

Latitude 7520

Setup and specifications guide



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.

Contents

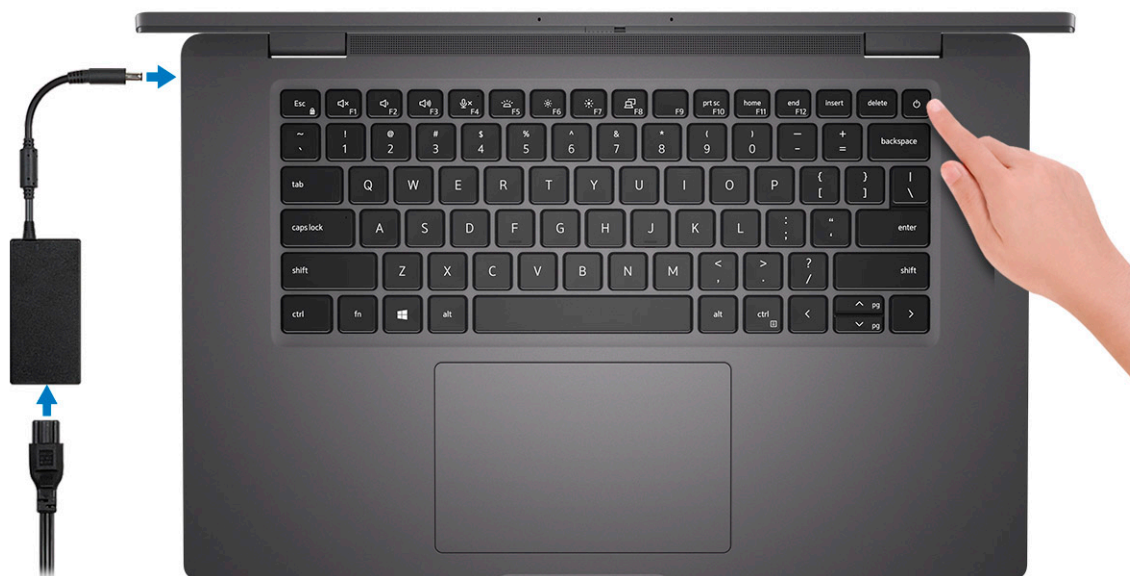
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Set up your Latitude 7520

Steps

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


 **NOTE:** To conserve battery power, the battery might enter power saving mode.



2. Finish Windows system 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






Dell apps	Details
	<p>Dell Product Registration Register your computer with Dell.</p>
	<p>Dell Help & Support Access help and support for your computer.</p>

Table 1. Locate Dell apps (continued)

Dell apps	Details
	<p>SupportAssist</p> <p>Proactively checks the health of your computer’s hardware and software.</p> <p>i NOTE: Renew or upgrade your warranty by clicking the warranty expiry date in SupportAssist.</p>
	<p>Dell Update</p> <p>Updates your computer with critical fixes and important device drivers as they become available.</p>
	<p>Dell Digital Delivery</p> <p>Download software applications including software that is purchased but not preinstalled on your computer.</p>

4. Create recovery drive for Windows.

i **NOTE:** It is recommended to create a recovery drive to troubleshoot and fix problems that may occur with Windows.

For more information, see [Create a USB recovery drive for Windows](#).

Create a USB recovery drive for Windows

Create a recovery drive to troubleshoot and fix problems that may occur with Windows. An empty USB flash drive with a minimum capacity of 16 GB is required to create the recovery drive.

Prerequisites

NOTE: This process may take up to an hour to complete.

NOTE: The following steps may vary depending on the version of Windows installed. Refer to the [Microsoft support site](#) for latest instructions.

Steps

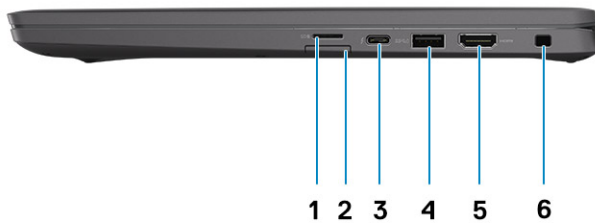
1. Connect the USB flash drive to your computer.
2. In Windows search, type **Recovery**.
3. In the search results, click **Create a recovery drive**.
The **User Account Control** window is displayed.
4. Click **Yes** to continue.
The **Recovery Drive** window is displayed.
5. Select **Back up system files to the recovery drive** and click **Next**.
6. Select the **USB flash drive** and click **Next**.
A message appears, indicating that all data in the USB flash drive will be deleted.
7. Click **Create**.
8. Click **Finish**.
For more information about reinstalling Windows using the USB recovery drive, see the *Troubleshooting* section of your product's *Service Manual* at www.dell.com/support/manuals.

Chassis overview

Topics:

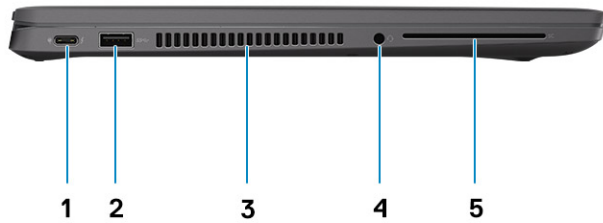
- [Right view](#)
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Right view



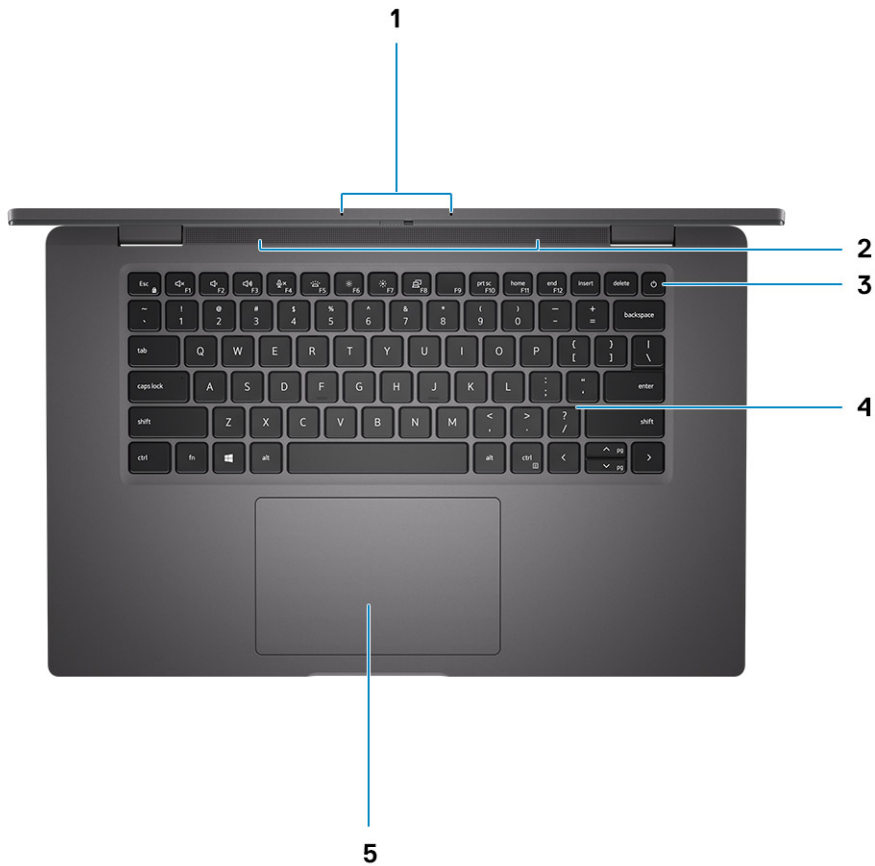
1. micro-SD 4.0 card reader slot
2. SIM card slot (optional with WWAN configuration only)
3. Thunderbolt 4 with Power Delivery/DisplayPort Alt Mode/USB 4 type-C
4. SuperSpeed USB 3.2 Gen 1 Type-A with Power Share
5. HDMI 2.0 port
6. Wedge shaped lock slot

Left view



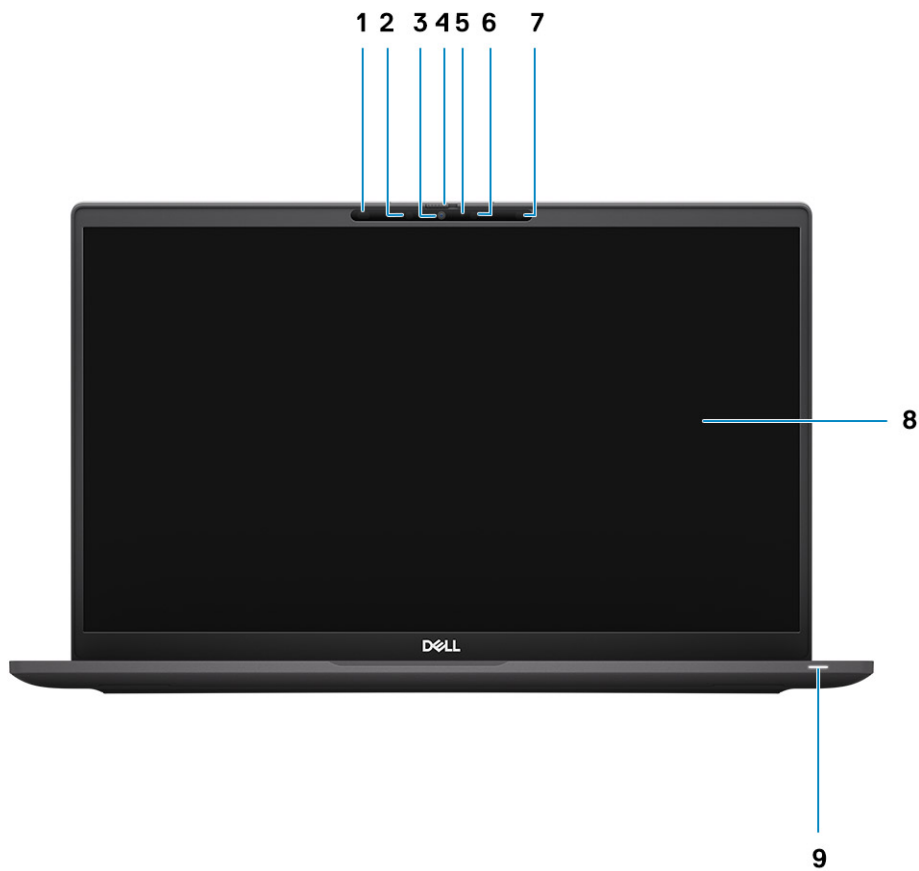
1. Thunderbolt 4 with Power Delivery/DisplayPort Alt Mode/USB 4 type-C
2. SuperSpeed USB 3.2 Gen 1 Type-A
3. Cooling vents
4. Headset (headphone and microphone combo) port
5. Smart card reader slot (optional)

Palmrest view



1. Microphone array
2. Speakers
3. Power button (Optional: Fingerprint reader)
4. Keyboard
5. Touchpad

Display



1. Proximity sensor (optional)
2. IR emitter (optional)
3. RGB or IR camera optional
4. SafeView switch (camera shutter)
5. Camera status LED
6. IR emitter(optional)
7. Ambient Light Sensor (ALS) (optional)
8. LCD panel
9. LED indicator

Bottom view



1. Speakers
2. Service tag label
3. Heatsink grills

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 7520


Topics:

- Dimensions and weight
- Processors
- Chipset
- Operating system
- Memory
- External ports
- Internal slots
- Wireless modules
- Audio
- Storage
- Media-card reader
- Keyboard
- Camera
- Touchpad
- Power adapter
- Battery
- Display
- Fingerprint reader
- GPU—Integrated
- Computer environment

Dimensions and weight

The following table lists the height, width, depth, and weight of your Latitude 7520.

Table 3. Dimensions and weight

Description	Values
Height:	
Front height	17.50 mm (0.69 in.)
Rear height	<ul style="list-style-type: none"> • Aluminum: 18.40 mm (0.72 in.) • Carbon Fiber(CF): 18.89 mm (0.74 in.)
Width	357.70 mm (14.08 in.)
Depth	229.75 mm (9.05 in.)
Weight (minimum)	<ul style="list-style-type: none"> • CF: 1.53 kg (3.37 lb) • Aluminum: 1.76 kg (3.88 lb) <p> NOTE: The weight of your computer depends on the configuration ordered and manufacturing variability.</p>

Processors

Table 4. Processors

Description	Values			
Processors	11 th Generation Intel Core i5-1135G7 (Non-vPro)	11 th Generation Intel Core i5-1145G7 (vPro)	11 th Generation Intel Core i7-1165G7 (Non-vPro)	11 th Generation Intel Core i7-1185G7 (vPro)
Wattage	<ul style="list-style-type: none"> cTDP (configurable Thermal Design Power): 13 W - 15 W Maximum TDP: 28 W 	<ul style="list-style-type: none"> cTDP: 13 W - 15 W Maximum TDP: 28 W 	<ul style="list-style-type: none"> cTDP: 13 W - 15 W Maximum TDP: 28 W 	<ul style="list-style-type: none"> cTDP: 13 W - 15 W Maximum TDP: 28 W
Core count	4	4	4	4
Thread count	8	8	8	8
Speed	2.40 GHz to 4.20 GHz	2.60 GHz to 4.40 GHz	2.80 GHz to 4.70 GHz	3.00 GHz to 4.80 GHz
Cache	8 MB	8 MB	12 MB	12 MB
Integrated graphics	Intel Iris X ^e Graphics	Intel Iris X ^e Graphics	Intel Iris X ^e Graphics	Intel Iris X ^e Graphics

Chipset

Table 5. Chipset

Description	Values
Chipset	Intel Tiger Lake U PCH
Processor	11 th Generation Intel Tiger Lake Core i5/i7 processors
DRAM bus width	64-bit
PCIe bus	Up to Gen4

Operating system


- Windows 10 Home (64-bit)
- Windows 10 Professional (64-bit)
- Ubuntu 20.04 LTS

Memory

Table 6. Memory specifications

Description	Values
Slots	Built on system board
Type	Dual-channel Low-Power Dual Data Rate (LPDDR4x)

Table 6. Memory specifications (continued)

Description	Values
Speed	4267 MHz
Maximum memory	32 GB
Minimum memory	8 GB
Configurations supported	<ul style="list-style-type: none"> 8 GB, 2 x 4 GB 16 GB, 2 x 8 GB 32 GB, 2 x 16 GB <p> NOTE: Memory is not upgradable.</p>

External ports

The following table lists the external ports on your Latitude 7520.


Table 7. External ports

Description	Values
USB ports	<ul style="list-style-type: none"> Two SuperSpeed USB 3.2 Gen 1 Type-A one with PowerShare Two Thunderbolt 4 with Power Delivery/DisplayPort Alt Mode/USB 4 type-C
Audio port	One Combo Mic/Headphone Jack
Video port	<ul style="list-style-type: none"> One HDMI 2.0 port Two Thunderbolt 4 ports with DisplayPort Alt Mode
Media-card reader	One micro-SD 4.0 Card reader
Docking port	Supports docking through the USB 4 Type-C ports
Power-adaptor port	Two USB 4 Type-C with Power Delivery
Security	One Wedge-shaped lock slot

Internal slots

The following table lists the internal slots of your Latitude 7520.

Table 8. Internal slots

Description	Values
M.2	<p>One M.2 2230/2280 Keyed M slot for SSD</p> <p> NOTE: To learn more about the features of different types of M.2 cards, see the knowledge base article Article Number: 144170 at www.dell.com/support.</p>

Wireless modules

The following table lists the Wireless Local Area Network (WLAN) specifications and the Wireless Wide Area Network (WWAN) modules that are supported on your Latitude 7520.

WLAN module

Table 9. WLAN module specifications

Description	Values
Model number	Intel Wi-Fi 6 AX201, 2x2, 802.11ax with Bluetooth 5.1 (onboard)
Transfer rate	<ul style="list-style-type: none"> 2.4 GHz 40M: Up to 574 Mbps 5 GHz 80M: Up to 1.2 Gbps 5 GHz 160M: Up to 2.4 Gbps
Frequency bands supported	2.4 GHz/5 GHz
Wireless standards	IEEE 802.11a/b/g/n/ac/ax, 160 MHz channel use
Encryption	<ul style="list-style-type: none"> 64/128-bit WEP 128-bit AES-CCMP 256-bit AES-GCMP TKIP
Bluetooth	Bluetooth 5.1

WWAN modules

The following list provides the mobile broadband module options available on Latitude 7520.

- Qualcomm Snapdragon X20 Gigabit LTE CAT 16 (DW5821e with e-SIM enabled), WW excluding China, Turkey, US
 - Qualcomm Snapdragon X20 Gigabit LTE CAT 16 (DW5821e) WW
 - Qualcomm Snapdragon X20 Gigabit LTE CAT 16 (DW5821e) for AT&T, Verizon, and Sprint for US only
- Qualcomm Snapdragon X20 LTE-A CAT 9 (DW5829e with e-SIM enabled) WW excluding China, Turkey, US
 - Qualcomm Snapdragon X20 LTE-A CAT 9 (DW5829e) WW
 - Qualcomm Snapdragon X20 LTE-A CAT 9 (DW5829e) for AT&T, Verizon, and Sprint for US only

Audio

The following table lists the audio specifications of your Latitude 7520.

Table 10. Audio specifications

Description	Values
Audio controller	High Definition Audio
Stereo conversion	Supported
Internal audio interface	Realtek ALC3281-CG, High Definition Audio with Realtek ALC1309 Smart Amp
External audio interface	Universal Audio Jack

Table 10. Audio specifications (continued)

Description		Values
Number of speakers		4
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		Digital-array microphones

Storage

This section lists the storage options on your Latitude 7520.

Your system supports one of the following configurations:

- M.2 2230, PCIe x4 NVMe, Class 35 SSD
- M.2 2280, PCIe x4 NVMe, Class 40 SSD
- M.2 2280, PCIe x4 NVMe, Class 40 SED

Table 11. Storage specifications

Storage type	Interface type	Capacity
M.2 2230, PCIe x4 NVMe, Class 35 SSD	PCIe x4 NVMe 3.0	up to 512 GB
M.2 2280, PCIe x4 NVMe, Class 40 SSD	PCIe x4 NVMe 3.0	up to 1 TB
M.2 2280, PCIe x4 NVMe, Class 40 SED	PCIe x4 NVMe 3.0	up to 512 GB

Media-card reader

Table 12. Media-card reader specifications

Description	Values
Type	micro-SD 4.0 Card reader
Cards supported	<ul style="list-style-type: none"> • micro-Secure Digital (mSD) • micro-Secure Digital High Capacity (mSDHC) • micro-SD Extended Capacity (mSDXC)

Keyboard

Table 13. Keyboard specifications

Description	Values
Type	<ul style="list-style-type: none"> • Standard non-backlit keyboard

Table 13. Keyboard specifications (continued)

Description	Values
	<ul style="list-style-type: none"> Standard backlit keyboard
Layout	QWERTY/KANJI
Number of keys	<ul style="list-style-type: none"> United States and Canada: 79 keys United Kingdom: 80 keys Japan: 83 keys
Size	X =19.05 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 wanted key. To perform secondary functions, press Fn and the wanted key. ⓘ NOTE: You can define the primary behavior of the function keys (F1–F12) changing Function Key Behavior in BIOS setup program.

Camera

Table 14. Camera specifications

Description	Value				
Number of cameras	One	One	One	One	One
Type	Integrated 2.7 mm HD RGB Webcam	Integrated 2.7 mm HD RGB/IR Webcam with ALS and Proximity Sensor	Integrated 6 mm HD RGB Webcam	Integrated 6 mm HD RGB/IR Webcam with ALS and Proximity Sensor	Integrated 6 mm FHD RGB/IR Webcam with ALS and Proximity Sensor
Location	Front	Front	Front	Front	Front
Sensor type	CMOS sensor technology	CMOS sensor technology	CMOS sensor technology	CMOS sensor technology	CMOS sensor technology
Resolution (RGB):					
Still Image	0.92	0.92	0.92	0.92	2
Video	1280 x 720 at 30 fps	1280 x 720 at 30 fps	1280 x 720 at 30 fps	1280 x 720 at 30 fps	1920 x 1080 at 30 fps
Diagonal viewing angle	74.9°	75.8°	78.6°	87°	87.6°
Resolution (IR):					
Still Image	NA	0.23	NA	0.23	0.23
Video	NA	640 x 360 at 15 fps	NA	640 x 360 at 15 fps	640 x 360 at 15 fps
Diagonal viewing angle	NA	75.8°	NA	87°	87.6°

Touchpad

Table 15. Touchpad specifications

Description	Option 1	Option 2
Resolution:		
Horizontal	3561	1461
Vertical	2416	921
Dimensions:		
Horizontal	125 mm (4.92 in.)	125 mm (4.92 in.)
Vertical	80 mm (3.14 in.)	80 mm (3.14 in.)

Power adapter

The following table lists the power adapter specifications of your Latitude 7520.

Table 16. Power adapter specifications

Description	Option one	Option two
Type	65 W, USB type-C adapter	90 W, USB Type-C adapter
Input voltage	100 VAC/240 VAC	100 VAC/240 VAC
Input frequency	50 Hz/60 Hz	50 Hz/60 Hz
Input current (maximum)	1.70 A	1.50 A
Output current (continuous)	<ul style="list-style-type: none"> ● 20 V/3.25 A (Continuous) ● 15 V/3 A (Continuous) ● 9.0 V/3 A (Continuous) ● 5.0 V/3 A (Continuous) 	<ul style="list-style-type: none"> ● 20 V/4.5 A (Continuous) ● 15 V/3 A (Continuous) ● 9.0 V/3 A (Continuous) ● 5.0 V/3 A (Continuous)
Rated output voltage	20 VDC/15 VDC/9 VDC/5 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)
Dimensions		
Width (mm/inch)	112 mm (4.41 in.)	130 mm (5.1 in.)
Depth (mm/inch)	51 mm (2.01 in.)	66 mm (2.6 in.)
Height (mm/inch)	28 mm (1.1 in.)	22 mm (0.8 in.)
Weight (kg/lb)	201 g (0.44 lb)	291 g (0.64 lb)

Battery

Table 17. Battery specifications

Specifications		Option 1	Option 2
Type		4-cell, 63 WHr, optional with ExpressCharge or Long Life Cycle	3-cell, 42 WHr, optional with ExpressCharge or Long Life Cycle
Voltage (VDC)		15.2 VDC	11.40 VDC
Weight (maximum)		0.264 kg (0.582lb)	0.212 kg (0.467lb)
Dimensions:			
	Height	92.8 mm (3.654 in.)	92.8 mm (3.654 in.)
	Width	238 mm (9.37 in.)	238 mm (9.37 in.)
	Depth	5.7 mm (0.224 in.)	5.7 mm (0.224 in.)
Temperature range:			
	Operating	<ul style="list-style-type: none"> Charging: 0°C to 45°C (32°F to 113°F) Discharging: 0°C to 65°C (32°F to 149°F) 	
	Storage	-20°C to 60°C (-4°F to 140°F)	
Battery Operating time		Varies depending on operating conditions and can significantly reduce under certain power-intensive conditions.	
Battery Charging time (approximate)		<ul style="list-style-type: none"> ExpressCharge Boost (0% up to 35%) : 20 minutes Express charge : 2 hours Standard charge: 3 hours <p>i NOTE: Control the charging time, duration, start and end time, and so on using the Dell Power Manger application. For more information on the Dell Power Manger see, https://www.dell.com/support/home/product-support/product/power-manager/docs</p>	
Life span (approximate)		<ul style="list-style-type: none"> Standard: 1 Year or 300 discharge/charge cycles Long Life Cycle (LCL) capable: 3 Years or 1000 discharge/charge cycles (Optional) 	
ExpressCharge		Supported on Express Charge Capable Battery	Supported on Express Charge Capable Battery
User replaceable		No (FRU ¹)	No (FRU)
Coin-cell battery		Main battery reserves 2% of capacity for RTC function.	
Coin-cell Operating time		68 days with 3-cell 42 WHr battery	
		<p>i NOTE: Varies depending on operating conditions and can significantly reduce under certain power-intensive conditions.</p>	

i **NOTE:**

For batteries with the ExpressCharge feature, the battery will typically have at least an 80% charge after about an hour of charging with the system off, and fully charged in about 2 hours with the system off.

Enabling ExpressCharge requires that both the computer and the battery used be ExpressCharge capable. If these requirements are not met, ExpressCharge will not be enabled.

† : Field Replaceable Part

Display

The following table lists the display specifications of your Latitude 7520.

Table 18. Display specifications

Description		Option one	Option two	Option three	Option four
Display type		15.6-in. Full HD (FHD)	15.6-in. FHD Super Low Power (SLP) ComfortView Plus Low Blue Light	15.6-in. FHD with integrated touch	15.6 in. Ultra High Definition (UHD) ComfortView Plus Low Blue Light
Display-panel technology		TFT , Wide View Angle (WVA)	TFT, IPS, Super Low Power (SLP) ComfortView Plus Low Blue Light, WVA	TFT, WVA	TFT, IPS, Super Low Power (SLP) ComfortView Plus Low Blue Light, WVA
Display-panel dimensions (active area):					
	Height	344.16 mm (13.55 in.)	344.16 mm (13.55 in.)	344.16 mm (13.55 in.)	344.16 mm (13.55 in.)
	Width	193.59 mm (7.62 in.)	193.59 mm (7.62 in.)	193.59 mm (7.62 in.)	193.59 mm (7.62 in.)
	Diagonal	396.24 mm (15.6 in.)	396.24 mm (15.6 in.)	396.24 mm (15.6 in.)	396.24 mm (15.6 in.)
Display-panel native resolution		1920 x 1080	1920 x 1080	1920 x 1080	3840 x 2160
Luminance (typical)		250 nits	400 nits	250 nits	400 nits
Megapixels		2.07	2.07	2.07	8.29
Color gamut		NTSC 45%	sRGB 100%	NTSC 45%	sRGB 100%
Pixels Per Inch (PPI)		141	141	141	283
Contrast ratio (typ)		700:1	700:1	700:1	1000:1
Response time (min)		25 milli-second (ms)	25 ms	25 ms	19 ms
Refresh rate		60 Hz	60 Hz	60 Hz	60 Hz
Horizontal view angle		80/80 degrees (min)	80/80 degrees (min)	80/80 degrees (min)	80/80 degrees (min)
Vertical view angle		80/80 degrees (min)	80/80 degrees (min)	80/80 degrees (min)	80/80 degrees (min)
Pixel pitch		0.17925 mm	0.17925 mm	0.17925 mm	0.08964 mm
Power consumption (maximum)		4.6 W	4.5 W	4.6 W	4.5 W
Anti-glare vs glossy finish		Anti-glare	Anti-glare	Anti-glare	Anti-glare

Table 18. Display specifications (continued)

Description	Option one	Option two	Option three	Option four
Touch options	Non-touch	Non-touch	Touch	Non-touch

Fingerprint reader

The following table lists the fingerprint-reader specifications of your Latitude 7520.

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 Latitude 7520.

Table 20. GPU—Integrated

Controller	External display support	Memory size	Processor
Intel Iris X ^e Graphics	<ul style="list-style-type: none"> Two Thunderbolt 4 ports with DisplayPort Alt Mode One HDMI 2.0 port 	Shared system memory	11 th Generation Intel Tiger Lake Core i5/i7 processors

Computer environment

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

Table 21. Computer environment

Description	Operating	Storage
Temperature range	Normal ambient condition 25°C and 40~50% 0°C to Normal ambient condition 25°C and 40~50% 40°C (32°F to 104°F)	-40°C to 65°C (-40°F to 149°F)
Relative humidity (maximum)	Normal ambient condition 25°C and 40%~50% 10% to Normal ambient condition 25°C and 40%~50% 90% (non-condensing)	10% to 95% (non-condensing)
Vibration (maximum)*	0.66 GRMS	1.30 GRMS
Shock (maximum)	140 G†	160 G†
Altitude (maximum)	0 m to 3048 m (0 ft to 10,000 ft)	0 m to 10,688 m (0 ft to 35,000 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.

‡ 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 that are used for shortcuts remain the same across all language configurations.

Table 22. List of keyboard shortcuts

Keys	Primary Behavior	Secondary Behavior (Fn + Key)
Fn + Esc	Escape	Switch Fn-key lock
Fn + F1	Mute audio	F1 behavior
Fn + F2	Decrease volume	F2 behavior
Fn + F3	Increase volume	F3 behavior
Fn + F4	Mic Mute	F4 behavior
Fn + F5	Keyboard backlight NOTE: Not applicable for non-backlight keyboard.	F5 behavior
Fn + F6	Decrease screen brightness	F6 behavior
Fn + F7	Increase screen brightness	F7 behavior
Fn + F8	Switch to external display	F8 behavior
Fn + F10	Print Screen	F10 behavior
Fn + F11	Home	F11 behavior
Fn + F12	End	F12 behavior
Fn + Right Ctrl	Emulates right-click	--


Getting help

Topics:

- [Contacting Dell](#)

Contacting Dell

Prerequisites

 **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.

About this task

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:

Steps

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.