Latitude 9520

Setup and specifications guide

1

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.**

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

Contents

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 Windows setup.

   Follow the on-screen instructions to complete the setup. When setting up, Dell recommends that you:
   - Connect to a network for Windows updates.
     ⓘ **NOTE:** If connecting to a secured wireless network, enter the password for the wireless network access when prompted.
   - If connected to the internet, sign-in with or create a Microsoft account. If not connected to the internet, create an offline account.

   - On the **Support and Protection** screen, enter your contact details.

3. Locate and use Dell apps from the Windows Start menu—Recommended

Table 1. Locate Dell apps

Resources	Description
	My Dell Centralized location for key Dell applications, help articles, and other important information about your computer. It also notifies you about the warranty status, recommended accessories, and software updates if available.

Table 1. Locate Dell apps (continued)

Resources	Description
	SupportAssist Pro-actively checks the health of your computer's hardware and software. The SupportAssist OS Recovery tool troubleshoots issues with the operating system. For more information, see the SupportAssist documentation at www.dell.com/support. ⓘ **NOTE:** In SupportAssist, click the warranty expiry date to renew or upgrade your warranty.
	Dell Update Updates your computer with critical fixes and latest device drivers as they become available. For more information about using Dell Update, see the knowledge base article SLN305843 at www.dell.com/support.
	Dell Digital Delivery Download software applications, which are purchased but not pre-installed on your computer. For more information about using Dell Digital Delivery, see the knowledge base article 153764 at www.dell.com/support.

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.

2

Chassis overview

Topics:

Display view (2-in-1)

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

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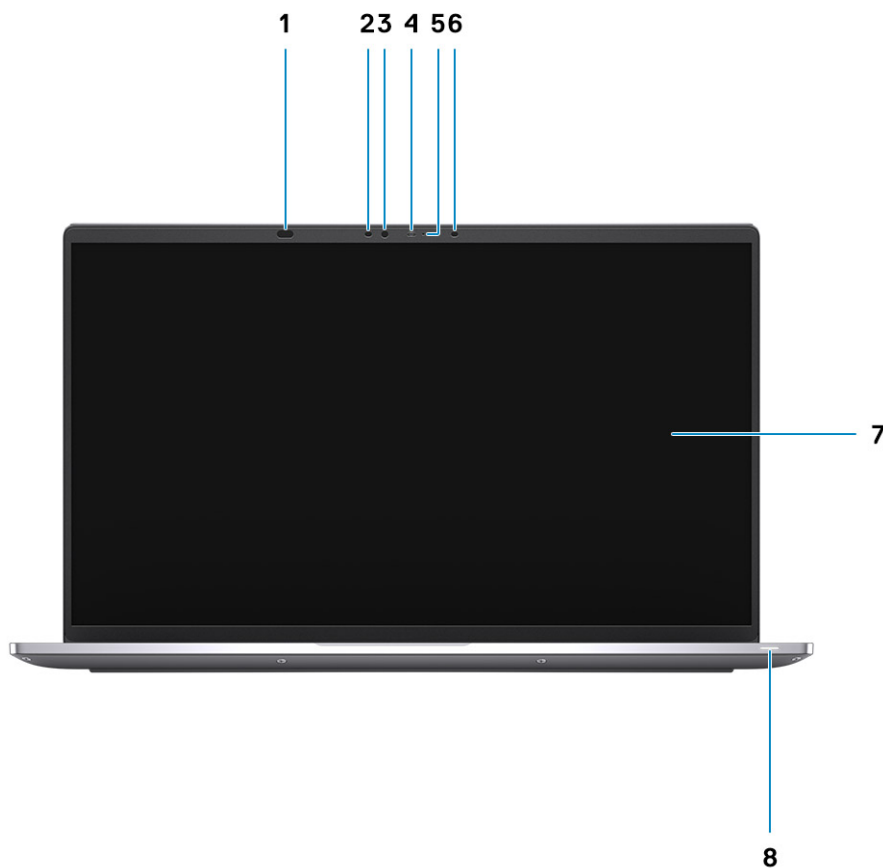
1. Proximity sensor
3. Ambient Light Sensor (ALS)
5. Camera (RGB/IR) with SafeShutter
7. Display panel

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

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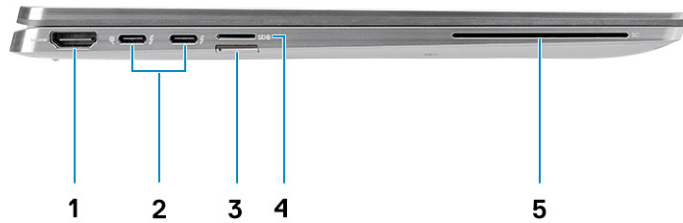
1. HDMI 2.0 port
2. Thunderbolt 4 port with DisplayPort Alt Mode/USB4/Power Delivery
3. SIM-card slot (optional)
4. microSD-card slot
5. Smart card reader slot (optional)

Right view

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

Bottom view
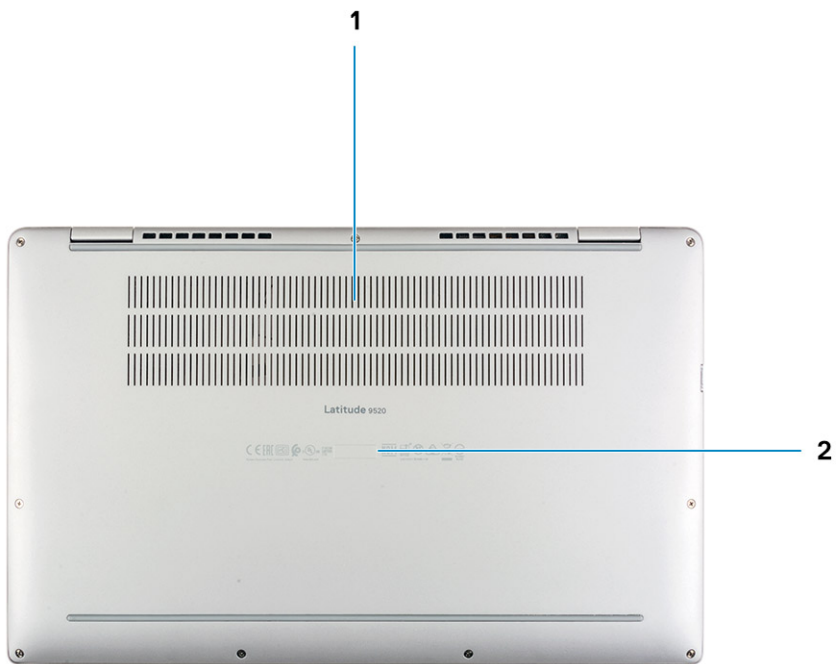
1. Air vents
2. Service tag label

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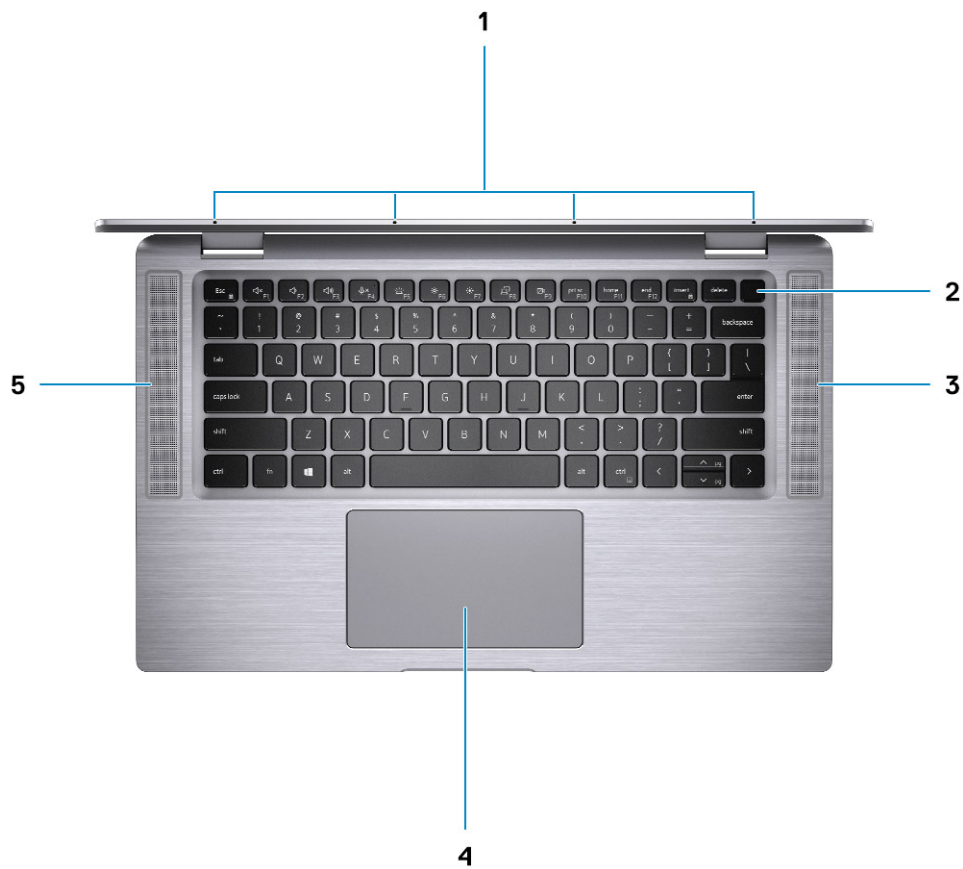
1. Quad-array microphones
3. Right speaker
5. Left speaker
2. Power button with fingerprint reader (optional)
4. Touchpad with RFID reader (optional)

Top view (Notebook)
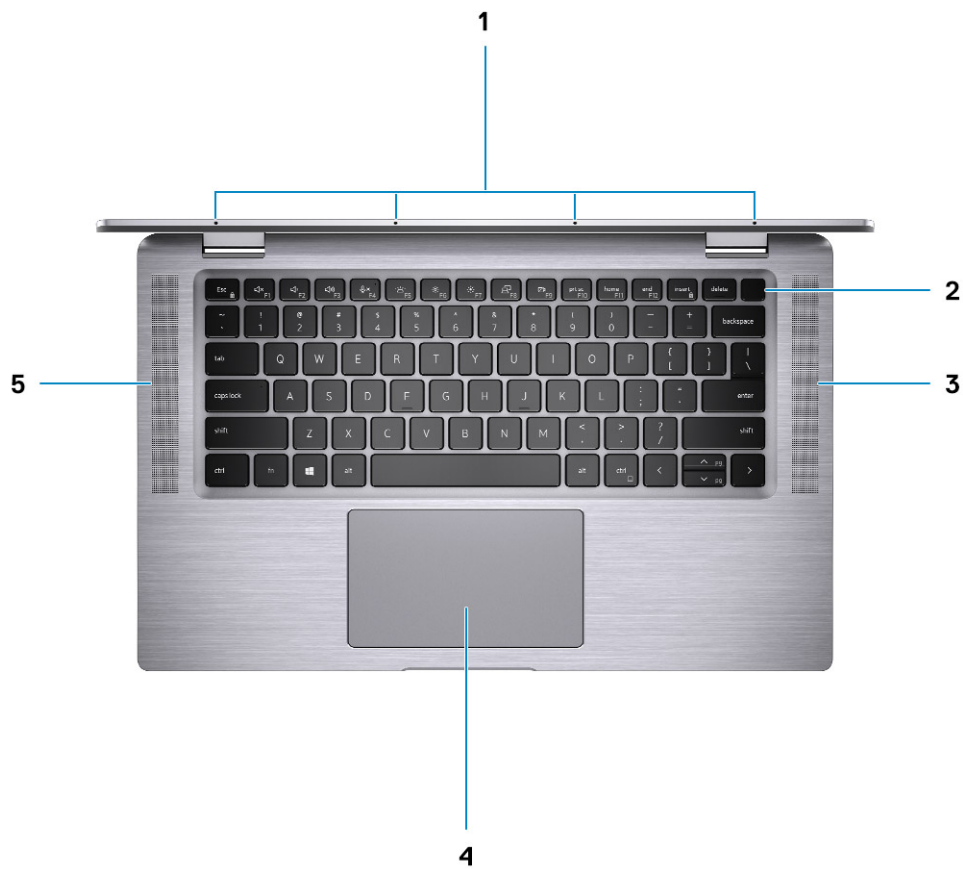
1. Quad-array microphones
3. Right speaker
5. Left speaker

2. Power button with finger print reader (optional)
4. Touchpad with RFID reader (optional)

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

> (i) **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

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	● Laptop: 1.4 kg/3.1 lbs ● 2-in-1: 1.5 kg/3.3 lbs

Processors

Table 4. Processors

Description	Values		
Processors	11th Generation Intel Core i5-1135G7	11th Generation Intel Core i5-1145G7	11th Generation Intel Core i7-1185G7
Wattage	● Max TDP: 28 W ● cTDP: 12 ~ 15 W	● Max TDP: 28 W ● cTDP: 12 ~ 15 W	● Max TDP: 28 W ● cTDP: 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 Xe Graphics	Intel Iris Xe Graphics	Intel Iris Xe Graphics

Chipset

Table 5. Chipset

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

Operating system

- Windows 10 Pro (64-bit)
- Windows 10 Home (64-bit)
- Ubuntu Linux 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	8 GB, Onboard, LPDDR4x, 4267 MHz 16 GB, Onboard, LPDDR4x, 4267 MHz 32 GB, Onboard, LPDDR4x, 4267 MHz

Ports and connectors

Table 7. External ports and connectors

Description	Values
External:	
USB	- One USB 3.2 Gen 1 Type-A port with PowerShare - Two Thunderbolt 4 ports with Power Delivery/DisplayPort Alt Mode/USB 4
Audio	One universal audio port
Video	One HDMI 2.0 port
Power adapter port	USB-C type
Security	One Wedge-shaped lock slot
Card slot	One microSD 4.0 card slot
SIM card	microSIM card slot

Table 8. Internal ports and connectors

Description	Values
Internal:	
One M.2 Key-M (2230) for Solid-State Drive One M.2 3042 Key-B for WWAN	- One M.2 slot for 2230 solid-state drive - One M.2 3042 slot for WWAN **NOTE:** Latitude 9520 has an onboard WLAN card. **NOTE:** To learn more about the features of different types of M.2 cards, see article number 000144170.

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	- 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	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	2 W per channel
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	- 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	- 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 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 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

Table 15. Touchpad specifications

Description		Values
Resolution:		
	Horizontal	3562
	Vertical	2026
Dimensions:		
	Horizontal	115 mm (4.53 in.)
	Vertical	67 mm (2.64 in.)

Touchpad gestures

For more information about touchpad gestures for Windows 10, 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)	• 20 VDC / 3 A • 15 VDC / 3 A • 9 VDC / 3 A • 5 VDC / 3 A	• 20 VDC / 3.25 A • 15 VDC / 3 A • 9 VDC / 3 A • 5 VDC / 3 A	• 20 VDC / 4.5 A • 15 VDC / 3 A • 9 VDC / 3 A • 5 VDC / 3 A
Rated output voltage	• 20 VDC • 15 VDC • 9 VDC • 5 VDC	• 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)	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.)	260 mm (10.23 in.)
Width	85.80 mm (3.37 in.)	85.80 mm (3.37 in.)	88.80 mm (3.49 in.)
Depth	5.070 mm (0.19 in.)	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)	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 149°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)	• 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 ⓘ **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 https://www.dell.com/ LLC battery only supports the standard charge.
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 Xe Graphics	● One HDMI 2.0b ● Two Thunderbolt 4 ports with DisplayPort Alt Mode	Shared system memory	Intel 11th 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 tp 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
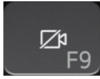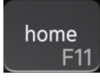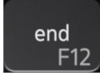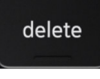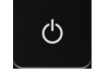
Function key	Primary Behavior
◁× F1	Mute audio
◁ᶦ F2	Decrease volume
◁ᵗ F3	Increase volume
🎤× F4	Mute Microphone
☼ F5	Toggle keyboard backlight **NOTE:** ⓘ Non-backlight keyboards have F5 function key without the backlight icon and does not support toggle keyboard backlight function.
☼ F6	Decrease brightness
☼ F7	Increase brightness
🖥 F8	Switch to external display

Table 23. List of keyboard shortcuts (continued)

Function key	Primary Behavior
F9	SafeShutter control
prt sc / F10	F10 function / Print screen
home / F11	Home
end / F12	End
insert	Insert
delete	Delete
(power icon)	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

Topics:

*   Getting help and contacting Dell

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 `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	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.

(i) **NOTE:** Availability varies by country/region and product, and some services may not be available in your country/region.

(i) **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.