Vostro 15 7510

Setup and Specifications



Notes, cautions, and warnings

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

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

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

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Set up your Vostro 15 7510

- i 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.
- 2. Finish operating system setup.

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
	Dell Product Registration Register your computer with Dell.

Table 1. Locate Dell apps (continued)

Resources	Description
	Dell Help & Support Access help and support for your computer.
	SupportAssist
∞	SupportAssist is the smart technology that keeps your computer running at its best by optimizing settings, detecting issues, removing viruses and notifies when you need to make system updates. SupportAssist proactively checks the health of your system's hardware and software. When an issue is detected, the necessary system state information is sent to Dell to begin troubleshooting. SupportAssist is preinstalled on most of the Dell devices running Windows operating system. For more information, see SupportAssist for Home PCs User's Guide on www.dell.com/serviceabilitytools. i NOTE: In SupportAssist, click the warranty expiry date to renew or upgrade your warranty.
	<u>'</u>
₹Ø	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 Vostro 15 7510

Topics:

- Right
- Left
- Top
- Front
- Bottom
- Battery charge and status LED

Right



1. Universal audio jack

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

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. SD-card slot

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

- Secure Digital (SD)
- Secure Digital High Capacity (SDHC)
- Secure Digital Extended Capacity (SDXC)

4. Air vents

Air is blown out by the internal fans through the air vents.

NOTE: To prevent the computer from overheating, ensure that the air vents are not blocked when the computer is running.

Left



1. Power-adapter port

Connect a power adapter to provide power to your computer and charge the battery.

2. Air vents

Air is blown out by the internal fans through the air vents.

NOTE: To prevent the computer from overheating, ensure that the air vents are not blocked when the computer is running.

3. **HDMI 2.0 port**

Connect to a TV, external display 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 4.0 port with Power Delivery

Supports USB4, DisplayPort 1.4, Thunderbolt 4 and also enables you to connect to an external display using a display adapter. Provides data transfer rates of up to 40 Gbps for USB4 and Thunderbolt 4.

- NOTE: You can connect a Dell Docking Station to the Thunderbolt 4 ports. For more information, see the knowledge base article SLN286158 at www.dell.com/support.
- i) NOTE: A USB Type-C to DisplayPort adapter (sold separately) is required to connect a DisplayPort device.
- i) NOTE: USB4 is backward compatible with USB 3.2, USB 2.0, and Thunderbolt 3.
- i NOTE: Thunderbolt 4 supports two 4K displays.

6. Power and battery-status light

Indicates the power state and battery state of the computer.

Solid white—Power adapter is connected and the battery is charging.

Solid amber—Battery charge is low or critical.

Off—Battery is fully charged.

NOTE: On certain computer models, the power and battery-status light are also used for diagnostics. For more information, see the *Troubleshooting* section in your computer's *Service Manual*.

Top



1. 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.

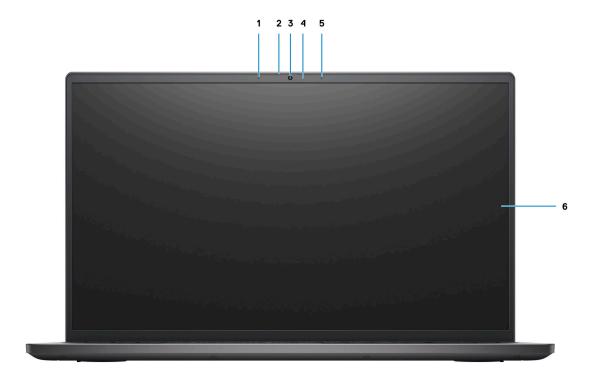
If the power button has a fingerprint reader, place your finger on the power button to \log in.

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

2. Touchpad

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

Front



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

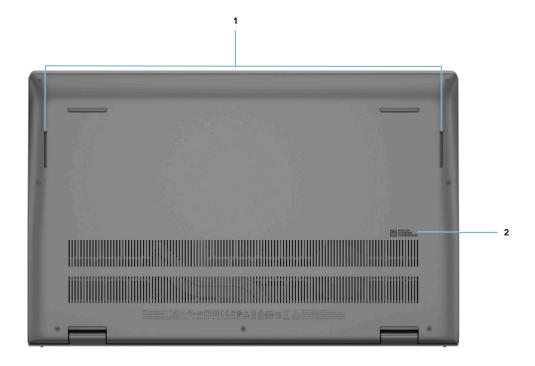
Turns on when the camera is in use.

5. Right microphone

Provides digital sound input for audio recording and voice calls.

6. LCD panel

Bottom



1. Left and right speakers

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.

Battery charge and status LED

Table 2. Battery charge and status LED Indicator

Power Source	LED Behavior	computer Power State	Battery Charge Level
AC Adapter	Off	S0 - S5	Fully Charged
AC Adapter	Solid White	S0 - S5	< Fully Charged
Battery	Off	S0 - S5	11-100%
Battery	Solid Amber (590+/-3 nm)	S0 - S5	< 10%

- S0 (ON) Computer is turned on.
- S4 (Hibernate) The computer consumes the least power compared to all other sleep states. The computer is almost at an OFF state, expect for a trickle power. The context data is written to hard drive.
- S5 (OFF) The computer is in a shutdown state.

Specifications of Vostro 15 7510

Topics:

- Dimensions and weight
- Processor
- Chipset
- Operating system
- Memory
- External ports
- Internal slots
- Communications
- Audio
- Storage
- Media-card reader
- Keyboard
- Camera
- Touchpad
- Power adapter
- Battery
- Display
- Fingerprint reader (optional)
- GPU—Integrated
- GPU—Discrete
- Operating and storage environment

Dimensions and weight

The following table lists the height, width, depth, and weight of your Vostro 15 7510.

Table 3. Dimensions and weight

Description	Values
Height:	
Front height	16.72 mm (0.65 in.)
Rear height	18.99 mm (0.74 in.)
Width	356.06 mm (14.01 in.)
Depth	228.90 mm (9.01 in.)
Weight i NOTE: The weight of your computer depends on the configuration ordered and manufacturing variability.	 Minimum weight - 1.86 kg (4.10 lb) Maximum weight - 1.90 kg (4.19 lb)

Processor

The following table lists the details of the processors supported by your Vostro 15 7510.

Table 4. Processor

Description	Option one	Option two
Processor type	11 th Generation Intel Core i5-11400H	11 th Generation Intel Core i7-11800H
Processor wattage	45 W	45 W
Processor core count	6	8
Processor thread count	12	16
Processor speed	2.70 GHz to 4.50 GHz	2.30 GHz to 4.60 GHz
Processor cache	12 MB	24 MB
Integrated graphics	Intel UHD Graphics	Intel UHD Graphics

Chipset

The following table lists the details of the chipset supported by your Vostro 15 7510.

Table 5. Chipset

Description	Values
Chipset	Integrated
Processor	11 th Generation Intel Core i5/i7 Processors
DRAM bus width	64-bit
Flash EPROM	32 MB
PCle bus	Up to Gen4

Operating system

Your Vostro 15 7510 supports the following operating systems:

- Windows 11 Home, 64-bit
- Windows 11 Pro, 64-bit
- Windows 11 Pro National Academic, 64-bit
- Windows 10 Home, 64-bit
- Windows 10 Pro, 64-bit

Memory

The following table lists the memory specifications of your Vostro 15 7510.

Table 6. Memory specifications

Description	Values	
Memory slots	Two-SODIMM slots	
Memory type	DDR4	
Memory speed	3200 MHz	
Maximum memory configuration	32 GB	
Minimum memory configuration	4 GB	
Memory size per slot	4 GB, 8 GB, 16 GB	
Memory configurations supported	 4 GB, 1 x 4 GB, DDR4 8 GB, 1 x 8 GB, DDR4 8 GB, 2 x 4 GB, DDR4, dual-channel 12 GB, 1 x 4 GB + 1 x 8 GB, DDR4 16 GB, 1 x 16 GB, DDR4 16 GB, 2 x 8 GB, DDR4, dual-channel 32 GB, 2 x 16 GB, DDR4, dual-channel 	

External ports

The following table lists the external ports of your Vostro 15 7510.

Table 7. External ports

Description	Values
Network port	None
USB ports	 One ThunderBolt 4 port with DisplayPort 1.4 and Power Delivery Two USB 3.2 Gen 1 ports
Audio port	One Universal audio jack
Video port	One HDMI 2.0 port
Media-card reader	One standard SD-card reader
Power-adapter port	One DC-in port
Security-cable slot	None

Internal slots

The following table lists the internal slots of your Vostro 15 7510.

Table 8. Internal slots

Description	Values
M.2	 One M.2 2230 slot for Wi-Fi and Bluetooth combo card One M.2 2230/2280 slot for solid-state drive One M.2 2230 slot for solid-state drive i NOTE: To learn more about the features of different types of M.2 cards, see the knowledge base article 000144170 at www.dell.com/support.

Communications

Wireless module

The following table lists the wireless module specifications of your Vostro 15 7510:

Table 9. Wireless module specifications

Description	Values
Model number	Intel Wi-Fi 6 AX201
Transfer rate	2.40 Gbps
Frequency bands supported	2.40 GHz/5 GHz
Wireless standards	 WiFi 802.11a/b/g Wi-Fi 4 (Wi-Fi 802.11n) Wi-Fi 5 (Wi-Fi 802.11ac) Wi-Fi 6 (WiFi 802.11ax)
Encryption	64-bit/128-bit WEP AES-CCMP TKIP
Bluetooth	Bluetooth 5.2

Audio

The following table lists the audio specifications of your Vostro 15 7510.

Table 10. Audio specifications

Description	Values
Audio controller	ALC3204
Stereo conversion	Supported
Internal audio interface	High definition audio

Table 10. Audio specifications (continued)

Description		Values
External audio interface		Universal audio jack
Number of speakers		Two
Internal-speaker amplif	ier	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 Vostro 15 7510.

Your computer supports one of the following configurations:

- M.2 drive x1
- M.2 drive x2

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

Table 11. Storage specifications

Storage type	Interface type	Capacity
M.2 2230, Class 35 solid-state drive	PCle NVMe Gen3 x4	Up to 1 TB
M.2 2280, Class 40 solid-state drive	PCle NVMe Gen3 x4	Up to 1 TB
M.2 2280, Class 40 solid-state drive	PCle NVMe Gen4 x4	2 TB
M.2 2280, QLC solid-state drive	PCIe NVMe Gen3 x4	Up to 1 TB

Media-card reader

The following table lists the media cards supported by your Vostro 15 7510.

Table 12. Media-card reader specifications

Description	Values
Media-card type	One SD card
Media-cards supported	Secure Digital (SD)

(i) 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 Vostro 15 7510.

Table 13. Keyboard specifications

Description	Values
Keyboard type	Backlit keyboard
Keyboard layout	QWERTY
Number of keys	United States and Canada: 99 keysUnited Kingdom: 100 keysJapan: 103 keys
Keyboard size	X=18.70 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. (i) NOTE: You can define the primary behavior of the function keys (F1–F12) changing Function Key Behavior in BIOS setup program.

Camera

The following table lists the camera specifications of your Vostro 15 7510.

Table 14. Camera specifications

Description		Values
Num	ber of cameras	One
Camera type		HD RGB camera
Cam	era location	Front camera
Camera sensor type		CMOS sensor technology
Camera resolution:		
	Still image	0.92 megapixel
	Video	1280 x 720 (HD) at 30 fps
Diag	onal viewing angle:	74.90 degrees

Touchpad

The following table lists the touchpad specifications of your Vostro 15 7510.

Table 15. Touchpad specifications

Description		Values
Touchpad resolution:		>300 dpi
Touchpad dimensions:		
	Horizontal	115 mm (4.53 in.)
	Vertical	80 mm (3.15 in.)
Touchpad gestures		For more information about touchpad gestures available on Windows, see the Microsoft knowledge base article 4027871 at support.microsoft.com.

Power adapter

The following table lists the power adapter specifications of your Vostro 15 7510.

Table 16. Power adapter specifications

Description		Values
Туре		130 W, Barrel type
Connector dimensions:	:	
External diame	eter	4.50 mm
Internal diame	ter	2.90 mm
Input voltage		100 VAC x 240 VAC
Input frequency		50 Hz x 60 Hz
Input current (maximum)		1.80 A
Output current (continuous)		3.34 A
Rated output voltage		19.50 VDC
Temperature range:		
Operating		0°C to 40°C (32°F to 104°F)
Storage		-40°C to 70°C (-40°F to 158°F)

Battery

The following table lists the battery specifications of your Vostro 15 7510.

Table 17. Battery specifications

Description	Option one	Option two
Battery type	3-cell, 56 Wh polymer	6-cell, 86 Wh polymer

Table 17. Battery specifications (continued)

Description		Option one	Option two
		NOTE: Battery is a Field Replaceable Unit (FRU).	
Battery voltage		11.40 VDC	11.40 VDC
Battery v	weight (maximum)	0.25 kg (0.55 lb)	0.34 kg (0.75 lb)
Battery o	dimensions:		
	Height	294.90 mm (11.61 in.)	294.90 mm (11.61 in.)
	Width	77.50 mm (3.05 in.)	77.50 mm (3.05 in.)
	Depth	7.56 mm (0.29 in.)	7.56 mm (0.29 in.)
Tempera	ture range:		
	Operating	0°C (32°F) to 35°C (95°F)°C	0°C (32°F) to 35°C (95°F)
	Storage	-20°C (-4°F) to 65°C (149°F)°C	-20°C (-4°F) to 65°C (149°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) (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 Me and My Dell on www.dell.com.		4 hours (when the computer is off)	4 hours (when the computer is off)
Approximate life span (discharge/charge		300 cycles at room temperature	300 cycles at room temperature
cycles) ExpressC	Charge	Supported	Supported
		i NOTE: Dell Technologies recommends that you charge the battery regularly for optimal power consumption. If your battery charge is completely depleted, connect the power adapter, turn on your computer, and then restart your computer to reduce the power consumption. CAUTION: Operating and storage temperature ranges may differ among components, so operating or storing the device outside these ranges may impact the performance of specific components.	

Display

The following table lists the display specifications of your Vostro 15 7510.

Table 18. Display specifications

Description	Values
Display type	Full High Definition (FHD), ComfortView Plus

Table 18. Display specifications (continued)

Description	Values
Display-panel technology	Wide-viewing angle
Display-panel dimensions (active area):	
Height	193.60 mm (7.62 in.)
Width	344.20 mm (13.55 in.)
Diagonal	394.90 mm (15.60 in.)
Display-panel native resolution	1920 x 1080
Luminance (typical)	300 nits
Megapixels	2.07
Color gamut	100% sRGB typical
Pixels Per Inch (PPI)	141
Contrast ratio (min)	800:1
Response time (max)	35 ms
Refresh rate	60 Hz
Horizontal view angle	80 minimum
Vertical view angle	80 minimum
Pixel pitch	0.179 mm x 0.179 mm
Power consumption (maximum)	4.40 W
Anti-glare vs glossy finish	Anti-glare
Touch options	No

Fingerprint reader (optional)

The following table lists the specifications of the optional fingerprint-reader of your Vostro 15 7510.

Table 19. Fingerprint reader specifications

Description	Values
Fingerprint-reader sensor technology	Trans-capacitive sensing
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 Vostro 15 7510.

Table 20. GPU—Integrated

Controller	External display support	Memory size	Processor
Intel UHD Graphics	One HDMI 2.0	Shared system memory	11 th Generation Intel Core i5/i7

GPU—Discrete

The following table lists the specifications of the discrete Graphics Processing Unit (GPU) supported by your Vostro 15 7510.

Table 21. GPU—Discrete

Controller	Memory size	Memory type
NVIDIA GeForce GTX 1650	4 GB	GDDR6
NVIDIA GeForce RTX 3050	4 GB	GDDR6
NVIDIA GeForce RTX 3050 Ti	4 GB	GDDR6

Operating and storage environment

This table lists the operating and storage specifications of your Vostro 15 7510.

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 (4.64 ft to 10000 ft)	-15.2 m to 10668 m (4.64 ft to 35000 ft)

CAUTION: Operating and storage temperature ranges may differ among components, so operating or storing the device outside these ranges may impact the performance of specific components.

^{*} 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.

Dell ComfortView

CAUTION: Prolonged exposure to blue light, particularly from digital sources, may disrupt sleep patterns and cause long-term effects such as eye strain, eye fatigue, or damage to the eyes.

Blue light is a color in the white light spectrum which has a short wavelength and high frequency. Chronic exposure to blue light, particularly from digital sources, may disrupt sleep patterns and change our body's Circadian rhythm. Using the computer for an extended period may also cause fatigue in other body parts such as the neck, arm, back, and shoulder.

Dell low blue light displays optimize eye comfort with a flicker-free screen. The ComfortView feature reduces the amount of blue light emitted from the monitor to optimize eye comfort. ComfortView mode can be enabled and configured using the **Dell CinemaColor** (DCC) application. Dell ComfortView is certified by TÜV.

Dell CinemaColor

Dell CinemaColor (DCC) combines the hardware and software to deliver clear visuals that appear every bit as vibrant as the world around you. The DCC has four color profiles that optimize these settings depending on the content and your surroundings.

When you open DCC, you can choose **Movie (default)**, **ComfortView**, **Sports**, or **Animation** from the list. The ComfortView Profile optimizes eye comfort with a Low Blue Light software solution that meets TÜV standards to reduce harmful blue light emissions to make extended screen time easy on your eyes compared to standard digital panels while still retaining the vibrant colors.

ComfortView mode is certified by TÜV for the effective reduction of hazardous blue light by adjusting display parameters. You can adjust the Saturation, Temperature, and Contrast values to create your custom setting in the ComfortView mode.

NOTE: For more information on DellCinema components see KB article 000178241 at https://www.dell.com/support.

ComfortView Plus

ComfortView Plus is a built-in, always-on, and virtually unnoticeable low blue light solution for Dell displays. ComfortView Plus employs a hardware-based design that allows for a wider blue spectrum, with a much lower peak and reduced intensity. Dell ComfortView Plus is certified by TÜV certified - low blue light hardware solution.

(i) NOTE: ComfortView Plus is an optional hardware feature to be configured at the point of sale.

To reduce the risk of eye strain, it is also recommended that you:

- Position the display at a comfortable viewing distance between 20 in. to 28 in. (50 cm and 70 cm) from your eyes.
- Blink frequently to moisten your eyes, wet your eyes with water, or apply suitable eye drops.
- Look away from your display, and gaze at a distant object at 20 ft (609.60 cm) away for at least 20 seconds during each break.
- Take an extended break for 20 minutes every two hours.

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 \mathbf{fn} + \mathbf{Esc} . Subsequently, multi-media control can be invoked by pressing \mathbf{fn} and the respective function key. For example, mute audio by pressing \mathbf{fn} + $\mathbf{F1}$.

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	Re-defined key (for multi-media control)	Behavior
F1	fn + F1	Mute audio
F2	fn + F2	Decrease volume
F3	fn + F3	Increase volume
F4	fn + F4	Play/Pause
F5	fn + F5	Toggle keyboard backlight (optional)
F6	fn + F6	Decrease brightness
F7	fn + F7	Increase brightness
F8	fn + F8	Switch to external display
F10	fn + F10	Print screen
F11	fn + F11	Home
F12	fn + F12	End

The \mathbf{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
fn + B	Pause/Break
fn + H	Toggle between power light and battery-status light
fn + S	Toggle scroll lock
fn + R	System request
fn + ctrl	Open application menu
fn + esc	Toggle fn-key lock
fn + page up	Page up

Table 24. List of keyboard shortcuts (continued)

Function key	Behavior
fn + page down	Page down

Getting help

Topics:

Contacting Dell

Contacting Dell

NOTE: If you do not have an active Internet connection, you can find contact information on your purchase invoice, packing slip, bill, or Dell product catalog.

Dell provides several online and telephone-based support and service options. Availability varies by country and product, and some services may not be available in your area. To contact Dell for sales, technical support, or customer service issues:

- 1. Go to Dell.com/support.
- 2. Select your support category.
- 3. Verify your country or region in the Choose a Country/Region drop-down list at the bottom of the page.
- 4. Select the appropriate service or support link based on your need.