

Latitude 9520

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 Dell Latitude 9520

About this task

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

Resources	Description
	<p>Dell Product Registration Register your computer with Dell.</p>
	<p>Dell Help & Support Access help and support for your computer.</p>
	<p>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.</p> <p>NOTE: In SupportAssist, click the warranty expiry date to renew or upgrade your warranty.</p>
	<p>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 000149088 at www.dell.com/support.</p>
	<p>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 000129837 at www.dell.com/support.</p>

4. Create recovery drive for Windows.

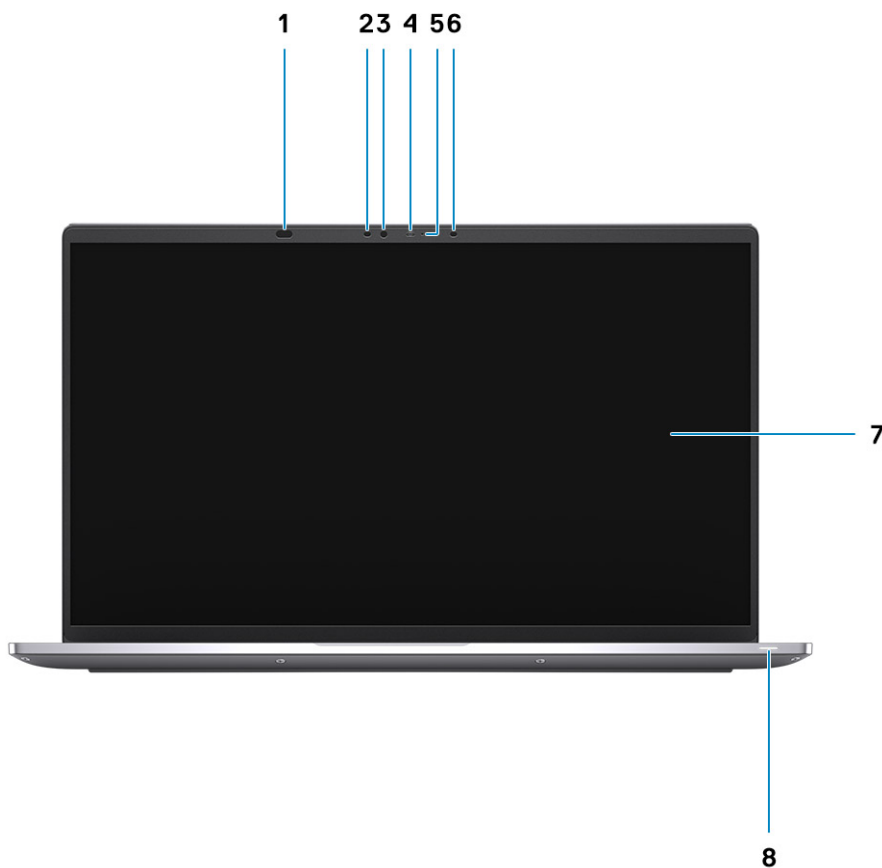
NOTE: It is recommended to create a recovery drive to troubleshoot and fix problems that may occur with Windows.

Chassis overview

Topics:

- Display view (2-in-1)
- Display view (Notebook)
- Left view
- Right view
- Bottom view
- Top view (2-in-1)
- Top view (Notebook)
- Modes
- Battery Charge and Status LED

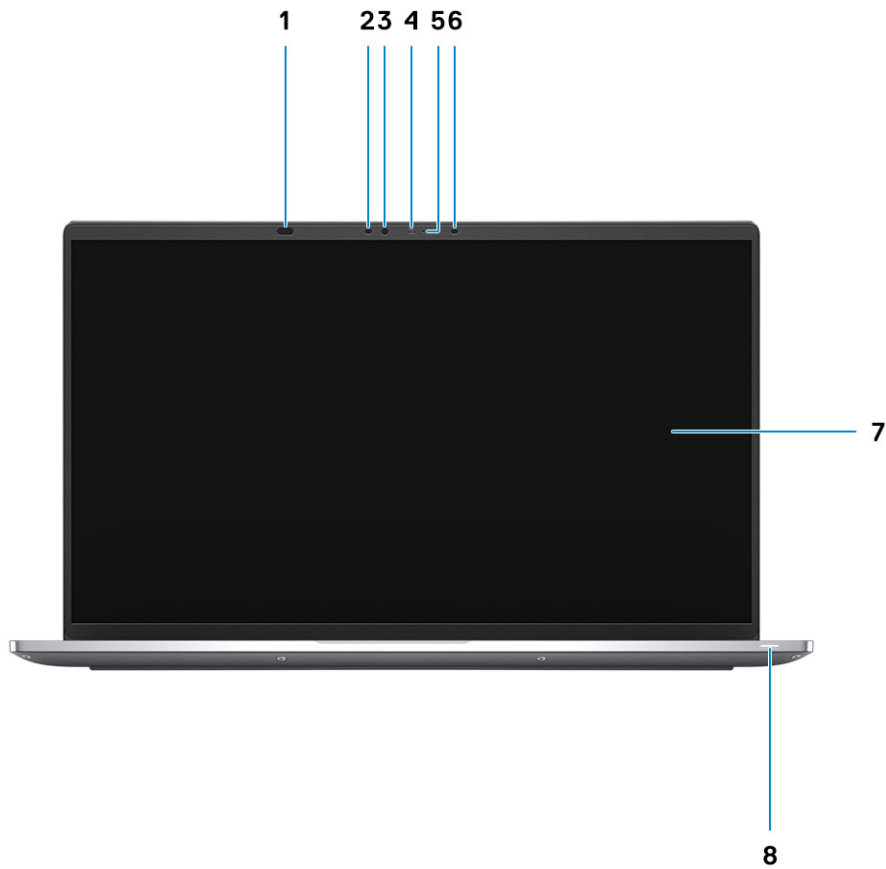
Display view (2-in-1)



1. Proximity sensor
3. Ambient Light Sensor (ALS)
5. Camera (RGB/IR) with SafeShutter
7. Display panel

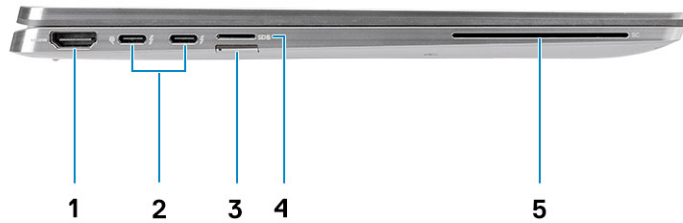
2. IR LED
4. Camera status light
6. IR LED
8. Power LED indicator

Display view (Notebook)



- | | |
|-------------------------------------|------------------------|
| 1. Proximity sensor | 2. IR LED |
| 3. Ambient Light Sensor (ALS) | 4. Camera status light |
| 5. Camera (RGB/IR) with SafeShutter | 6. IR LED |
| 7. Display panel | 8. Power LED indicator |

Left view



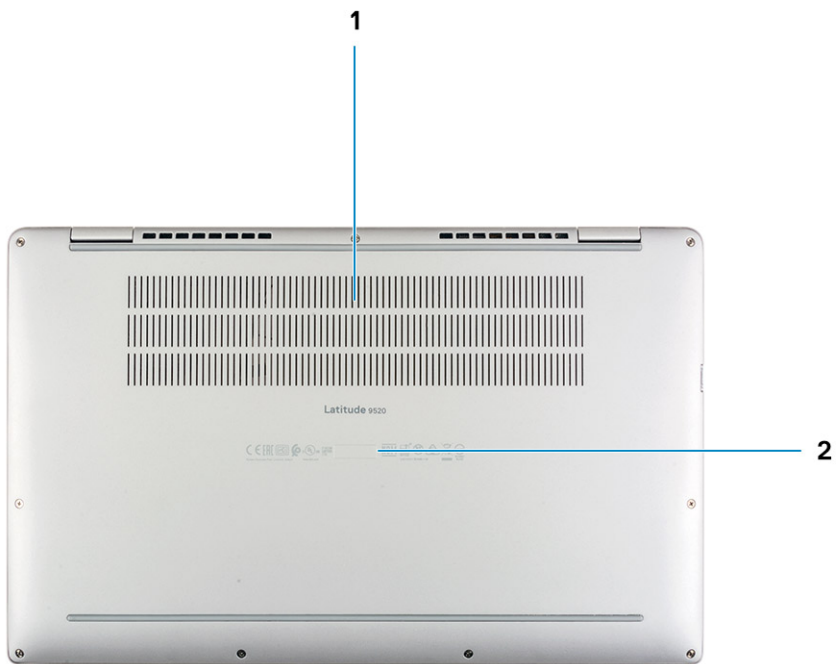
1. HDMI 2.0 port
2. Thunderbolt 4 port with DisplayPort Alt Mode/USB4/Power Delivery
3. SIM-card slot (optional)
4. microSD-card slot
5. Smart card reader slot (optional)

Right view



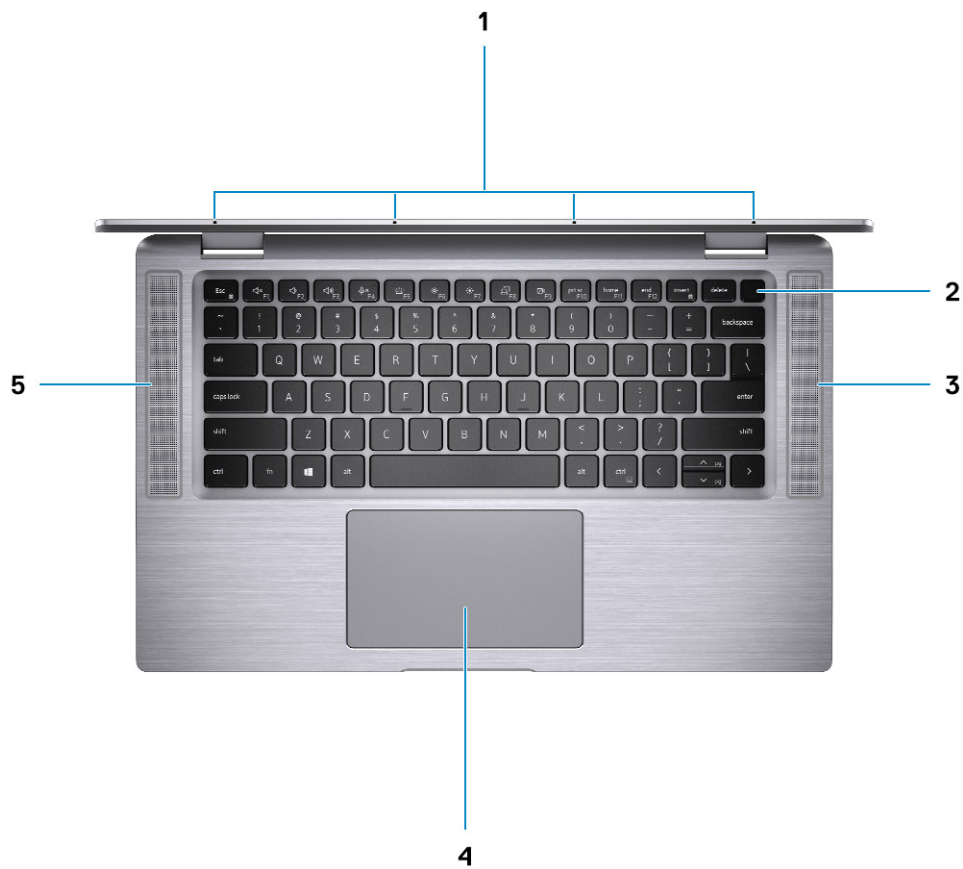
1. Wedge-shaped lock slot
2. Universal audio port
3. USB 3.2 Gen 1 Type-A port with PowerShare

Bottom view



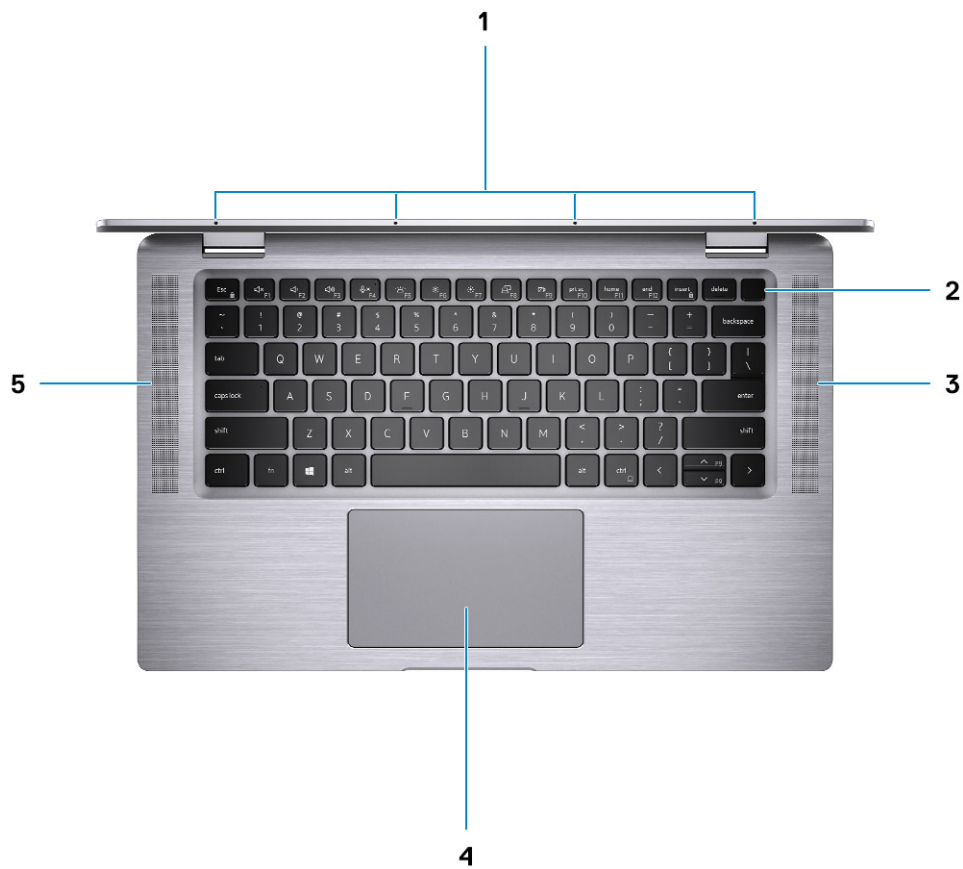
1. Air vents
2. Service tag label

Top view (2-in-1)



1. Quad-array microphones
2. Power button with fingerprint reader (optional)
3. Right speaker
4. Touchpad with RFID reader (optional)
5. Left speaker

Top view (Notebook)



1. Quad-array microphones
2. Power button with finger print reader (optional)
3. Right speaker
4. Touchpad with RFID reader (optional)
5. Left speaker

Modes

Tablet mode



Laptop mode



Tent mode



Entertainment mode



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.

Technical specifications

NOTE: Offerings may vary by region. The following specifications are only those required by law to ship with your computer. For more information about the configuration of your computer, go to Help and Support in your Windows operating system and select the option to view information about your computer.

Topics:

- [Dimensions and weight](#)
- [Processors](#)
- [Chipset](#)
- [Operating system](#)
- [Memory](#)
- [Internal slots](#)
- [External ports](#)
- [Wireless module](#)
- [Audio](#)
- [Storage](#)
- [Media-card reader](#)
- [Keyboard](#)
- [Camera](#)
- [Touchpad](#)
- [Power adapter](#)
- [Battery](#)
- [Display](#)
- [Fingerprint reader \(optional\)](#)
- [GPU — Integrated](#)
- [Security](#)
- [Computer environment](#)

Dimensions and weight

Table 3. Dimensions and weight

Description	Values
Height:	
Front	9.13mm (0.36 in.)
Rear	14.84 mm (0.58 in.)
Width	340.20 mm (13.39 in.)
Depth	215.80 mm (8.49 in.)
Starting weight	<ul style="list-style-type: none"> • Laptop: 1.4 kg/3.1 lbs • 2-in-1: 1.5 kg/3.3 lbs

Processors

Table 4. Processors

Description	Values		
Processors	11 th Generation Intel Core i5-1135G7	11 th Generation Intel Core i5-1145G7	11 th Generation Intel Core i7-1185G7
Wattage	<ul style="list-style-type: none">Max TDP: 28 WcTDP: 12 ~ 15 W	<ul style="list-style-type: none">Max TDP: 28 WcTDP: 12 ~ 15 W	<ul style="list-style-type: none">Max TDP: 28 WcTDP: 12 ~ 15 W
Core count	4	4	4
Thread count	8	8	8
Speed	2.40 GHz - 4.20 GHz	2.60 GHz - 4.40 GHz	3.0 GHz - 4.80 GHz
Cache	8 MB	8 MB	12 MB
Integrated graphics	Intel Iris X ^e Graphics	Intel Iris X ^e Graphics	Intel Iris X ^e Graphics

Chipset

Table 5. Chipset

Description	Values
Chipset	Tiger Lake UP3
Processor	11 th Generation Intel Core i5/i7
DRAM bus width	Two channels, 64-bit
Flash EPROM	32 MB
PCIe bus	Up to Gen 4

Operating system

Your Dell Latitude 9520 supports the following operating systems:

- Windows 10 Home, 64-bit
- Windows 10 Pro, 64-bit
- Ubuntu 20.04 LTS, 64-bit

Memory

Table 6. Memory specifications


Description	Values
Slots	None  NOTE: System has on-board soldered RAM
Type	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, Onboard, LPDDR4x, 4267 MHz 16 GB, Onboard, LPDDR4x, 4267 MHz 32 GB, Onboard, LPDDR4x, 4267 MHz

Internal slots

The following table lists the internal slots of your Dell Latitude 9520.

Table 7. Internal slots

Description	Values
M.2	<ul style="list-style-type: none"> One M.2 slot for 2230 solid-state drive One M.2 3042 slot for WWAN <p> NOTE: Latitude 9520 has an onboard WLAN card.</p> <p> 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.</p>

External ports

The following table lists the external ports of your Dell Latitude 9520.

Table 8. External ports

Description	Values
Network port	Not supported
USB ports	<ul style="list-style-type: none"> One USB 3.2 Gen 1 Type-A port with PowerShare Two USB Type-C Thunderbolt 4 ports with Power Delivery/DisplayPort Alt Mode/USB 4
Audio port	One universal audio port
Video port	One HDMI 2.0 port
Media-card reader	One microSD 4.0
Power-adaptor port	USB-C type
Security-cable slot	One Wedge-shaped lock slot

Wireless module

Table 9. Wireless module specifications

Model number	Intel® Wi-Fi 6 AX201	Qualcomm Snapdragon X20 Global Gigabit LTE, eSIM capable	Qualcomm Snapdragon X55 Global 5G Modem, eSIM capable
Transfer rate (max)	Intel Wi-Fi 6 AX201	1 Gbps	3 Gbps
Frequency Bands supported	Up to 2400 Mbps	3.4 GHz	6 GHz
Wireless Standards	<ul style="list-style-type: none"> • 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) 	LTE, WCDMA	NR FR1(Sub6) FDD/TDD LTE FDD/TDD WCDMA/HSPA+ GPS/GLONASS/Beidou/Galileo
Bluetooth	<ul style="list-style-type: none"> • 64-bit/128-bit WEP • AES-CCMP • TKIP 	Not applicable	Not applicable
Encryption	Bluetooth 5.1	Not applicable	Not applicable

Audio

Table 10. Audio specifications

Description	Values
Controller	Realtek ALC714-CG
Stereo conversion	Supported
Internal interface	SoundWire 1.1
External interface	Universal audio jack
Speakers	Two
Internal speaker amplifier	Realtek ALC1309D
External volume controls	Keyboard shortcut controls
Speaker output:	
Average	4 W
Peak	5 W
Subwoofer output	Not supported
Microphone	Quad-array microphones

Storage

Your computer supports one of the following configurations:

- M.2 2230 Solid-state drive
- M.2 2230 Opal self-encrypting solid-state drive

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

- M.2 2230 Solid-state drive
- M.2 2230 Opal Self-encrypting solid-state drive

Table 11. Storage specifications

Form factor	Interface type	Capacity
M.2 2230 Class 35 Solid-state drive	Gen 3 PCIe x4 NVMe	Up to 1 TB
M.2 2230 Class 35 Opal Self-encrypting solid-State drive	Gen 3 PCIe x4 NVMe	256 GB

Media-card reader

Table 12. Media-card reader specifications

Description	Values
Type	One microSD 4.0 card
Cards supported	<ul style="list-style-type: none"> • Micro Secure Digital (mSD) • Micro Secure Digital High Capacity(mSDHC) • Micro Secure Digital Extended Capacity(mSDXC)

Keyboard

Table 13. Keyboard specifications

Description	Values
Type	White backlight keyboard
Layout	QWERTY
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	<p>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.</p> <p>NOTE: You can define the primary behavior of the function keys (F1–F12) changing Function Key Behavior in BIOS setup program.</p>

Camera

Table 14. Camera specifications

Description	Values
Number of cameras	One
Type	RGB/IR camera
Location	Front Camera
Sensor type	CMOS RGB-Ir Hybrid Technology
Resolution	
Standard Camera	
Still image	0.90 megapixel
Video	1280 x 720 (HD) at 30 fps
Infrared camera	
Still image	0.92 megapixel
Video	640 x 360 at 30 fps
Diagonal viewing angle	
Camera	78 degrees
Infrared camera	78 degrees

Touchpad

The following table lists the touchpad specifications of your Dell Latitude 9520.

Table 15. Touchpad specifications

Description	Values
Touchpad resolution:	
Horizontal	3562
Vertical	2026
Touchpad dimensions:	
Horizontal	115 mm (4.53 in.)
Vertical	67 mm (2.64 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

Table 16. Power adapter specifications

Description	Values		
Type	60 W Type-C	65 W Type-C	90 W Type-C
Input voltage	100 VAC x 240 VAC	100 VAC x 240 VAC	100 VAC x 240 VAC
Input frequency	50 Hz x 60 Hz	50 Hz x 60 Hz	50 Hz x 60 Hz
Input current (maximum)	1.70 A	1.70 A	1.50 A
Output current (continuous)	<ul style="list-style-type: none"> ● 20 VDC / 3 A ● 15 VDC / 3 A ● 9 VDC / 3 A ● 5 VDC / 3 A 	<ul style="list-style-type: none"> ● 20 VDC / 3.25 A ● 15 VDC / 3 A ● 9 VDC / 3 A ● 5 VDC / 3 A 	<ul style="list-style-type: none"> ● 20 VDC / 4.5 A ● 15 VDC / 3 A ● 9 VDC / 3 A ● 5 VDC / 3 A
Rated output voltage	<ul style="list-style-type: none"> ● 20 VDC ● 15 VDC ● 9 VDC ● 5 VDC 	<ul style="list-style-type: none"> ● 20 VDC ● 15 VDC ● 9 VDC ● 5 VDC 	<ul style="list-style-type: none"> ● 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)	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)	-40°C to 70°C (-40°F to 158°F)

Battery

Table 17. Battery specifications

Description	Values		
Type	4-cell, 49 WHr ExpressCharge 2	4-cell, 49 WHr ExpressCharge, Long Life Cycle	6-cell, 88 WHr ExpressCharge
Voltage	7.6 VDC	7.6 VDC	11.40 VDC
Weight (maximum)	0.24 kg (0.59 lb)	0.24 kg (0.59 lb)	0.36 kg (0.79 lb)
Dimensions:			
	Height	260 mm (10.23 in.)	260 mm (10.23 in.)
	Width	85.80 mm (3.37 in.)	88.80 mm (3.49 in.)
	Depth	5.070 mm (0.19 in.)	9.60 mm (0.37 in.)
Temperature range:			
	Operating	0°C to 50°C (32°F to 122°F)	0°C to 50°C (32°F to 122°F)
	Storage	-20°C to 60°C (-4°F to 140°F)	-20°C to 60°C (-4°F to 140°F)

Table 17. Battery specifications (continued)

Description	Values		
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.	Varies depending on operating conditions and can significantly reduce under certain power-intensive conditions.
Charging time (approximate)	4 hours (when the computer is off)	4 hours (when the computer is off)	<ul style="list-style-type: none"> ● Standard charge: 0°C to 50°C: 4 hours ● Express Charge: 0°C to 15°C: 4 hours; 16°C to 45°C: 2 hours; 46°C to 50°C: 3 hours <p>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 https://www.dell.com/</p> <p>LLC battery only supports the standard charge.</p>
Life span (approximate)	300 discharge/charge cycles	300 discharge/charge cycles	1000 discharge/charge cycle on LLC (Long life cycle) battery
Coin-cell battery	Not supported	Not supported	Not supported
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.	Varies depending on operating conditions and can significantly reduce under certain power-intensive conditions.

Display

Table 18. Display specifications

Description	Values		
Type	Full High Definition (FHD)	Full High Definition (FHD)	Ultra-High Definition (UHD)
Panel technology	Wide Viewing Angle(WVA)	Wide Viewing Angle(WVA)	Wide Viewing Angle(WVA)
Luminance (typical)	400 nits	400 nits	500 nits
Dimensions			
Height	186.30 mm (7.33 in.)	186.30 mm (7.33 in.)	186.30 mm (7.33 in.)
Width	331.20 mm (13.04 in.)	331.20 mm (13.04 in.)	331.20 mm (13.04 in.)
Diagonal	380.00 mm (14.96 in.)	380.00 mm (14.96 in.)	380.00 mm (14.96 in.)

Table 18. Display specifications (continued)

Description	Values		
Native resolution	1920 x 1080	1920 x 1080	3840 x 2160
Megapixels	2.07	2.07	8.29
Color gamut	sRGB 100%	sRGB 100%	sRGB 100%
Pixels per inch (PPI)	147	147	282
Contrast ratio (min)	1200:1	1200:1	1200:1
Response time (max)	35 ms	35 ms	35 ms
Refresh rate	60 Hz	60 Hz	60 Hz
Horizontal view angle (min)	80 degrees	80 degrees	80 degrees
Vertical view angle (min)	80 degrees	80 degrees	80 degrees
Pixel pitch	0.172 mm	0.172 mm	0.086 mm
Power consumption (max)	2.55 W	2.65 W	5.35 W
Anti-reflective vs Anti-smudge	Anti-glare	Anti Reflective / Anti Smudge	Anti-glare
Touch options	No	Yes	No
Stylus support	No	Yes	No

Fingerprint reader (optional)

Table 19. Fingerprint reader specifications

Description	Values
Sensor technology	Capacitive
Sensor resolution	363 dpi
Sensor area	5.25mm x 6.90 mm
Sensor pixel size	76 x 100

GPU — Integrated

The following table lists the specifications of the integrated Graphics Processing Unit (GPU) supported by your Dell Latitude 9520.

Table 20. GPU — Integrated

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

Security

Table 21. Security specifications

Description	Values
Trusted Platform Module (TPM) 2.0	Integrated on the system board
FIPS 140-2 certification for TPM	Supported
ControlVault 3 Advanced Authentication with FIPS 140-2 Level 3 Certification	Supported
Fingerprint Reader	Fingerprint reader in power button tied to Control Vault 3 (optional)
Contacted Smart Card and Control Vault 3	FIPS201 Smart Card reader certification / SIPR
SED SSD NVMe, SSD and HDD (Opal and non-Opal)	Opal 2.0 - PCIe interface
Dell Power Manager 3.0	Supported
Dell Command Configure 4.0 (DCC) with Remote BIOS configuration	Supported
Dell Command Monitor 10.0 (DCM)	Supported
Dell Command Update 3.0 (DCU)	Supported
Dell Command Update Catalog (DCUC)	Supported
Dell Command Deploy (DCP)	Supported
Dell Command Intel® vPro™ Out of Band (DCIV)	Supported
Dell Command PowerShell Provider 2.0	Supported
Dell Command Deploy Driver Pack Catalog 1.0	Supported

Computer environment

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 (maximum)	-15.2 m to 3048 m (4.64 ft to 5518.4 ft)	-15.2 m to 10668 m (4.64 ft to 19234.4 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

Topics:

- [Keyboard shortcuts](#)

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.

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 that is shown on the lower part of the key sees the character that is typed out when the key is pressed. If you press shift and the key, the symbol that is 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 primary behavior is the media keys, and the secondary behavior is the F1-F12 keys.

Function (Fn) lock only switches between primary and secondary behavior on F1-F12 keys only.

F9 has the same function as F9 behavior as there is no secondary behavior.

Table 23. List of keyboard shortcuts










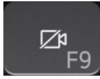

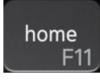
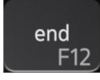

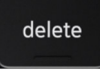
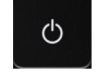
Function key	Primary Behavior
	Mute audio
	Decrease volume
	Increase volume
	Mute Microphone
	Toggle keyboard backlight NOTE:  Non-backlight keyboards have F5 function key without the backlight icon and does not support toggle keyboard backlight function.
	Decrease brightness
	Increase brightness
	Switch to external display

Table 23. List of keyboard shortcuts (continued)

Function key	Primary Behavior
	SafeShutter control
	F10 function / Print screen
	Home
	End
	Insert
	Delete
	Power button

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

Table 24. Secondary behavior



Function key	Behavior
Fn + Esc	Toggle between power and battery-status light/hard-drive activity light
Fn + F1	F1 behavior
Fn + F2	F2 behavior
Fn + F3	F3 behavior
Fn + F4	F4 behavior
Fn + F5	F5 behavior
Fn + F6	F6 behavior
Fn + F7	F7 behavior
Fn + F8	F8 behavior
Fn + F9	F9 behavior
Fn + F10	F10 behavior
Fn + F11	F11 behavior
Fn + F12	F12 behavior
Fn + Insert	Insert
Fn + Delete	Delete

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 on your computer .
Dell knowledge base articles for a variety of computer concerns	<ol style="list-style-type: none"> 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.