Specifications of Latitude 5420

Topics:

Dimensions and weight

Table 4. Dimensions and weight

Description	Values
Height:	
Front	0.76 in. (19.30 mm)
Rear	0.82 in. (20.90 mm)
Width	12.65 in. (321.35 mm)
Depth	8.35 in. (212.00 mm)
Weight (maximum)	3.09 lb (1.40kg) ⓘ **NOTE:** The weight of your computer depends on the configuration ordered and the manufacturing variability.

Processors

ⓘ **NOTE:** Processor numbers are not a measure of performance. Processor availability subject to change and may vary by region/country.

Table 5. Processors

Processors	Wattage	Core count	Thread count	Speed	Cache	Integrated graphics
10th Generation Intel Core i5-10210U	15 W	4	8	1.60 GHz to 4.20 GHz	6 MB	Intel UHD Graphics
10[th]Generation Intel Core i5-10310U	15 W	4	8	1.70 GHz to 4.40 GHz	6 MB	Intel UHD Graphics
10th Generation Intel Core i7-10610U	15 W	4	8	1.80 GHz to 4.90 GHz	8 MB	Intel UHD Graphics
11th Generation Intel Core i3-1125G4	17.50 W	4	8	2.00 GHz to 3.70 GHz	8 MB	Intel UHD Graphics
11th Generation Intel Core i5-1135G7	17.50 W	4	8	2.40 GHz to 4.20 GHz	8 MB	Intel Iris Xe Graphics
11th Generation Intel Core i5-1145G7	17.50 W	4	8	2.60 GHz to 4.40 GHz	8 MB	Intel Iris Xe Graphics
11th Generation Intel Core i7-1165G7	17.50 W	4	8	2.80 GHz to 4.70 GHz	12 MB	Intel Iris Xe Graphics
11th Generation Intel Core i7-1185G7	17.50 W	4	8	3.00 GHz to 4.80 GHz	12 MB	Intel Iris Xe Graphics

Chipset

Table 6. Chipset

Description	Values
Chipset	Intel PCH-LP
Processor	10th Generation Intel Core i5/i7 processors 11th Generation Intel Core i3/i5/i7 processors
DRAM bus width	64-bit
Flash EPROM	32 MB
PCIe bus	Up to Gen 3

Operating system

- Windows 10 Pro, 64-bit
- Windows 10 Home, 64-bit
- Windows 10 Pro Education, 64-bit
- Windows 10 Enterprise N, 64-bit
- Ubuntu Linux 20.04 LTS, 64-bit

Memory

Table 7. Memory specifications

Description	Values
Slots	Two SO-DIMM slots
Type	DDR4, Dual-channel
Speed	3200 MHz
Maximum memory	64 GB
Minimum memory	4 GB
Memory size per slot	4 GB, 8 GB, 16 GB, 32 GB
Configurations supported	4 GB, 1 x 4 GB, DDR4, 3200 MHz 8 GB, 2 x 4 GB, DDR4, 3200 MHz 8 GB, 1 x 8 GB, DDR4, 3200 MHz 16 GB, 2 x 8 GB, DDR4, 3200 MHz 16 GB, 1 x 16 GB, DDR4, 3200 MHz 32 GB, 2 x 16 GB, DDR4, 3200 MHz 64 GB, 2 x 32 GB, DDR4, 3200 MHz

Ports and connectors

Table 8. External ports and connectors

External:	
USB	- One USB 3.2 Gen 1 port - One USB 3.2 Gen 1 port with PowerShare - Two Thunderbolt 4 ports with DisplayPort Alt Mode/ USB4/Power Delivery
Audio	One universal audio port
Video	One HDMI 2.0 port
Media card reader	One micro SD-card slot
Docking port	Supported through USB Type-C
Power adapter port	Type-C power input
Security	One wedge-shaped lock slot
Communication	- RJ45 port - microSIM card (optional)
Card slot	Smart card reader slot (optional)

Table 9. Internal ports and connectors

Internal:	
M.2	M.2 2230 slot for Wi-Fi and Bluetooth combo card

Table 9. Internal ports and connectors

Internal:	
	• M.2 3042 for WWAN • Two M.2 2280/2230 slot for solid-state drive ⓘ **NOTE:** To learn more about the features of different types of M.2 cards, see the knowledge base article SLN301626.

Communications

Ethernet

Table 10. Ethernet specifications

Description	Values
Model number	• Intel I219-LM • Intel I219-V
Transfer rate	10/100/1000 Mbps

Wireless module

Table 11. Wireless module specifications

Description	Values		
Model number	Intel Wi-Fi 6 AX201	Intel Wi-Fi 6 AX210	Qualcomm QCA61x4A
Transfer rate	Up to 2400 Mbps	Up to 2400 Mbps	Up to 867 Mbps
Frequency bands supported	2.4 GHz/5 GHz	2.4 GHz/5 GHz/6 GHz	2.4 GHz/5 GHz
Wireless standards	• Wi-Fi 802.11a/b/g • Wi-Fi 4 (Wi-Fi 802.11n) • Wi-Fi 5 (Wi-Fi 802.11ac) • Wi-Fi 6 (Wi-Fi 802.11ax)	• Wi-Fi 802.11a/b/g • Wi-Fi 4 (Wi-Fi 802.11n) • Wi-Fi 5 (Wi-Fi 802.11ac) • Wi-Fi 6 (Wi-Fi 802.11ax)	• Wi-Fi 802.11a/b/g • Wi-Fi 4 (Wi-Fi 802.11n) • Wi-Fi 5 (Wi-Fi 802.11ac)
Encryption	• 64-bit/128-bit WEP • AES-CCMP • TKIP	• 64-bit/128-bit WEP • AES-CCMP • TKIP	• 64-bit/128-bit WEP • AES-CCMP • TKIP
Bluetooth	Bluetooth 5.1	Bluetooth 5.2	Bluetooth 5.0

WWAN module

Table 12. Wireless module specifications

Description	Values
Model number	Intel XMM 7360 Global LTE-Advanced, CAT9
Transfer rate	Up to 450 Mbps DL/50 Mbps UL (Cat 9)

Table 12. Wireless module specifications (continued)

Description	Values
Frequency bands supported	(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)
Wireless standards	Not Applicable
Encryption	Not Applicable
Bluetooth	Not Applicable

Audio

Table 13. Audio specifications

Description		Values
Controller		REALTEK ALC3204
Stereo conversion		Supported
Internal interface		High definition audio interface
External interface		Universal audio port
Speakers		Two
Internal speaker amplifier		Supported (audio codec integrated)
External volume controls		Keyboard shortcut controls
Speaker output:		
	Average	2 W
	Peak	2.5 W
Subwoofer output		Not supported
Microphone		Dual-array microphones

Storage

Your computer supports one of the following configurations:
● One M.2 2230, Gen 3 PCIe x4 NVMe, Class 35 SSD (slot 1)
● One M.2 2280, Gen 3 PCIe x4 NVMe, Classs 40 SSD (slot 1)
● One M.2 2280, Gen 3 PCIe x4 NVMe, Class 40 SSD, Self-encrypting drive (slot 1)
The primary drive of your computer varies with the storage configuration.

Table 14. Storage specifications

Form factor	Interface type	Capacity
M.2 2230, Class 35 solid-state drive	Gen 3 PCIe x4 NVMe	Up to 512 GB
M.2 2280, Class 40 solid-state drive	Gen 3 PCIe x4 NVMe	Up to 1 TB

Table 14. Storage specifications (continued)

Form factor	Interface type	Capacity
M.2 2280, Class 40 solid-state drive	Gen 4 PCIe x4 NVMe	Up to 2 TB
M.2 2280, Class 40 solid-state drive, Self-encrypting drive	Gen 3 PCIe x4 NVMe	Up to 512

Media-card reader

Table 15. Media-card reader specifications

Description	Values
Type	One microSD-card
Cards supported	- Micro Secure Digital (mSD) - Micro Secure Digital High Capacity (mSDHC) - Micro Secure Digital Extended Capacity (mSDXC)

Keyboard

Table 16. Keyboard specifications

Description	Values
Type	- Extended single-point non-backlit keyboard - Extended single-point backlit keyboard
Layout	QWERTY
Number of keys	- United States and Canada: 99 keys - United Kingdom: 100 keys - Japan: 103 keys
Size	X=18.05 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. ⓘ **NOTE:** You can define the primary behavior of the function keys (F1–F12) by changing the **Function Key Behavior** in system setup program. Keyboard shortcuts

Camera

Table 17. Camera specifications

Description	Values
Number of cameras	Two

Table 17. Camera specifications (continued)

Description			Values
Type			FHD RGB Infrared camera or HD RGB Infrared camera
Location			Front camera
Sensor type			CMOS sensor technology
Resolution			
	Camera		
		Still image	0.92 megapixel
		Video	● HD RGB Infrared camera: 1280 x 720 (HD) at 30 fps ● FHD RGB Infrared camera: 1920 x 1080 (FHD) at 30 fps
	Infrared camera		
		Still image	0.23 megapixel
		Video	640 x 360 (VGA) at 30 fps
Diagonal viewing angle			
	Camera		● HD RGB Infrared camera: 87 degrees ● FHD RGB Infrared camera: 87.6 degrees
	Infrared camera		● HD RGB Infrared camera: 87 degrees ● FHD RGB Infrared camera: 87.6 degrees

Table 18. Full HD Webcam

Description		Values
Number of cameras		One
Type		HD RGB camera
Location		Front camera
Sensor type		CMOS sensor technology
Resolution		
	Camera	
	Still image	0.92 megapixels
	Video	1280 x 720 (HD) at 30 fps
Diagonal viewing angle		78.6 degrees

Clickpad

Table 19. Clickpad specifications

Description	Values
Resolution	>=300 dpi
Dimensions:	

Table 19. Clickpad specifications (continued)

Description		Values
	Horizontal	115 mm (4.53 inch)
	Vertical	67 mm (2.64 inch)

Power adapter

Table 20. Power adapter specifications

Description	Values	
Type	65 W	90 W
Diameter (connector)	USB-C	USB-C
Input voltage	100 VAC x 240 VAC	100 VAC x 240 VAC
Input frequency	50 Hz to 60 Hz	50 Hz to 60 Hz
Input current (maximum)	1.7 A	1.5 A
Output current (continuous)	20 V/3.25 A (Continuous) 15 V/3 A (Continuous) 9.0 V/3 A (Continuous) 5.0 V/3 A (Continuous)	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)

Battery

> (i) **NOTE:** Dell recommends that you charge the battery regularly for optimal power consumption. If your battery charge is completely depleted, connect the power adapter, turn on your computer, and then restart your computer to reduce the power consumption.

Table 21. Battery specifications

Description		Values			
Type		3-cell lithium-ion 42 WHr, ExpressCharge Boost	4-cell lithium-ion 63 WHr, ExpressCharge Boost	3-cell lithium-ion 42 WHr LCL	4-cell lithium-ion 63 WHr LCL
Voltage		11.40 VDC	15.20 VDC	11.40 VDC	15.20 VDC
Weight (maximum)		0.18 kg (0.40 lb)	0.25 kg (0.55 lb)	0.18 kg (0.40 lb)	0.25 kg (0.55 lb)
Dimensions:					
	Height	5.70 mm (0.22 in.)	5.70 mm (0.22 in.)	5.70 mm (0.22 in.)	5.70 mm (0.22 in.)

Table 21. Battery specifications (continued)

Description		Values			
	Width	95.90 mm (3.78 in.)	95.90 mm (3.78 in.)	95.90 mm (3.78 in.)	95.90 mm (3.78 in.)
	Depth	207.90 mm (8.19 in.)	238.00 mm (9.37 in.)	207.90 mm (8.19 in.)	238.00 mm (9.37 in.)
Temperature range:					
	Operating	• Charge: 0 °C to 50 °C (32 °F to 122 °F) • Discharge:0 °C to 70 °C (32 °F to 158 °F)	• Charge: 0 °C to 50 °C (32 °F to 122 °F) • Discharge:0 °C to 70 °C (32 °F to 158 °F)	• Charge: 0 °C to 50 °C (32 °F to 122 °F) • Discharge:0 °C to 70 °C (32 °F to 158 °F)	• Charge: 0 °C to 50 °C (32 °F to 122 °F) • Discharge:0 °C to 70 °C (32 °F to 158 °F)
	Storage	–20 °C to 60 °C (4 °F to 140 °F)	–20 °C to 60 °C (4 °F to 140 °F)	–20 °C to 60 °C (4 °F to 140 °F)	–20 °C to 60 °C (4 °F to 140 °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.	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)		From 0% up to 35% in 20 minutes (ExpressCharge Boost), 2 hr (Express charge), 3 hr (Standard charge) (when the computer is off) ⓘ 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, on www.dell.com/	From 0% up to 35% in 20 minutes (ExpressCharge Boost), 2 hr (Express charge), 3 hr (Standard charge) (when the computer is off) ⓘ 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, on www.dell.com/	2 hr (Express charge), 3 hr (Standard charge) (when the computer is off). ⓘ 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, on www.dell.com/	2 hr (Express charge), 3 hr (Standard charge) (when the computer is off). ⓘ 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, on www.dell.com/
Life span (approximate)		1 year	1 year	3 years	3 years
Coin-cell battery		CR-2032	CR-2032	CR-2032	CR-2032
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.	Varies depending on operating conditions and can significantly reduce under certain power-intensive conditions.

Display

The following table lists the display specifications of your Latitude 5420.

Table 22. Display specifications

Description		Option one	Option two	Option three	Option four	Option five
Display type		High Definition (HD)	Full High Definition (FHD)	Full High Definition (FHD)	Full High Definition (FHD)	Full High Definition (FHD
Display-panel technology		Wide Viewing Angle (WVA)	Wide Viewing Angle (WVA)	Wide Viewing Angle (WVA),Low Blue Light (LBL)	Wide Viewing Angle (WVA)	Wide viewing angle (WVA)
Display-panel dimensions (active area):						
	Height	173.95 mm	173.95 mm	173.95 mm	173.95 mm	173.95 mm
	Width	309.4 mm	309.4 mm	309.4 mm	309.4 mm	309.4 mm
	Diagonal	355.6 mm	355.6 mm	355.6 mm	355.6 mm	355.6 mm
Display-panel native resolution		1366 x 768	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080
Luminance (typical)		220 nits	250 nits	400 nits	300 nits	300 nits
Megapixels		1.049	2.07	2.07	2.07	2.07
Color gamut		NTSC 45%	NTSC 45%	sRGB 100%	NTSC 72%	sRGB 100% typ
Pixels Per Inch (PPI)		112	157	157	157	157
Contrast ratio (typ)		300:1	600:1	1000:1	600:1	600:1
Response time (max)		25 ms	35 ms	35 ms	35 ms	35 ms
Refresh rate		60 Hz	60 Hz	60 Hz	60 Hz	60 Hz
Horizontal view angle		40 +/-degrees	80 +/-degrees	80 +/-degrees	80 +/-degrees	80 +/- degrees
Vertical view angle		- Top: 10 +/- degrees - Bottom: 30 +/- degrees	80 +/-degrees	80 +/-degrees	80 +/-degrees	80 +/- degrees
Pixel pitch		0.2265 mm x 0.2265 mm	0.161 mm x 0.161 mm	0.161 mm x 0.161 mm	0.161 mm x 0.161 mm	0.161 mm x 0.161 mm
Power consumption (maximum)		2.4 W	3.2 W	2.5 W	4.51W	3.5 W
Anti-glare vs glossy finish		Anti-glare	Anti-glare	Anti-glare	Anti-glare	Anti-glare
Touch options		No	No	No	Yes	Yes

Fingerprint reader (optional)

Table 23. Fingerprint reader specifications

Description	Power button option	FIPS option
Sensor technology	Capacitative	Capacitive
Sensor resolution	500 dpi	508 dpi
Sensor pixel size, X	108	256
Sensor pixel size, Y	88	360

Video

Table 24. Integrated graphics specifications

Integrated graphics			
Controller	External display support	Memory size	Processor
Intel Iris Xe Graphics	HDMI 2.0, DisplayPort over USB Type-C	Shared system memory	11th Generation Intel Core i5/i7 Processors ⓘ **NOTE:** System with single-channel memory is shown as **Intel UHD Graphics** in Intel Graphics Command Center (IGCC).
Intel UHD Graphics	HDMI 2.0, DisplayPort over USB Type-C	Shared system memory	11th Generation Intel Core i3 Processors
Intel UHD Graphics	HDMI 1.4, DisplayPort over USB Type-C	Shared system memory	10th Generation Intel Core i5/i7 Processors

Security

Table 25. Hardware Security

Hardware security options
Trusted Platform Module (TPM) 2.0 discrete
FIPS 140-2 certification for TPM
TCG (Trusted Computing Group) Certification for TPM
Fingerprint reader in power button tied to ControlVault 3
ControlVault 3 Advanced Authentication with FIPS 140-2 Level 3 Certification
Contacted Smart Card and ControlVault 3
Contactless Smart Card, NFC, and ControlVault 3
SED SSD NVMe, SSD and HDD (Opal and non-Opal) per SDL

Table 25. Hardware Security (continued)

Hardware security options
FIPS 201 Full Scan FPR and ControlVault 3

Table 26. Data Security

Data security options
McAfee Small Business Security 30-day trial
McAfee Small Business Security 12-months subscription, digitally delivered
McAfee Small Business Security 24-months subscription, digitally delivered
McAfee Small Business Security 36-months subscription, digitally delivered

Computer environment

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

Table 27. Computer environment

Description	Operating	Storage
Temperature range	0°C to 40°C (32°F to 104°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†	140 G†
Altitude (maximum)	-15.2 m to 3048 m (-50 ft to 10000 ft)	-15.2 m to 10668 m (-50 ft to 35000 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.

Sensor and control

Table 28. Sensor and control

Sensor support	
Sensor	Ambient Light Sensor on the hinge-up (optional)
	P-sensor on the hinge-up (optional)
	Accelerometer (G sensor): One on the base (system board) and another on the hinge-up (optional)