Latitude 5400

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.

System information

Table 3. System information

Feature	Specifications
Chipset	Integrated in the processor
DRAM bus width	64-bit
FLASH EPROM	16/32 MB
PCle bus	Up to Gen3
External bus frequency	Up to 8 GT/s
Processor	Up to 8 GT/s

Processor

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

Table 4. Processor specifications

Туре	UMA Graphics	Discrete Graphics
8th Gen Intel Core i7-8665U processor (8 MB cache, 4 core count/8 threads, 1.9 GHz to 4.8 GHz, 15 W TDP, vPro)	Intel UHD Graphics 620	AMD Radeon 540X
8th Gen Intel Core i5-8365U processor (6 MB cache, 4 core count/8 threads, 1.6 GHz to 4.1 GHz, 15 W TDP, vPro)		AMD Radeon 540X
8th Gen Intel Core i5-8265U processor (6 MB cache, 4 core count/8 threads, 1.6 GHz to 3.9 GHz, 15 W TDP)	Intel UHD Graphics 620	AMD Radeon 540X
8th Gen Intel Core i3-8145U processor (4 MB cache, 2 core count/4 threads, 2.1 GHz to 3.9 GHz, 15 W TDP)	Intel UHD Graphics 620	NA

Memory

Table 5. Memory specifications

Feature		Specifications	
Minimum memory configuration		4 GB	
Maximum memory configuration		32 GB	
Number of slots		2 x SoDIMM slots	
Maximum memory supported per s	slot	16 GB	
Memory options		 4 GB (1 x 4 GB) 8 GB (2 x 4 GB) 8 GB (1 x 8 GB) 16 GB (2 x 8 GB) 16 GB (1 x 16 GB) 32 GB (2 x 16 GB) 	
Туре		Dual-channel DDR4	
Speed		<u> </u>	SDRAM operates at 2400 MHz with Intel 8 th
Storage		Gen processors	
Table 6. Storage specifications			
Туре	Form factor		Capacity

Storage

Table 6. Storage specifications

Туре	Form factor	Interface	Capacity
PCIe Solid-State Drive	M.2 2230 SSD	PCIe Gen 3x2 NVMe, up to 32 Gbps	Upto 512 GB
PCIe Solid-State Drive	M.2 2280 SSD	PCle Gen 3x4 NVMe, up to 32 Gbps	Upto 1 TB
SATA Solid-State Drive	M.2 2280 SSD	SATA Class 20	Upto 512 GB
SED PCIe Solid-State Drive	M.2 2280 SSD	SED PCIe	Upto 512 GB
HDD	2.5 in.	SATA	 Upto 1 TB; 5400 RPM Upto 1 TB; 7200 RPM

System board connectors

Table 7. System board connectors

Feature	Specifications
M.2 Connectors	One M.2 2230 Key-E connectorOne M.2 2280 Key-E connector

• One M.2 3042 Key-B connector

Media card-reader

Table 8. Media-card reader specifications

Feature	Specifications
Туре	MicroSD-card slot
	Smart card reader slot (optional)
Supported cards	Smart card reader (optional)MicroSD

Audio

Table 9. Audio specifications

Controller Realtek ALC3204 with Waves MaxxAudio Pro Stereo conversion 24-bit DAC (Digital-to-Analog) and ADC (Analog-to-Digital) Type HD Audio Speakers Two Interface Internal: · Intel HDA (high-definition audio) External: · 7.1 channel output via HDMI Digital microphone input on camera module · Headset combo jack (stereo headphones/microphone-in) Integrated in ALC3204 (Class-D 2 W)
Type Speakers Interface Interface Internal: - Internal: - Intel HDA (high-definition audio) External: - 7.1 channel output via HDMI - Digital microphone input on camera module - Headset combo jack (stereo headphones/microphone-in)
Speakers Interface Internal: Interna
 Intel HDA (high-definition audio) External: 7.1 channel output via HDMI Digital microphone input on camera module Headset combo jack (stereo headphones/microphone-in)
 Intel HDA (high-definition audio) External: 7.1 channel output via HDMI Digital microphone input on camera module Headset combo jack (stereo headphones/microphone-in)
 Intel HDA (high-definition audio) External: 7.1 channel output via HDMI Digital microphone input on camera module Headset combo jack (stereo headphones/microphone-in)
 7.1 channel output via HDMI Digital microphone input on camera module Headset combo jack (stereo headphones/microphone-in)
 Digital microphone input on camera module Headset combo jack (stereo headphones/microphone-in)
Internal speaker amplifier Integrated in ALC3204 (Class-D 2 W)
External volume controls Media-control shortcut keys
Speaker output: Average: 2 W
Peak: 2.5 W
Microphone Digital-array microphones

Video card

Table 10. Video card specifications

Controller	Туре	CPU Dependency	Graphics memory type	Capacity	External display support	Maximum resolution
Intel UHD Graphics 620	UMA	 Intel Core i7-8665U CPU (vPro) 	Integrated	Shared system memory	HDMI 1.4b port	4096 x 2304 @24 Hz
		 Intel Core i5-8365U CPU 				
		 Intel Core i5-8265U CPU 				
		 Intel Core i3-8145U CPU 				
AMD Radeon 540X	Discrete	NA	GDDR5	2 GB	N/A	N/A

Camera

Table 11. Camera specifications	com
Feature	Specifications
Camera Type	RGB, HD fixed focus
IR Camera	6 mm IR camera (optional)
Resolution	6 mm IR camera (optional) Still image: HD resolution (1280 x 720)
	Video: HD resolution (1280 x 720) at 30 fps
Diagonal viewing angle	IR: 87 degree
	RGB: 78.6 degree
Sensor type	CMOS sensor technology

(i) NOTE: The RBG + IR camera is for Windows Hello application only and other applications cannot use it.

Communication

Table 12. Communication specifications

Feature	Specifications
Network adapter	Integrated Connection I219-LM/I219-V 10/100/1000 Mb/s Ethernet (RJ-45)

Mobile Broadband

Table 13. Mobile Broadband

Specifications

Intel XMM 7360 Global LTE-Advanced

Wireless

Table 14. Wireless specifications

Specifications

Intel Dual Band Wireless AC 9560 (802.11ac) 2x2 + Bluetooth 5.0

Qualcomm QCA61x4A 802.11ac Dual Band (2x2) Wireless Adapter + Bluetooth 4.2

Intel Wi-Fi 6 AX200 2x2 .11ax 160 MHz + Bluetooth 5.0 (Optional)

Ports and connectors

Table 15. Ports and connectors

Feature	Specifications
Memory card reader	One MicroSD card reader
SIM card reader	One micro SIM card slot
USB	 Three USB 3.1 Gen 1 (Type-A) ports One USB Type-C 3.1 Gen 2 port with DisplayPort/Thunderbolt 3(optional)
Security	Noble wedge lock slot
Audio	One headset (headphone and microphone combo) port
Video	One HDMI 1.4b port (supports up to 4k @30 Hz)
Network adapter	RJ-45, 10/100/1000, with LED indicator



Table 16. Display specifications

Feature	Specifications
Туре	 14 in. HD (1366 x 768), antiglare (16:9), WLED, non-touch, 220nits
	14 in FLID Wide viewing angle (1000 v 1000), antiglars (16:0)

 14 in. FHD Wide viewing angle (1920 x 1080), antiglare (16:9) WLED, non-touch, 220nits

Feature	Specifications
	 14 in. FHD Wide viewing angle (1920 x 1080), Embedded touch display with truelife, 220nits (optional)
Height (Active area)	173.95 mm (6.84 in.)
Width (Active area)	309.4 mm (12.18 in.)
Diagonal	355.6 mm (14 in.)
Pixels Per Inch (PPI)	112 (HD)
	157 (FHD)
Contrast ratio	400:1 (HD)
	700:1 (FHD)
Luminance/Brightness (typical)	220 Nits
Refresh rate	60 Hz
Horizontal viewing angle (min)	+/- 40 degrees (HD)
	+/- 80 degrees (FHD) (optional)
Vertical viewing angle (min)	10/30 degrees U/D (HD)
	+/- 80 degrees (FHD)(optional)
Power consumption (max)	2.4 W (HD)
	2.8 W (FHD)
	3.15 W (FHD touch panel)
Keyboard	V ^o n

Table 17. Keyboard specifications

Feature	Specifications	
Number of keys	 81 (U.S. and Canada) 82 (UK/Brazil) 85 (Japan) 	
Size	Full sized	
	 X= 19.05 mm (0.75 in.) key pitch Y= 19.05 mm (0.75 in.) key pitch 	
Backlit keyboard	Optional (backlit and Non-backlit)	
Layout	QWERTY	

Touchpad

Table 18. Touchpad specifications

Feature	Specifications
Resolution	1221 x 661
Dimensions	 Width: 101.7 mm (4.00 in.) Height: 55.2 mm (2.17 in.)
Multi-touch	Supports 5-finger multi-touch
	() NOTE: For more information about touchpad gestures for Windows 10, see the Microsoft knowledge base article

Fingerprint reader—optional

Table 19. Fingerprint reader specifications

Feature	Specifications
Туре	FPR in power button
Sensor technology	Capacitive
Sensor resolution	363 PPI
Sensor area	Diameter: 10 mm
Operating system	Lager

Table 20. Operating system

Feature	Specifications	
Operating systems supported	Windows 10 Home (64 bit)Windows 10 Professional (64bit)	

• Ubuntu 18.04 LTS (64 bit)

4027871 at support.microsoft.com.

• NeoKylin 6.0 SP4 (PRTS)

Battery

Table 21. Battery

Feature	Specifications					
Туре	3-cell lithium-ion (ExpressCharge	42 WHr)	3-cell lithium-ion (ExpressCharge	51 WHr)	4-cell lithium-ion (ExpressCharge	68 WHr)
Dimension	Width	95.9 mm (3.78 in.)	Width	95.9 mm (3.78 in.)	Width	95.9 mm (3.78 in.)
	Depth	181 mm (7.13 in.)	Depth	181 mm (7.13 in.)	Depth	233 mm (9.17 in.)
	Height	7.05 mm (0.28 in.)	Height	7.05 mm (0.28 in.)	Height	7.05 mm (0.28 in.)
Weight (maximum)	200 g (0.44 lb)		250 g (0.55 lb)		340 g (0.75 lb)	
Voltage	11.40 VDC		11.40 VDC		7.6 VDC	
_ife span	300 discharge/cha	arge cycles	300 discharge/ch	arge cycles	300 discharge/cha (standard pack)	arge cycles
					1000 discharge/ch pack)	narge cycles (LCL
Charging time when the computer is off	Standard charge	0°C to 50°C: 4 hours	Standard charge	0°C to 50°C: 4 hours	Standard charge	0°C to 50°C: 4 hours
approximate)	Express Charge	0°C to 15°C: 4 hours	Express Charge	0°C to 15°C: 4 hours	Express Charge	0°C to 15°C: 4 hours
		16°C to 45°C: 2 hours	top 14.	16°C to 45°C: 2 hours		16°C to 45°C: 2 hours
		46°C to 50°C: 3 hours		46°C to 50°C: 3 hours		46°C to 50°C: 3 hours
Operating time	Varies depending of conditions and car reduce under cert conditions.		Varies depending conditions and car reduce under cert conditions.	· -	Varies depending of conditions and car reduce under cert conditions.	
Temperature ange: Operating	Charge: 0°C to 50	0°C, 32°F to 122°F	Charge: 0°C to 5(122°F)	0°C (32°F to	Charge: 0°C to 50)°C, 32°F to 122°F
anye. Operating	Discharge: 0°C to 139°F	60°C, 32°F to		to 60°C (-40°F to	Discharge: 0°C to 139°F	60°C, 32°F to
Temperature range: Storage	-20°C to 60°C (-4	4°F to 140°F)	-20°C to 60°C (-	40°F to 140°F)	-20°C to 60°C (-4	4°F to 140°F)
Coin-cell battery	CR-2032		CR-2032		CR-2032	

Power adapter

Table 22. Power adapter specifications

Feature	Specifications	
Туре	E5 65 W	E5 90 W
Input Voltage	100 VAC - 240 VAC	100 VAC - 240 VAC
Input current (maximum)	1.5 A	1.6 A
Adapter size	Dimensions	Dimensions
	In Inches: 0.87 x 2.60 x 4.17	In Inches: 0.87 x 2.60 x 5.12
	In mm: 22 x 66 x 106	In mm: 22 x 66 x 130
Barrel	7.4 mm	7.4 mm
Weight	0.23 kg (0.51 lb)	0.32 kg (0.70 lb)
Input frequency	50 Hz to 60 Hz	50 Hz to 60 Hz
Output current	3.34 A (continuous)	4.62 A (continuous)
Rated output voltage	19.5 VDC	(19.5 VDC
Temperature range (Operating)	0°C to 40°C (32°F to 104°F)	0°C to 40°C (32°F to 104°F)
Temperature range (Non- Operating)	-40°C to 70°C (-40°F to 158°F)	-40°C to 70°C (-40°F to 158°F)

Sensor and control specifications

Table 23. Sensor and control specifications

Specifications

1. Free fall sensor on motherboard

2. Hall Effect Sensor

Dimensions and weight

Table 24. Dimensions and weight

Feature	Specifications
Height	Front: 19.6 mm (0.77 in.)
	Rear: 20.85 mm (0.82 in.)
Width	323.05 mm (12.7 in.)

Depth

Weight

Specifications

216 mm (8.5 in.)

1.52 kg (3.36 lb)

Computer environment

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

Table 25. Computer environment

	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)		
	(i) NOTE: Maximum dew point temperature = 26°C	() NOTE: Maximum dew point temperature = 33°C		
Vibration (maximum)	0.26 GRMS	1.37 GRMS		
Shock (maximum)	105 G [†]	40 G [‡]		
Altitude (maximum)	-15.2 m to 3048 m (-50 ft to 10,000 ft)	-15.2 m to 10,668 m (-50 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.

Security

Table 26. Security

Feature	Specifications
Trusted Platform Module (TPM) 2.0	Integrated on the system board
Firmware TPM	Optional
Windows Hello Support	Yes, optional fingerprint on power button
	Optional IR camera
Cable lock	Noble lock
Dell Smartcard Keyboard	Optional
FIPS 140-2 certification for TPM	Yes
ControlVault 3 Advanced Authentication with FIPS 140-2 Level 3 Certification	Yes, for FPR, SC and CSC/NFC
Fingerprint Reader Only	Touch Fingerprint reader in power button tied to ControlVault 3

FIPS 201 Smart card reader certification/SIPR

Security options—Contacted smartcard reader

Table 27. Contacted smartcard reader

Title	Description	Dell ControlVault 3 Smartcard reader
ISO 7816 -3 Class A Card Support	Reader capable of reading 5V powered smartcard	Yes
ISO 7816 -3 Class B Card Support	Reader capable of reading 3V powered smartcard	Yes
ISO 7816 -3 Class C Card support	Reader capable of reading 1.8V powered smartcard	Yes
ISO 7816-1 Compliant	Specification for the reader	Yes
ISO 7816 -2 Compliant	Specification for smartcard device physical characteristics (size, location of connection points, etc.)	Yes
T=0 support	Cards support character level transmission	Yes
T=1 support	Cards support block level transmission	Yes
EMVCo Compliant	Compliant with EMVCo (for electronic payment standards) smartcard standards as posted to www.emvco.com	Yes
EMVCo Certified	Formally certified based on EMVCO smartcard standards	Yes
PC/SC OS interface	Personal Computer/Smart Card specification for integration of hardware readers into personal computer environments	Yes
CCID driver compliance	Common driver support for Integrated Circuit Card Interface Device for OS level drivers.	Yes
Windows Certified	Device certified by Micrsoft WHCK	Yes
FIPS 201 (PIV/HSPD-12) Compliant via GSA	Device compliant with FIPS 201/PIV/ HSPD-12 requirements	Yes

Security options—Contactless smartcard reader

Table 28. Contactless smartcard reader

Title	Description	Dell ControlVault 3 Contactless Smartcard reader with NFC
Felica Card Support	Reader and software capable of supporting Felica contactless cards	Yes
Prox (Proximity) (125kHz) Card support	Reader and software capable of supporting Prox/Proximity/125kHz contactless cards	No

Title	Description	Dell ControlVault 3 Contactless Smartcard reader with NFC
ISO 14443 Type A Card Support	Reader and software capable of supporting ISO 14443 Type A contactless cards	Yes
ISO 14443 Type B Card Support	Reader and software capable of supporting ISO 14443 Type B contactless cards	Yes
ISO/IEC 21481	Reader and software capable of supporting ISO/IEC 21481 compliant contactless cards and tokens	Yes
ISO/IEC 18092	Reader and software capable of supporting ISO/IEC 21481 compliant contactless cards and tokens	Yes
ISO 15693 Card Support	Reader and software capable of supporting ISO15693 contactless cards	Yes
NFC Tag Support	Supports reading and processing of NFC compliant tag information	Yes
NFC Reader Mode	Support for NFC Forum Defined Reader mode	Yes
NFC Writer Mode	Support for NFC Forum Defined Writer mode	Yes
NFC Peer-to-Peer Mode	Support for NFC Forum Defined Peer to Peer mode	Yes
EMVCo Compliant	Compliant with EMVCO smartcard standards as posted to www.emvco.com	Yes
EMVCo Certified	Formally certified based on EMVCO smartcard standards	Yes
NFC Proximity OS Interface	Enumerates NFP (Near Field Proximity) device for <mark>OS</mark> to utilize	Yes
PC/SC OS interface	Personal Computer/Smart Card specification for integration of hardware readers into personal computer environments	Yes
CCID driver compliance	Common driver support for Integrated Circuit Card Interface Device for OS level drivers	Yes
Windows Certified	Device certified by Microsoft WHCK	Yes
Dell ControlVault support	Device connects to Dell ControlVault for usage and processing	Yes

(i) NOTE: 125 Khz proximity cards are not supported.

Table 29. Supported cards

Manufacturer	Card	Supported	
HID	jCOP readertest3 A card (14443a)	Yes	
	1430 1L		
	DESFire D8H		

Manufacturer	Card	Supported
	iClass (Legacy)	
	iClass SEOS	
NXP/Mifare	Mifare DESFire 8K White PVC Cards	Yes
	Mifare Classic 1K White PVC Cards	
	NXP Mifare Classic S50 ISO Card	
G&D	idOnDemand - SCE3.2 144K	Yes
	SCE6.0 FIPS 80K Dual+ 1 K Mifare	
	SCE6.0 nonFIPS 80K Dual+ 1K Mifare	
	SCE6.0 FIPS 144K Dual + 1K Mifare	
	SCE6.0 nonFIPS 144K Dual + 1 K Mifare	
	SCE7.0 FIPS 144K	
Oberthur	idOnDemand - OCS5.2 80K	Yes
	ID-One Cosmo 64 RSA D V5.4 T=0 card	

Security Software

Table 30. Security Software specifications

Specifications

Dell Client Command Suite

-aptopyANG.com Optional Dell Data Security and Management Software

- Dell Endpoint Security Suite Enterprise •
- Dell Data Guardian •
- Dell Encryption Enterprise .
- Dell Encryption Personal .
- Dell Threat Defense .
- MozyPro or MozyEnterprise .
- RSA NetWitness Endpoint •
- **RSA SecurID Access** •
- VMware Workspace ONE ٠
- Absolute Endpoint Visibility and Control •