mm
Power consumption (maximum)		4.20 W	4.20 W
Anti-glare vs glossy finish		Anti-glare	Anti-glare
Touch options		No	Yes

Fingerprint reader

The following table lists the fingerprint-reader specifications of your Inspiron 7501.

 **NOTE:** The fingerprint reader is located on the power button.

Table 19. Fingerprint reader specifications

Description	Values
Fingerprint-reader sensor technology	Capacitive
Fingerprint-reader sensor resolution	500 dpi
Fingerprint-reader sensor pixel size	108 x 88

GPU—Integrated

The following table lists the specifications of the integrated Graphics Processing Unit (GPU) supported by your Inspiron 7501.

Table 20. GPU—Integrated

Controller	External display support	Memory size	Processor
Intel UHD Graphics	One HDMI 1.4 port and one USB 3.2 Gen 2 (Type-C) port with DisplayPort	Shared system memory	10th Generation Intel Core i5/i7

GPU—Discrete

The following table lists the specifications of the discrete Graphics Processing Unit (GPU) supported by your Inspiron 7501.

Table 21. GPU—Discrete

Controller	External display support	Memory size	Memory type
Nvidia GeForce GTX 1650	One HDMI 2.0 port and one USB 3.2 Gen 2 (Type-C) port with DisplayPort	4 GB	GDDR6
Nvidia GeForce GTX 1650 Ti	One HDMI 2.0 port, one Mini DisplayPort, and one Thunderbolt 3 port	4 GB	GDDR6

Operating and storage environment

This table lists the operating and storage specifications of your Inspiron 7501.

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

Table 22. Computer environment

Description	Operating	Storage
Temperature range	0°C to 35°C (32°F to 95°F)	-40°C to 65°C (-40°F to 149°F)
Relative humidity (maximum)	10% to 90% (non-condensing)	0% to 95% (non-condensing)
Vibration (maximum)*	0.66 GRMS	1.30 GRMS
Shock (maximum)	110 G†	160 G†
Altitude range	-15.2 m to 3048 m (-49.87 ft to 10000 ft)	-15.2 m to 10668 m (-49.87 ft to 35000 ft)

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

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

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 23. List of keyboard shortcuts

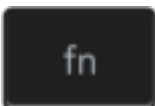
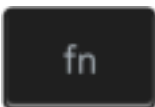
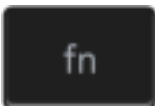
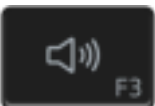
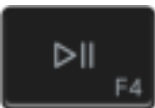
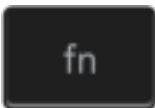
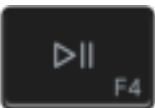
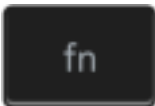
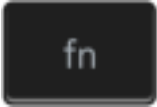
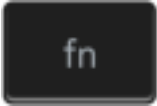
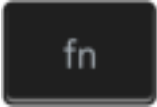
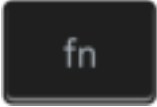
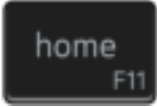
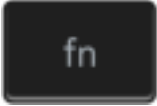
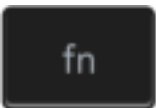
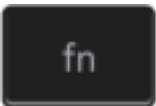
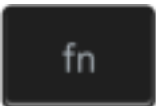
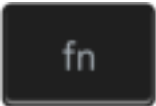
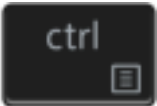
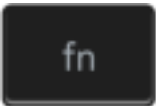
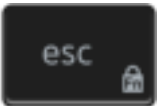
Function key	Redefined key (for multimedia control)	Behavior
 F1	 +  F1	Mute audio
 F2	 +  F2	Decrease volume
 F3	 +  F3	Increase volume
 F4	 +  F4	Play/Pause
 F5	 +  F5	Toggle keyboard backlight (optional) NOTE: Non-backlight keyboards have F5 function key without the backlight icon and does not support toggle keyboard backlight function.
 F6	 +  F6	Decrease brightness

Table 23. List of keyboard shortcuts (continued)

Function key	Redefined key (for multimedia control)	Behavior
	 + 	Increase brightness
	 + 	Switch to external display
	 + 	Print screen
	 + 	Home
	 + 	End

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

Table 24. List of keyboard shortcuts

Function key	Behavior
 + 	Pause/Break
 + 	Toggle scroll lock
 + 	System request
 + 	Open application menu
 + 	Toggle Fn-key lock

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 25. Self-help resources

Self-help resources	Resource location
Information about Dell products and services	www.dell.com
My Dell app	
Tips	
Contact Support	In Windows search, type <code>Contact Support</code> , and press Enter.
Online help for operating system	www.dell.com/support/windows
Access top solutions, diagnostics, drivers and downloads, and learn more about your computer through videos, manuals and documents.	Your Dell computer is uniquely identified by a Service Tag or Express Service Code. To view relevant support resources for your Dell computer, enter the Service Tag or Express Service Code at www.dell.com/support. For more information on how to find the Service Tag for your computer, see Locate the Service Tag for your Dell Laptop.
Dell knowledge base articles for a variety of computer concerns	1. Go to www.dell.com/support. 2. On the menu bar at the top of the Support page, select Support > Knowledge Base. 3. In the Search field on the Knowledge Base page, type the keyword, topic, or model number, and then click or tap the search icon to view the related articles.

Contacting Dell

To contact Dell for sales, technical support, or customer service issues, see 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 about your purchase invoice, packing slip, bill, or Dell product catalog.