# Latitude 3520

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 Latitude 3520

#### About this task

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

#### Steps

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 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.

#### 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

Table 1. Locate Dell apps

Resources	Description
	Dell Product Registration Register your computer with Dell.
	Dell Help & Support  Access help and support for your computer.
	SupportAssist
<b>6</b> €	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.
	'
<b>L</b> O	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 Latitude 3520

# **Right**



- 1. Micro-SIM card slot (Optional)
- 2. MicroSD-card slot
- 3. Universal audio port
- 4. USB 2.0 port
- 5. USB 3.2 Gen 1 port
- 6. Network port
- 7. Network activity LED
- 8. Wedge-shaped lock slot

### Left



- 1. DC-in port
- 3. HDMI 1.4a port

- 2. Power LED
- 4. USB 3.2 Gen 1 with PowerShare

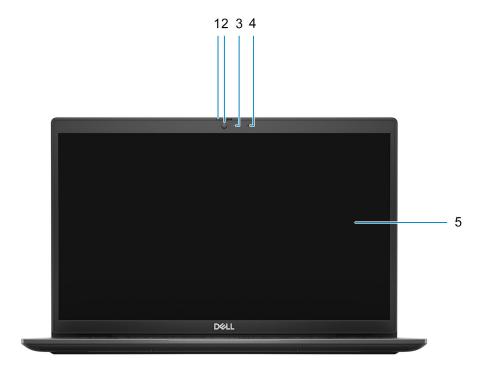
- USB 3.2 Gen 2x2 Type-C port with DisplayPort Alt Mode and Power Delivery
  - NOTE: System's shipped with 10<sup>th</sup> Generation Intel processors will support USB 3.2 Gen 2 Type-C port with DP Alt Mode and Power Delivery.

### Top



- 1. Power button with optional fingerprint reader
- 2. Keyboard
- 3. Touchpad

### **Front**



- 1. Privacy shutter (Optional)
- 2. Camera
- 3. Camera status light
- 4. Microphone
- 5. LCD Panel

### **Bottom**



- 1. Speakers
- 2. Service tag location
- 3. Air vent

### **LED Indicators and Characteristics**

### **Battery Charge and Status LED**

Table 2. Battery Charge and Status LED Indicator

Power Source	LED Behavior	System 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) System is turned on.
- S4 (Hibernate) The system consumes the least power compared to all other sleep states. The system is almost at an OFF state, expect for a trickle power. The context data is written to hard drive.
- S5 (OFF) The system is in a shutdown state.

# **Specifications of Latitude 3520**

# **Dimensions and weight**

The following table lists the height, width, depth, and weight of your Latitude 3520.

Table 3. Dimensions and weight

D	escription	Values	
Н	Height:		
	Front height	18.06 mm (0.71 in.)	
	Rear height	18.06 mm (0.71 in.)	
W	idth	361 mm (14.21 in.)	
D	epth	240.95 mm (9.48 in.)	
Weight  i NOTE: The weight of your computer depends on the configuration ordered and manufacturing variability.		1.79 kg (3.95 lb)	

### **Processor**

The following table lists the details of the processors supported by your Latitude  $3520\,$ 

Table 4. Processor

Description	Option one	Option two	Option three	Option Four	Option Five	Option Six
Processor type	Intel Celeron 6305U	10 <sup>th</sup> Generation Intel Core i3-1005G1	11 <sup>th</sup> Generation Intel Core i3-1115G4	11 <sup>th</sup> Generation Intel Core i5-1135G7	11 <sup>th</sup> Generation Intel Core i5-1145G7	11 <sup>th</sup> Generation Intel Core i7-1165G7
Processor wattage	15 W	15 W	15 W	15 W	15 W	15 W
Processor core count	2	2	2	4	4	4
Processor thread count	2	4	4	8	8	8
Processor speed	Up to 1.80 GHz	2.40 GHz to 3.40 GHz	3.0 GHz to 4.10 GHz	2.40 GHz to 4.20 GHz	2.60 GHz to 4.40 GHz	2.80 GHz to 4.70 GHz
Processor cache	4 MB	4 MB	6 MB	8 MB	8 MB	12 MB
Integrated graphics	Intel UHD Graphics	Intel UHD Graphics	Intel UHD Graphics	Intel Iris X <sup>e</sup> Graphics	Intel Iris X <sup>e</sup> Graphics	Intel Iris X <sup>e</sup> Graphics

### Chipset

The following table lists the details of the chipset supported by your Latitude 3520

#### Table 5. Chipset

Description	Option one	Option two
Processors	Intel 10 <sup>th</sup> Generation Core i3	Intel 11 <sup>th</sup> Generation Core i3/i5/i7 and Intel Celeron
Chipset	Intel	Intel
DRAM bus width	64-bit	64-bit
Flash EPROM	32 MB	32 MB
PCle bus	Up to Gen 3	Up to Gen 3

# **Operating system**

Your Latitude 3520 supports the following operating systems:

- Windows 10 Pro, 64-bit
- Windows 10 Home, 64-bit
- Ubuntu Linux 20.04 LTS, 64-bit
- Kylin Linux version 10

# **Memory**

The following table lists the memory specifications of your Latitude 3520.

#### 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	<ul> <li>4 GB, 1 x 4 GB, DDR4, 3200 MHz</li> <li>8 GB, 1 x 8 GB, DDR4, 3200 MHz</li> <li>8 GB, 2 x 4 GB, DDR4, 3200 MHz</li> <li>16 GB, 1 x 16 GB, DDR4, 3200 MHz</li> <li>16 GB, 2 x 8 GB, DDR4, 3200 MHz</li> <li>32 GB, 2 x 16 GB, DDR4, 3200 MHz</li> </ul>	

# Intel Optane Memory 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 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 7. Intel Optane Memory with solid-state storage specifications

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

- NOTE: Intel Optane Memory with solid-state storage is supported on computers that meet the following requirements:
  - 11th Generation 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

### **External ports**

The following table lists the external ports of your Latitude 3520.

Table 8. External ports

Description	Values
Network port	One Flip-down RJ 45 10/100/1000 Mbps
USB ports	<ul> <li>One USB 3.2 Gen 2x2 Type-C port with DisplayPort alt mode/Power Delivery (11<sup>th</sup> Generation Intel processors only)</li> <li>One USB 3.2 Gen 2 Type-C port with DisplayPort alt mode/Power Delivery (10<sup>th</sup> Generation Intel processors only)</li> <li>One USB 3.2 Gen 1 port</li> <li>One USB 3.2 Gen 1 port with PowerShare</li> <li>One USB 2.0 port</li> </ul>
Audio port	One universal audio port
Video port	One HDMI 1.4a port
Media-card reader	One microSD-card slot
Power adapter port	4.5 mm barrel-type
Security-cable slot	One wedge-shaped lock slot
SIM-card slot	One microSIM-card slot (WWAN only)

### **Internal slots**

The following table lists the internal slots of your Latitude 3520.

#### Table 9. Internal slots

Description	Values
M.2	<ul> <li>One M.2 2230 slot for Wi-Fi</li> <li>One M.2 slot for 2230/2280 solid-state drive</li> <li>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.</li> </ul>

### **Ethernet**

The following table lists the wired Ethernet Local Area Network (LAN) specifications of your Latitude 3520.

#### Table 10. Ethernet specifications

Description	Values
Model number	Integrated Realtek RTL8111H
Transfer rate	e.g. 10/100/1000 Mbps

### Wireless module

The following table lists the Wireless Local Area Network (WLAN) modules supported on your Latitude 3520.

#### Wireless module

Table 11. Wireless module specifications

Description	Values		
Model number	Intel Wi-Fi 6 AX201	Qualcomm QCA61x4A	
Transfer rate	Up to 2400 Mbps	Up to 867 Mbps	
Frequency bands supported	2.4 GHz/5 GHz	2.4 GHz/5 GHz	
Wireless standards	<ul> <li>WiFi 802.11a/b/g</li> <li>Wi-Fi 4 (Wi-Fi 802.11n)</li> <li>Wi-Fi 5 (Wi-Fi 802.11ac)</li> <li>Wi-Fi 6 (WiFi 802.11ax)</li> </ul>	<ul> <li>WiFi 802.11a/b/g</li> <li>Wi-Fi 4 (Wi-Fi 802.11n)</li> <li>Wi-Fi 5 (Wi-Fi 802.11ac)</li> </ul>	
Encryption	<ul><li>64-bit/128-bit WEP</li><li>AES-CCMP</li><li>TKIP</li></ul>	<ul><li>64-bit/128-bit WEP</li><li>AES-CCMP</li><li>TKIP</li></ul>	
Bluetooth	Bluetooth 5.1	Bluetooth 5.0	

Table 12. WWAN module

Table 12. WWAN module

Feature	Specifications	
Model number	Dell DW5820e Intel 7360 LTE-A	
Host interface	M.2 3042 form factor	
Network standard	LTE FDD/TDD, WCDMA/HSPA+, GNSS/Beidou	
Transfer rate	Up to 450 Mbps DL/50 Mbps UL (Cat 9)	
Operating Frequency Bands	(1,2,3,4,5,7,8,11,12,13,17,18,19,20,21,26,28,29,30,38,39,40,41,66), HSPA+ (1, 2, 4, 5, 8)	
Data Rate	<ul> <li>LTE FDD: 450 Mbps DL/50 Mbps UL (Cat 9)</li> <li>LTE TDD: 347 Mbps DL/30 Mbps UL (Cat 9)</li> <li>UMTS/HSPA+: UMTS 384 kbps DL/384 kbps UL</li> </ul>	
Power supply	DC 3.135 V to 4.4 V, Typical 3.3 V	
Antenna Diversity	Supported	
Radio On/Off	Supported	
Wake On Wireless	Supported	
Temperature	<ul> <li>Normal operating temperature: -10°C to + 55°C</li> <li>Extended Operating temperature: -20°C to +65°C</li> </ul>	
	i NOTE: Variation in temperature can affect the performance of the WWAN card.	
Antenna connector	<ul><li>WWAN Main Antenna X 1</li><li>WWAN Diversity Antenna X 1</li></ul>	

# **Audio**

The following table lists the audio specifications of your Latitude 3520.

Table 13. Audio specifications

Description		Values
Audio controller		Realtek ALC3204
Stereo conversion		Supported
Internal audio interface	)	High definition audio
External audio interfac	е	Universal audio port
Number of speakers		Two
Internal-speaker amplif	ier	Supported (audio codec integrated)
External volume contro	ols	Keyboard shortcut controls
Speaker output:		
	Average speaker output	2 W
	Peak speaker output	2.5 W
Subwoofer output		Not supported

#### **Table 13. Audio specifications**

Description	Values	
Microphone	<ul><li>Single microphones with HD camera</li><li>Digital-array microphones with IR camera</li></ul>	

### **Storage**

This section lists the storage options on your Latitude 3520.

Your computer supports one of the following configurations:

- One 2.5-inch SATA hard-drive
- One M.2 2230/2280 for solid-state drive (Class 35 or Class 40)
- One 2.5-inch SATA hard-drive and One M.2 2230/2280 solid-state drive

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

- 2.5-inch 5400/7200 RPM, SATA hard drive
- M.2 2230/2280 for solid-state drive (Class 35 or Class 40)

#### Table 14. Storage specifications

Storage type	Interface type	Capacity
2.5-in. 5400 rpm, hard drive	SATA	1 TB
2.5-in. 7200 rpm, hard drive	SATA	500 GB
M.2 2230 solid-state drive	PCle NVMe Gen3 x4	Up to 512 GB
M.2 2280 solid-state drive	PCle NVMe Gen3 x4	Up to 1 TB

### Media-card reader

The following table lists the media cards supported by your Latitude 3520.

#### Table 15. Media-card reader specifications

Description	Values	
Media-card type	One microSD 3.0 card	
Media-cards supported	<ul> <li>Micro Secure Digital (mSD)</li> <li>Micro Secure Digital High Capacity(mSDHC)</li> <li>Micro Secure Digital Extended Capacity(mSDXC)</li> </ul>	
installed in your computer.		

### **Keyboard**

#### Table 16. Keyboard specifications

Description	Values	
Туре	Standard non-backlit keyboard with optional fingerprint reader     Standard backlit keyboard with optional fingerprint reader	

Table 16. Keyboard specifications

Description	Values	
Layout	QWERTY	
Number of keys	<ul><li>United States and Canada: 99 keys</li><li>United Kingdom: 100 keys</li><li>Japan: 103 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.  (i) NOTE: You can define the primary behavior of the function keys (F1–F12) changing Function Key Behavior in BIOS setup program.	

### Camera

**Table 17. Camera specifications** 

Standard Webcam		
Description		Values
Number of	cameras	One
Туре		HD RGB camera
Location		Front Camera
Sensor type		CMOS sensor technology
Resolution:		
	Still image	0.92 megapixel
	Video	1280 x 720 (HD) at 30 fps
Diagonal viewing angle		78.60 degrees

#### Table 18. IR Webcam specifications

IR Webcam			
Description			
Number of cameras	One		
Туре	HD RGB-IR camera		
Location	Front Camera		
Sensor type	CMOS sensor technology		
Resolution			
Camera			
Still image (megapixel) 0.92			

Table 18. IR Webcam specifications

IR Webcam			
Description			
	Video	1280 x 720 (HD) at 30 fps	
	Infrared camera		
Still image	Still image 0.23 megapixel		
Video		640 x 360 at 30 fps	
Diagonal vie	Diagonal viewing angle		
	Camera	87 degree	
	Infrared camera	87 degree	

# **Touchpad**

The following table lists the touchpad specifications of your Latitude 3520.

Table 19. Touchpad specifications

Description		Values
Touchpad re	esolution:	
	Horizontal	305
	Vertical	305
Touchpad di	mensions:	
	Horizontal	115 mm (4.53 in.)
	Vertical	80 mm (3.15 in.)
Touchpad ge	estures	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 Latitude 3520.

Table 20. Power adapter specifications

Description	Option one	Option two
Туре	65 W AC adapter, 4.5 mm barrel	65 W AC adapter, USB-C
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)	1.60 A / 1.7 A	1.70 A
Output current (continuous)	3.34 A	<ul> <li>20 V/3.25 A</li> <li>15 V/3 A</li> <li>9 V/3 A</li> <li>5 V/3 A</li> </ul>

Table 20. Power adapter specifications

Description		Option one	Option two
Rated output voltage		19.50 VDC	20 VDC/15 VDC/9 VDC/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 70°C (-40°F to 158°F)	-40°C to 70°C (-40°F to 158°F)

# **Battery**

Table 21. Battery specifications

Description		Values	
Туре		3-cell, 41 Whr	4-cell, 54 Whr
Voltage		11.25 VDC	15 VDC
Weight (maximum)		0.17 kg (0.37 lb)	0.23 kg (0.50 lb)
Dimensions:			
Height		206.40 mm (8.12 in.)	271.90 mm (10.70 in.)
Width		82 mm (3.22 in.)	82 mm (3.22 in.)
Depth		5.75 mm (0.23 in.)	5.75 mm (0.23 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		-40°C to 65°C (-40°F to 149°F)	-40°C to 65°C (-40°F to 149°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)  (i) NOTE: Control the charging time, duration, start and end time, and so on using the Dell Power Manager application.	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.
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 22. Display specifications

Table 22. Display specifications

Decsription		Values			
Туре		High Definition (HD)	Full High Definition (FHD)	Full High Definition (FHD)	
Panel tec	hnology	TN(Twisted Nematic)	WVA(wide view angle)	WVA(wide view angle)	
Luminand	ce (typical)	220 nits	250 nits	250 nits	
Dimensio	ns (active area):			-	
	Height	193.59 mm (7.62 in.)	193.59 mm (7.62 in.)	193.59 mm (7.62 in.)	
	Width	344.16 mm (13.54 in.)	344.16 mm (13.54 in.)	344.16 mm (13.54 in.)	
	Diagonal	396.24 mm (15.60 in.)	396.24 mm (15.60 in.)	396.24 mm (15.60 in.)	
Native re	solution	1366 x 768	1920 x 1080	1920 x 1080	
Megapixe	els	1.05	2.073	2.07	
Color gamut		NTSC 45% Typ.	NTSC 45% Typ.	NTSC 45% Typ.	
Pixels per inch (PPI)		100	141	141	
Contrast ratio (min)		500:1	700:1	700:1	
Response time (max)		25 ms	25 ms	25 ms	
Refresh rate		60 Hz	60 Hz	60 Hz	
Horizonta	al view angle	40 degrees	80 degrees	80 degrees	
Vertical view angle		10/30 degrees	80 degrees	80 degrees	
Pixel pitch		0.252 mm	0.179 mm	0.179 mm	
Power co	onsumption m)	4.20 W	4.60 W	4.50 W	
Anti-glare vs glossy finish		Anti-glare	Anti-glare	Anti-glare	
Touch options		No	No	Yes	

# Fingerprint reader

The following table lists the fingerprint-reader specifications of your Latitude 3520.

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

i NOTE: The fingerprint reader is an optional offering.

#### Table 23. Fingerprint reader specifications

Description	Values
Fingerprint-reader sensor technology	Capacitive
Fingerprint-reader sensor resolution	500 dpi

#### Table 23. Fingerprint reader specifications

Description	Values
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 Latitude 3520.

#### Table 24. GPU—Integrated

Controller	Memory size	Processor
Intel UHD Graphics	Shared system memory	<ul> <li>Intel Celeron 6305U processor</li> <li>Intel 10<sup>th</sup> Generation Core i3 processors</li> <li>Intel 11<sup>th</sup> Generation Core i3 processors</li> </ul>
Intel Iris X <sup>e</sup> Graphics	Shared system memory	Intel 11 <sup>th</sup> Generation Core i5 / i7     processors

### **GPU**—Discrete

The following table lists the specifications of the discrete Graphics Processing Unit (GPU) supported by your Latitude 3520.

#### Table 25. GPU—Discrete

Controller	External display support	Memory size	Memory type
NVIDIA GeForce MX450	Not Supported	2 GB	GDDR5

### **Operating and storage environment**

This table lists the operating and storage specifications of your Latitude 3520.

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

#### Table 26. 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)

<sup>\*</sup> Measured using a random vibration spectrum that simulates user environment.

<sup>†</sup> 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 3, 3 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 27. List of keyboard shortcuts

Function key	Redefined key (for multimedia control)	Behavior
F1	Fn + F1	Mute audio
F2	Fn + F2	Decrease volume
F3	Fn + F3	Increase volume
F4	Fn + F4	Play previous track/chapter
F5	Fn + F5	Play/Pause
F6	Fn + F6	Play next track/chapter.
F8	Fn + F8	Switch to external display
F9	Fn + F9	Search
F10	Fn + F10	Click keyboard backlight (optional).  NOTE: Non-backlight keyboards have F10 function key without the backlight icon and do not support toggle keyboard backlight function.
F11	Fn + F11	Decrease brightness
F12	Fn + F12	Increase brightness

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

Table 28. Secondary behavior

Function key	Behavior
Fn + PrtScr	Turn off/on wireless
Fn + B	Pause/Break
Fn + Insert	Sleep
Fn + S	Toggle scroll lock

Table 28. Secondary behavior

Function key	Behavior
Fn + H	Toggle between power and battery-status light/hard-drive activity light
Fn + R	System request
Fn + Ctrl	Open application menu
Fn + Esc	Toggle Fn-key lock
Fn + PgUp	Page up
Fn + PgDn	Page down
Fn + Home	Home
Fn + End	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 29. Self-help resources

Self-help resources	Resource location
Information about Dell products and services	www.dell.com
My Dell app	DELL
Tips	*
Contact Support	In Windows search, type Contact Support, 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 on your computer.
Dell knowledge base articles for a variety of computer concerns	<ol> <li>Go to www.dell.com/support.</li> <li>On the menu bar at the top of the Support page, select Support &gt; Knowledge Base.</li> <li>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.</li> </ol>

### Contacting Dell

To contact Dell for sales, technical support, or customer service issues, see www.dell.com/contactdell.

- (i) 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.