


Specifications of Latitude 7420

Dimensions and weight

The following table lists the height, width, depth, and weight of your Latitude 7420.

Table 3. Dimensions and weight

Description	Values
Height:	
Front height	<ul style="list-style-type: none">• 17.27 mm (0.68 in.) - Carbon Fiber• 16.90 mm (0.67 in.) - Aluminium• 17.06 mm (0.67 in.) - Carbon Fiber (2-in-1)• 16.40 mm (0.64 in.) - Aluminium (2-in-1)
Rear height	<ul style="list-style-type: none">• 18.88 mm (0.74 in.) - Carbon Fiber• 18.00 mm (0.708 in.) - Aluminium• 18.91 mm (0.74 in.) - Carbon Fiber (2-in-1)• 18.70 mm (0.736 in.) - Aluminium (2-in-1)
Width	<ul style="list-style-type: none">• 321.35 mm (12.65 in.) - Carbon Fiber• 321.35 mm (12.65 in.) - Aluminium• 321.35 mm (12.65 in.) - Carbon Fiber (2-in-1)• 321.35 mm (12.65 in.) - Aluminium (2-in-1)
Depth	<ul style="list-style-type: none">• 208.69 mm (8.22 in.) - Carbon Fiber• 208.69 mm (8.22 in.) - Aluminium• 208.69 mm (8.22 in.) - Carbon Fiber (2-in-1)• 208.69 mm (8.22 in.) - Aluminium (2-in-1)
Weight (maximum)	<ul style="list-style-type: none">• 1.22 kg (2.70 lb) - Carbon Fiber• 1.31 kg (2.89 lb) - Aluminium• 1.36 kg (3.00 lb) - Carbon Fiber (2-in-1)• 1.46 kg (3.23 lb) - Aluminium (2-in-1) <p> NOTE: The weight of your computer depends on the configuration ordered and manufacturing variability.</p>

Processor

The following table lists the details of the processors supported by your Latitude 7420.

Table 4. Processor

Description	Option one	Option two	Option three	Option four
Processor type	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

Table 4. Processor (continued)

Description	Option one	Option two	Option three	Option four
Processor wattage	<ul style="list-style-type: none"> Maximum TDP: 28 W cTDP: 13 W - 15 W 	<ul style="list-style-type: none"> Maximum TDP: 28 W cTDP: 13 W - 15 W 	<ul style="list-style-type: none"> Maximum TDP: 28 W cTDP: 13 W - 15 W 	<ul style="list-style-type: none"> Maximum TDP: 28 W cTDP: 13 W - 15 W
Processor core count	4	4	4	4
Processor thread count	8	8	8	8
Processor 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
Processor 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

The following table lists the details of the chipset supported by your Latitude 7420.

Table 5. Chipset

Description	Values
Chipset	Tiger Lake U PCH
Processor	11 th Generation Intel Core i5/i7
DRAM bus width	64-bit
Flash EPROM	32 MB
PCIe bus	Up to Gen4

Operating system

Your Latitude 7420 supports the following operating systems:

- Windows 11 Home, 64-bit
- Windows 11 Pro, 64-bit
- Windows 11 Pro National Academic, 64-bit
- Windows 10 Home, 64-bit
- Windows 10 Pro, 64-bit
- Ubuntu 20.04 LTS, 64-bit


Memory

The following table lists the memory specifications of your Latitude 7420.

Table 6. Memory specifications

Description	Values
Memory slots	Integrated on the system board.


Table 6. Memory specifications (continued)

Description	Values
	 NOTE: You cannot upgrade the memory on your Latitude 7420
Memory type	Dual-channel LPDDR4x
Memory speed	4267 MHz
Maximum memory configuration	32 GB
Minimum memory configuration	8 GB
Memory size per slot	8 GB, 16 GB, 32 GB
Memory configurations supported	<ul style="list-style-type: none"> • 8 GB • 16 GB • 32 GB

Internal slots

The following table lists the internal slots of your Latitude 7420.

Table 7. Internal slots

Description	Values
M.2	One M.2 2230/2280 Keyed M slot for solid-state drive  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 .

External ports

The following table lists the external ports on your Latitude 7420.

Table 8. External ports

Description	Values
USB ports	<ul style="list-style-type: none"> • One USB 3.2 Gen 1 port with PowerShare • Two Thunderbolt 4 ports with DisplayPort Alt Mode/USB4/Power Delivery
Audio port	Universal audio jack
Video port/ports	<ul style="list-style-type: none"> • One HDMI 2.0 port • Two Thunderbolt 4 ports with DisplayPort Alt Mode/USB4/Power Delivery
Media-card reader	One microSD-card slot
Power-adaptor port	USB Type-C port with Power Delivery
Security-cable slot	One wedge-shaped lock slot

Wireless module

The following table lists the Wireless Local Area Network (WLAN) module supported on your Latitude 7420.

Table 9. Wireless module specifications

Description	Values
Model number	Intel AX201
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	<ul style="list-style-type: none"> • WiFi 802.11a/b/g • Wi-Fi 4 (WiFi 802.11n) • Wi-Fi 5 (WiFi 802.11ac) • Wi-Fi 6 (802.11ax)
Encryption	<ul style="list-style-type: none"> • 64-bit and 128-bit WEP • TKIP • 128-bit AES-CCMP • 256-bit AES-GCMP
Bluetooth	Bluetooth 5.1

WWAN module

The following table lists the Wireless Wide Area Network (WWAN) module supported on your Latitude 7420.

WWAN module specifications

Description	Option one	Option two
Model number	<ul style="list-style-type: none"> • Qualcomm Snapdragon X20 Gigabit LTE CAT 16 (DW5821e; 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, US only 	<ul style="list-style-type: none"> • Qualcomm Snapdragon X20 LTE-A CAT 9 (DW5829e; 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, US only
Transfer rate	up to 1 Gbps DL/150 Mbps UL (Cat 16)	up to 450 Mbps DL/75 Mbps UL (Cat 9)
Frequency bands supported	<ul style="list-style-type: none"> • 1, 2, 3, 4, 5, 7, 8, 12, 13, 14, 17, 18, 19, 20, 25, 26, 28, 29, 30, 32, 38, 39, 40, 41, 42, 43, 46, 66 • HSPA+ (1, 2, 4, 5, 6, 8, 9, 19) 	<ul style="list-style-type: none"> • 1, 2, 3, 4, 5, 7, 8, 12, 13, 14, 17, 18, 19, 20, 25, 26, 28, 29, 30, 32, 38, 39, 40, 41, 66 • HSPA+ (1, 2, 4, 5, 6, 8)
Network standards	<ul style="list-style-type: none"> • LTE FDD/TDD • WCDMA/HSPA+ • GPS/GLONASS/Beidou/Galileo 	<ul style="list-style-type: none"> • LTE FDD/TDD • WCDMA/HSPA+ • GPS/GLONASS/Beidou/Galileo

Description	Option one	Option two
Antenna connector	<ul style="list-style-type: none"> • WWAN Main Antenna X 1 • WWAN Diversity Antenna X 1 • 4 x 4 MIMO Antenna x 2 	<ul style="list-style-type: none"> • WWAN Main Antenna X 1 • WWAN Diversity Antenna X 1
Temperature	<ul style="list-style-type: none"> • Normal operating temperature: -30°C to + 70°C • Extended Operating temperature: -40°C to +85°C 	<ul style="list-style-type: none"> • Normal operating temperature: -30°C to + 70°C • Extended Operating temperature: -40°C to +85°C

Audio

The following table lists the audio specifications of your Latitude 7420.

Table 10. Audio specifications

Description	Values
Audio controller	Realtek ALC3281-CG
Stereo conversion	Supported
Internal audio interface	High-definition audio
External audio interface	Universal audio jack
Number of speakers	Two
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	Dual-array microphones

Storage

Your computer supports the following configuration: The primary drive of your computer varies with the storage configuration.

- M.2 2230, PCIe x4 NVMe, Class 35 solid-state drive
- M.2 2280, PCIe x4 NVMe, Class 40 solid-state drive
- M.2 2280, PCIe x4 NVMe, Class 40 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 512 GB
M.2 2280, Class 40 solid-state drive	Gen 3 PCIe x4 NVMe	Up to 1 TB
M.2 2280, Class 40 Self encrypting solid-state drive	Gen 3 PCIe x4 NVMe	Up to 512 GB

Media-card reader

The following table lists the media cards supported by your Latitude 7420.

Table 12. Media-card reader specifications

Description	Values
Media-card type	One micro-SD card slot
Media-cards supported	<ul style="list-style-type: none">• Micro Secure Digital (mSD)• Micro Secure Digital High Capacity (mSDHC)• Micro Secure Digital Extended Capacity (mSDXC)
<p>NOTE: The maximum capacity supported by the media-card reader varies depending on the standard of the media card installed in your computer.</p>	

Keyboard

The following table lists the keyboard specifications of your Latitude 7420.

Table 13. Keyboard specifications

Description	Values
Keyboard type	<ul style="list-style-type: none">• Standard non-backlit keyboard• Standard backlit keyboard
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
Keyboard size	X=19.05 mm key pitch Y=18.05 mm key pitch
Keyboard shortcuts	<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

The following table lists the camera specifications of your Latitude 7420.

Table 14. Camera specifications

Description	Option 1	Option 2	Option 3	Option 4	Option 5
Number of cameras	One	One	One	One	One

Table 14. Camera specifications (continued)

Description	Option 1	Option 2	Option 3	Option 4	Option 5
Type	Integrated 2.7 mm HD RGB Webcam	Integrated 2.7 mm HD RGB/IR Webcam with Proximity Sensor and optional ALS	Integrated 6 mm HD RGB Webcam	Integrated 6 mm HD RGB/IR Webcam with Proximity Sensor and optional ALS	Integrated 6 mm FHD RGB/IR Webcam with Proximity Sensor and optional ALS
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

The following table lists the touchpad specifications of your Latitude 7420.

Table 15. Touchpad specifications

Description	Option 1	Option 2
Touchpad resolution:		
Horizontal	3339	1337
Vertical	1994	761
Touchpad dimensions:		
Horizontal	115 mm (4.52 in.)	115 mm (4.52 in.)
Vertical	65 mm (2.56 in.)	65 mm (2.56 in.)
Touchpad gestures	For more information about touchpad gestures available on Windows 10, see the Microsoft knowledge base article 4027871 at support.microsoft.com .	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 7420.

Table 16. Power adapter specifications

Description	Option one	Option two
Type	65 W AC adapter, USB-C	90 W AC adapter, USB-C
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"> ● 5 V/3 A (Continuous) ● 9 V/3 A (Continuous) ● 15 V/3 A (Continuous) ● 20 V/3.25 A (Continuous) 	<ul style="list-style-type: none"> ● 5 V/3 A (Continuous) ● 9 V/3 A (Continuous) ● 15 V/3 A (Continuous) ● 20 V/4.5 A (Continuous)
Rated output voltage	<ul style="list-style-type: none"> ● 5 VDC ● 9 VDC ● 15 VDC ● 20 VDC 	<ul style="list-style-type: none"> ● 5 VDC ● 9 VDC ● 15 VDC ● 20 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

The following table lists the battery specifications of your Latitude 7420.

Table 17. Battery specifications

Description	Option one	Option two
Battery type	3-cell, 42 WHr, optional with ExpressCharge or Long Life Cycle	4-cell, 63 WHr, optional with ExpressCharge or Long Life Cycle
Battery voltage	11.40 VDC	15.2 VDC
Battery weight (maximum)	0.21 kg (0.467 lb)	0.26 kg (0.58 lb)
Battery dimensions:		
Height	5.7 mm (0.224 in.)	5.7 mm (0.224 in.)
Width	92.8 mm (3.654 in.)	92.8 mm (3.654 in.)

Table 17. Battery specifications (continued)

Description		Option one	Option two
	Depth	238 mm (9.37 in.)	238 mm (9.37 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) 	<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)	-20°C to 65°C (4°F to 149°F)
Battery 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.
Battery charging time (approximate) ⓘ 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 www.dell.com .		<ul style="list-style-type: none"> ExpressCharge Boost (0% up to 35%): 20 minutes ExpressCharge: 2 hours Standard charge: 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, <i>Me and My Dell</i> on www.dell.com/	<ul style="list-style-type: none"> ExpressCharge Boost (0% up to 35%): 20 minutes ExpressCharge: 2 hours Standard charge: 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, <i>Me and My Dell</i> on www.dell.com/
Coin-cell battery		Main battery reserves 2% of capacity for RTC function.	Main battery reserves 2% of capacity for RTC function.
 CAUTION: Operating and storage temperature ranges may differ among components, so operating or storing the device outside these ranges may impact the performance of specific components.			

Display

The following table lists the display specifications of your Latitude 7420.

Table 18. Display specifications

Description	Values					
Type	14-inch. Full High Definition (FHD)	14-inch. Full High Definition (FHD)	14-inch. Full High Definition (FHD)	14-inch. Full High Definition (FHD)	14-inch. Ultra High Definition (UHD)	14-inch. Full High Definition (FHD) for 2-in-1
Panel technology	Wide Viewing Angle (WVA)	WVA	WVA	WVA	WVA	WVA
Luminance (typical)	250 nits	400 nits	300 nits	300 nits	400 nits	300 nits
Dimensions (Active Area):						
Height	173.95 mm (6.85 in.)	173.95 mm (6.85 in.)	173.95 mm (6.85 in.)	173.95 mm (6.85 in.)	173.95 mm (6.85 in.)	173.95 mm (6.85 in.)

Table 18. Display specifications (continued)

Description	Values					
Width	309.40 mm (12.18 in.)	309.40 mm (12.18 in.)	309.40 mm (12.18 in.)	309.40 mm (12.18 in.)	309.40 mm (12.18 in.)	309.40 mm (12.18 in.)
Diagonal	355.60 mm (14 in.)	355.60 mm (14 in.)	355.60 mm (14 in.)	355.60 mm (14 in.)	355.60 mm (14.00 in.)	355.60 mm (14.00 in.)
Native Resolution	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080	3840 x 2160	1920 x 1080
Megapixels	2.07	2.07	2.07	2.07	8.29	2.07
Pixels per Inch (PPI)	157	157	157	157	314.7	157
Contrast Ratio (typ)	500:1	600:1	1000:1	600:1	1000:1	1000:1
Response Time (max)	35 ms	35 ms	35 ms	35 ms	40 ms	35 ms
Refresh Rate	60 Hz	60 Hz	60 Hz	60 Hz	60 Hz	60 Hz
Horizontal View Angle	80°	80°	80°	80°	80°	80°
Vertical View Angle	80°	80°	80°	80°	80°	80°
Pixel Pitch	0.161 x 0.161	0.161 x 0.161	0.161 x 0.161	0.161 x 0.161	0.0805 x 0.0805	0.161 x 0.161
Power Consumption (maximum)	3.2 W	2.5 W	4.1 W	3.5 W	3.75 W	1.8 W
Anti-glare vs glossy finish	Anti-glare	Anti-glare	Anti-glare	Anti-Glare, SafeScreen	Anti-glare	Anti-Reflection/ Anti-Smudge coating
Touch options	No	No	Yes	Yes	No	Yes
Stylus support	No	No	No	No	No	Yes (optional Wacom pen)

Fingerprint reader

The following table lists the fingerprint reader specifications of your Latitude 7420.


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

Table 19. Fingerprint reader specifications

Description	Values
Sensor technology	Capacitive
Sensor resolution	500 dpi
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 7420.

Table 20. GPU—Integrated


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

Operating and storage environment

This table lists the operating and storage specifications of your Latitude 7420.

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

Table 21. 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 80% (non-condensing)	0% to 95% (non-condensing)
Vibration (maximum)*	0.26 GRMS	1.37 GRMS
Shock (maximum)	140 G [†]	160 G [†]
Altitude range	-15.2 m to 3048 m (-50 ft to 10,000 ft)	-15.2 m to 10668 m (-50 ft to 35,000 ft)
 CAUTION: Operating and storage temperature ranges may differ among components, so operating or storing the device outside these ranges may impact the performance of specific components.		

* Measured using a random vibration spectrum that simulates user environment.

† Measured using a 2 ms half-sine pulse.