

Latitude 7220 Rugged Extreme Tablet

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 tablet

Steps

1. Connect the power adapter, and press the power button.


 **NOTE:** To conserve battery power, the battery might enter power-saving mode.



2. Finish Windows system setup.

Follow the on-screen instructions to complete the setup. When setting up, it is recommended 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

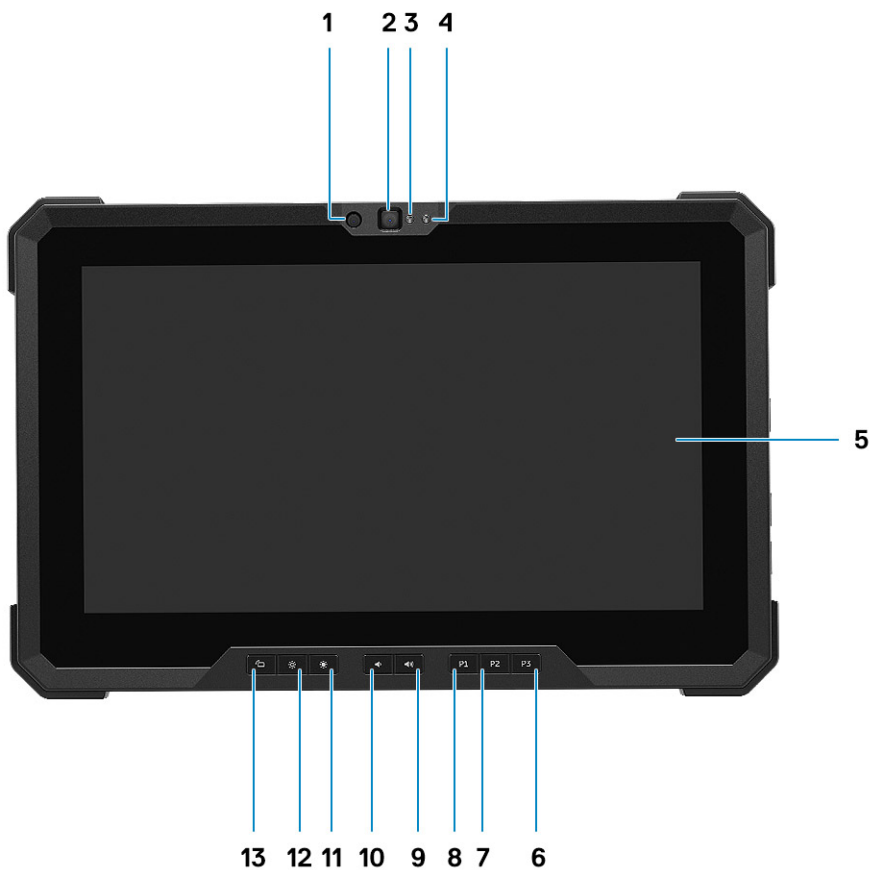
Resources	Description
	<p>Dell Product Registration Register your computer with Dell.</p>
	<p>Dell Help & Support Access help and support for your computer.</p>
	<p>My Dell Centralized location for key Dell applications, help articles, and other important information about your computer. It also notifies you about the warranty status, recommended accessories, and software updates if available.</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>

Chassis overview

Topics:

- Front view
- Left view
- Right view
- Back view
- Top view
- Bottom view

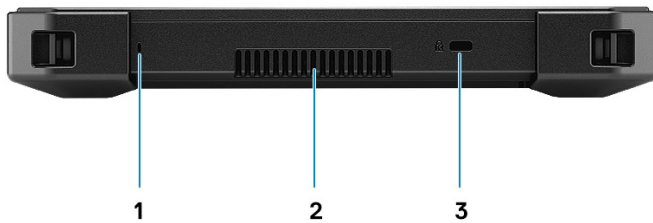
Front view



1. IR emitter
2. Camera
3. Camera status light
4. Ambient light sensor
5. Display
6. User programmable button 3
7. User programmable button 2

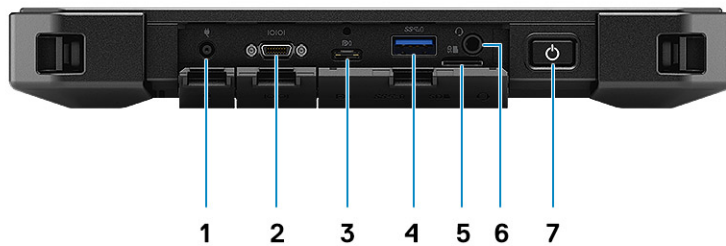
- 8. User programmable button 1
- 9. Volume increase button
- 10. Volume decrease button
- 11. Brightness increase button
- 12. Brightness decrease button
- 13. Screen rotate lock button

Left view



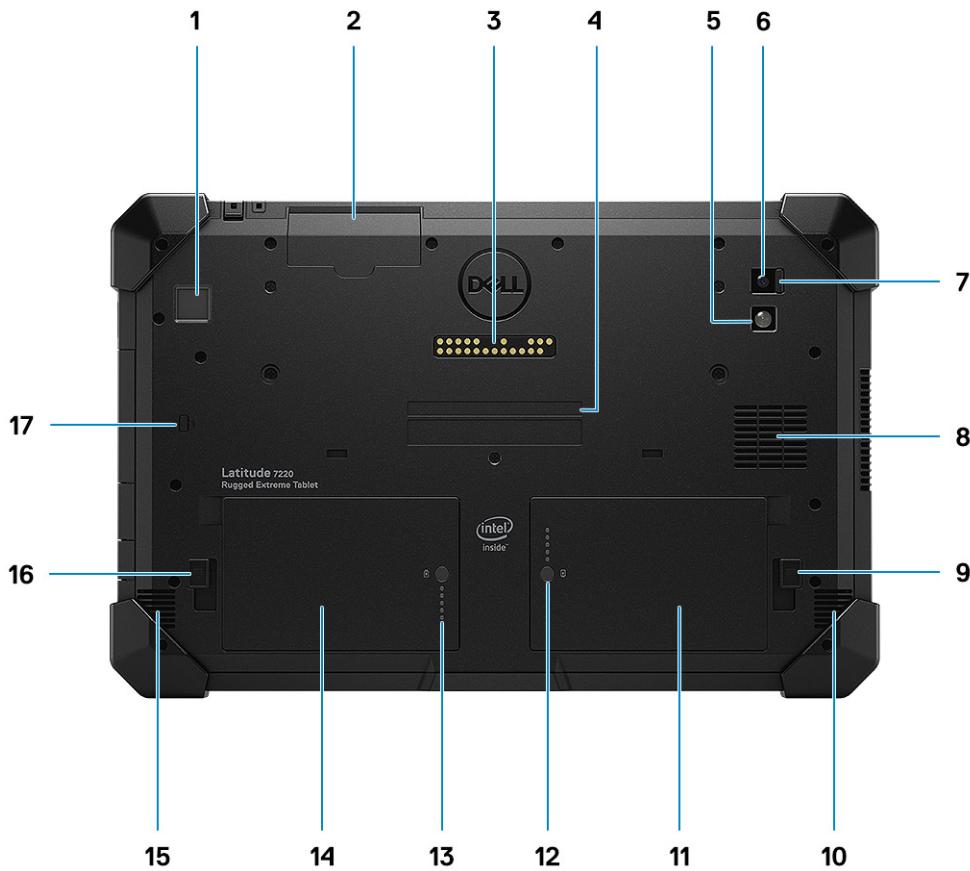
- 1. Microphone
- 2. Quad cool vent output
- 3. Lock slot (T-bar)

Right view



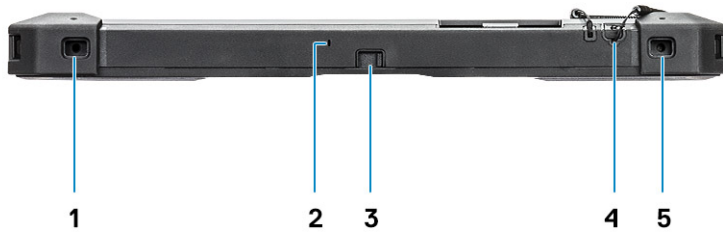
- 1. Power connector port
- 2. Mini serial RS-232 port
- 3. USB Type-C DisplayPort Alt mode/USB 3.2 Gen2/Power Delivery
- 4. USB 3.2 Gen1 Type-A with PowerShare
- 5. Micro SD-card slot
- 6. Universal audio jack
- 7. Power button/ LED status light

Back view



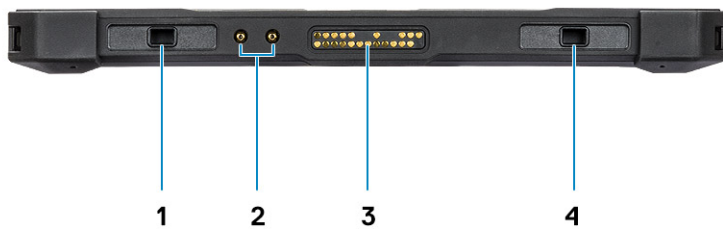
1. Fingerprint reader (optional)
2. Smart card reader slot
3. OpExpansion module pogo connector
4. Service tag and Express service code label
5. LED flash
6. Rear camera
7. Rear camera shutter switch
8. Quad cool intake vent
9. Right battery release latch
10. Speaker
11. Right battery
12. Right battery LED indicator
13. Left battery LED indicator
14. Left battery
15. Speaker
16. Left battery release latch
17. Contactless smart card reader (optional)

Top view



1. Accessory connection point
2. Microphone
3. Camera shutter switch
4. Stylus
5. Accessory connection point

Bottom view



1. Docking/Keyboard retention alignment feature
 2. Radio antennae pass-through connector
 3. Docking pogo connector
 4. Docking/Keyboard retention alignment feature
- i** **NOTE:** Used for docking a docking station or a rugged keyboard.

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:

- Processors
- Chipset
- Operating system
- Memory
- Storage
- Internal slots
- External ports
- Audio
- Video
- Camera
- Communications
- Media-card reader
- Power adapter
- Battery
- Dimensions and weight
- Display
- Fingerprint reader
- Security
- Data security
- Regulatory, Environmental Compliance and Trusted Platform Module (TPM)
- Computer environment
- Support policy

Processors

Table 2. Processors

Processors	Wattage	Core count	Thread count	Speed	Cache	Integrated graphics
8 th Generation Intel Core i3-8145U	15 W	2	4	2.10 GHz to 3.90 GHz Turbo	4 MB SmartCache	Intel UHD Graphics 620
8 th Generation Intel Core i5-8365U, vPro	15 W	4	8	1.60 GHz to 4.10 GHz Turbo	6 MB SmartCache	Intel UHD Graphics 620
8 th Generation Intel Core i7-8665U, vPro	15 W	4	8	1.90 GHz to 4.80 GHz Turbo	8 MB SmartCache	Intel UHD Graphics 620

Chipset

Table 3. Chipset

Description	Values
Chipset	Intel
Processor	Whiskey lake - 8 th Gen Intel Core
DRAM bus width	Two channels, 64 bits
Flash EPROM	32 MB
PCIe bus	Up to Gen 3

Operating system

Your Latitude 7220 Rugged Extreme Tablet supports the following operating systems:

- Windows 11 Pro, 64-bit
- Windows 10 Pro, 64-bit

Memory

Table 4. Memory specifications

Description	Values
Slots	Two integrated on system board
Type	LPDDR3
Speed	2133 MHz
Maximum memory	16 GB
Minimum memory	8 GB
Configurations supported	<ul style="list-style-type: none">• 8 GB LPDDR3 at 2133 MHz• 16 GB LPDDR3 at 2133 MHz

Storage

Your tablet supports one M.2 2230/2280 slot for solid-state drive.

Table 5. Storage specifications

Storage type	Interface type	Capacity
One M.2 2230 solid-state drive	PCIe Gen3 x4 NVMe, Class 35 SSD	128 GB
One M.2 2280 solid-state drive	PCIe Gen3 x4 NVMe, Class 40 SSD	256 GB to 2 TB
One M.2 2280 solid-state drive	PCIe Gen3 x4 NVMe, Class 40 Self-Encrypting SSD	256 GB to 1 TB

Internal slots

The following table lists the internal slots of your Latitude 7220 Rugged Extreme Tablet.

Table 6. Internal slots

Description	Values
M.2	<ul style="list-style-type: none"> One M.2 2230 slot for solid-state drive 128 GB One M.2 2280 slot for solid-state drive 256 GB/512 GB/1 TB/2 TB <p>NOTE: To learn more about the features of different types of M.2 cards, search in the Knowledge Base Resource at www.dell.com/support.</p>

External ports

The following table lists the external ports of your Latitude 7220 Rugged Extreme Tablet.

Table 7. External ports

Description	Values
Network port	Ethernet connection available through optional Expansion Module or dock.
USB ports	<ul style="list-style-type: none"> One USB 3.2 Gen 2 Type-A with PowerShare One USB Type-C DisplayPort Alt Mode/USB3.2 Gen2/Power Delivery
Audio port	One headset (headphone and microphone combo) port
Video port	Supported via dock or directly through USB Type-C DP Alt mode
Media-card reader	One micro SD-card slot
Power-adaptor port	4.5 mm barrel-type
Security-cable slot	Lock slot (T-bar)

Audio

Table 8. Audio specifications

Description	Values
Controller	Realtek ALC3254
Stereo conversion	Supported
Internal interface	Intel high definition audio (HDA)
External interface	Universal Audio Jack
Speakers	2
Speaker Output Average	2 W RMS

Table 8. Audio specifications (continued)

Description	Values
Speaker Output Peak	2.5 W

Video

Table 9. Integrated graphics specifications

Integrated graphics			
Controller	External display support	Memory size	Processor
Intel UHD 620 Graphics	USB Type-C DisplayPort	Shared system memory	8th Generation Intel Core i3/i5/i7

Camera

Table 10. Camera specifications

Description		Values
Number of cameras		Two
Type		<ul style="list-style-type: none"> Front Camera - 5 MP, RGBIr camera with Windows Hello feature Rear Camera - 8 MP, RGB camera with Auto Focus and Flash LED
Location		<ul style="list-style-type: none"> Front Camera - 5 MP Rear Camera - 8 MP
Sensor type		CMOS sensor technology
	Camera	
	Still image	<ul style="list-style-type: none"> Front Camera - 5.03 megapixels Rear Camera - 7.99 megapixels
	Video	<ul style="list-style-type: none"> Front Camera - 2592 x 1944 (5 MP) at 30 fps Rear Camera - 3264 x 2448 (8 MP) at 15 fps
Diagonal viewing angle		
	Camera	<ul style="list-style-type: none"> Front Camera - 88.9° Rear Camera - 77.3°

Communications

Wireless module

Table 11. Wireless module specifications

Description	Values			
Model number	Intel Wireless-AC 9560, 2 x2, 802.11ac with Bluetooth 5.1	Intel Wi-Fi 6 AX200, 2 x 2, 802.11ax with MU-MIMO, without Bluetooth	Intel Wi-Fi 6 AX200, 2 x 2, 802.11ax with MU-MIMO, Bluetooth 5.2	DW5821E Snapdragon X20 4G/LTE Wireless WAN card
Transfer rate	Up to 1.73 Gbps	Up to 2.40 Gbps	Up to 2.40 Gbps	Up to 1.2 Gbps
Frequency bands supported	2.4 GHz/5 GHz	2.4 GHz/5 GHz	2.4 GHz/5 GHz	5 x 20 MHz
Wireless standards	<ul style="list-style-type: none"> • WiFi 802.11a/b/g • WiFi 4 (WiFi 802.11n) • WiFi 5 (WiFi 802.11ac) 	<ul style="list-style-type: none"> • WiFi 802.11a/b/g • WiFi 4 (WiFi 802.11n) • WiFi 5 (WiFi 802.11ac) • WiFi 6 (WiFi 802.11ax) 	<ul style="list-style-type: none"> • WiFi 802.11a/b/g • WiFi 4 (WiFi 802.11n) • WiFi 5 (WiFi 802.11ac) • WiFi 6 (WiFi 802.11ax) 	<ul style="list-style-type: none"> • LTE FDD/TDD • WCDMA/HSPA+ • GPS/GLONASS/Beidou/Galileo
Encryption	<ul style="list-style-type: none"> • 64-bit and 128-bit WEP • AES-CCMP • TKIP 	<ul style="list-style-type: none"> • 64-bit and 128-bit WEP • AES-CCMP • TKIP 	<ul style="list-style-type: none"> • 64-bit and 128-bit WEP • AES-CCMP • TKIP 	NA
Bluetooth	Bluetooth 5.1	Not supported	Bluetooth 5.2	NA

GPS and RF antenna passthrough

This section provides the GPS passthrough and RF antenna passthrough information for the Dell Latitude 7220 Rugged Extreme Tablet.

Table 12. GPS and RF Antenna passthrough (WLAN)

For WLAN Main Antenna							
Frequency (MHz)	Switch Circuit Loss (dB)			Jump Cable Loss (dB) 51 mm, 1.37LL	Total Loss (dB)		
	Non-ATEX (MU2)	ATEX (MU2)	Non-ATEX (DVT1)		Non-ATEX	ATEX	DVT1
2400~2500	-1.18	-0.60	-0.85	-0.24	-1.42	-0.84	-1.09
5150~5850	-1.91	-1.31	-1.37	-0.35	-2.26	-1.66	-1.72

Table 13. GPS and RF Antenna passthrough (LTE)

For LTE Main Antenna							
Frequency (MHz)	Switch Circuit Loss (dB)			Jump Cable Loss (dB) 51 mm, 1.37LL	Total Loss (dB)		
	Non-ATEX (MU2)	ATEX (MU2)	Non-ATEX (DVT1)		Non-ATEX	ATEX	DVT1

Table 13. GPS and RF Antenna passthrough (LTE) (continued)

For LTE Main Antenna							
600~1000	-0.5	-0.26	-0.4	-0.14	-0.64	-0.40	-0.54
1700~1880	-1.2	-0.45	-0.77	-0.18	-1.38	-0.63	-0.95
1880~2330	-1.52	-0.48	-0.89	-0.21	-1.73	-0.69	-1.10
2330~2700	-1.54	-0.53	-0.85	-0.24	-1.78	-0.77	-1.09
3300~3800	-1.58	-0.63	-0.98	-0.27	-1.85	-0.90	-1.25
5150~5930	-1.96	-1.38	-1.28	-0.35	-2.31	-1.73	-1.63

Media-card reader

Table 14. Media-card reader specifications

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

Power adapter

Table 15. Power adapter specifications

Description	Values	
Type	E4 45 W	E5 90 W
Input voltage	100 VAC x 240 VAC	100 VAC - 240 VAC
Input frequency	50 Hz x 60 Hz	50 Hz - 60 Hz
Input current (maximum)	1.3 A	1.56A
Output current (continuous)	2.31 A (continuous)	4.62 A (continuous)
Rated output voltage	19.50 VDC	19.50 VDC
Temperature range:		
Operating	0 °C – 40 °C (32 °F - 104 °F)	0 °C - 40 °C (32 °F - 104 °F)
Storage	-40 °C - 70 °C (-40 °F - 158 °F)	-40 °C - 70 °C (-40 °F - 158 °F)

Battery

Table 16. Battery specifications

Description		Values	
Type	34 WHr, 2-Cell, ExpressCharge, user-replaceable	34 WHr (LCL)	
Voltage	7.6 VDC	7.6 VDC	
Weight (maximum)	220 g (0.48 lb)	220 g (0.48 lb)	
Dimensions:			
	Height	15.00 mm (0.59 in.)	15.00 mm (0.59 in.)
	Width	62.70 mm (2.46 in.)	62.70 mm (2.46 in.)
	Depth	103.60 mm (4.07 in.)	103.60 mm (4.07 in.)
Temperature range:			
	Operating	0 °C - 60 °C (32 °F - 140 °F)	0 °C - 60 °C (32 °F - 140 °F)
	Storage	-20 °C - 65 °C (-4 °F - 149 °F)	-20 °C - 65 °C (-4 °F - 149 °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.
Charging time (approximate)	<ul style="list-style-type: none"> 0 °C - 15 °C: 0-100% RSOC within 4 hours 15 °C - 45 °C: 0-100% RSOC within 2 hours 46 °C - 50 °C: 0-100% RSOC within 3 hours 		<ul style="list-style-type: none"> 0 °C - 15 °C: 0-100% RSOC within 4 hours 15 °C - 45 °C: 0-100% RSOC within 2 hours 46 °C - 50 °C: 0-100% RSOC within 3 hours
Life span (approximate)	300 discharge/charge cycles		300 discharge/charge cycles
Coin-cell battery	CR2032		CR2032
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.

Dimensions and weight

Table 17. Dimensions and weight

Description		Values
Height:		
	Front	203 mm (7.99 in.)
	Rear	209 mm (8.23 in.)
Width	<ul style="list-style-type: none"> with bumpers: 318.2 (12.52 in.) without bumpers: 312.20 mm 	

Table 17. Dimensions and weight (continued)

Description	Values
Depth	<ul style="list-style-type: none"> with bumpers: 27.7 mm (1.09 in.) without bumpers: 24.7 mm (0.97 in.)
Starting weight	1.31 kg (2.9 lb) ⓘ NOTE: The weight of your tablet depends on the configuration ordered and the manufacturing variability.

Display

Table 18. Display specifications

Description	Values
Type	Full High Definition (FHD)
Panel technology	Wide View Angle (WVA)
Luminance (typical)	1000 nits outdoor readable
Dimensions (active area):	
Height	256.32 mm (10.09 in.)
Width	144.18 mm (5.67 in.)
Diagonal	294.64 mm (11.6 in.)
Native resolution	1920 x 1080
Megapixels	16.7 million
Color gamut	72% NTSC
Pixels Per Inch (PPI)	190
Contrast ratio (min)	1500 : 1 (Typ)
Response time (max)	40 ms (max)
Refresh rate	60 Hz
Horizontal view angle	89 degrees
Vertical view angle	89 degrees
Pixel pitch	0.1335 mm x 0.1335 mm
Power consumption (maximum)	8.02 W
Anti-glare vs glossy finish	Anti-glare, Anti-smudge
Touch options	Yes, Glove-capable touchscreen with 10-point touch support
Glass	Gorilla Glass 3

Fingerprint reader

Table 19. Fingerprint reader specifications

Description	Values
Sensor technology	Trans-capacitive sensing
Sensor resolution	363 dpi
Sensor area	7.42 mm x 5.95 mm
Sensor pixel size	70 um x 70 um

Security

Table 20. Security

Features	Specifications
Trusted Platform Module (TPM) 2.0	Integrated on system board
Fingerprint reader	Optional
Contacted Smartcard reader	Optional
Contactless Smartcard reader	Optional
Lock slot (T-bar)	Standard
Protected slot/vent openings	Standard

Data security

Table 21. Data security

Features	Specifications
Dell Data Protection - Endpoint Security Suite Enterprise (DDP ESSE)	Optional
Dell Data Protection - Software Encryption (DDPE)	Optional
Dell ControlVault 3.0	Optional
Microsoft Device Guard and Credential Guard (Windows Enterprise)	Optional
Microsoft Windows Bitlocker	Optional

Regulatory, Environmental Compliance and Trusted Platform Module (TPM)

Table 22. Regulatory, Environmental Compliance and TPM

Features	Specifications
Energy Star	Energy Star 7 compliant
TPM	<ul style="list-style-type: none">Hardware Trusted Platform Module (Discrete TPM Enabled)

Table 22. Regulatory, Environmental Compliance and TPM (continued)

Features	Specifications
	<ul style="list-style-type: none"> Firmware Trusted Platform Module only (Discrete TPM Disabled)
Environmental, Ergonomic, and Regulatory standards	<ul style="list-style-type: none"> Energy Star EPEAT* Registered CEL WEEE Japan Energy Law South Korea Eco-label EU RoHS China RoHS MIL 810G <p>See your local representative or https://www.dell.com for specific details.</p> <p>*For specific country participation and rating, please see https://www.epeat.net.</p>

Computer environment

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

Table 23. Computer environment

Description	Operating	Storage
Temperature range	-29°C to 63°C (-20.2°F to 145°F)	-51°C to 71°C (-70.6°F to 160°F)
Relative humidity (maximum)	10% to 90% (non-condensing)	5% to 95% (non-condensing)
Vibration (maximum)*	<ul style="list-style-type: none"> 1.04 GRMS 0.20 GRMS 0.74 GRMS 	<ul style="list-style-type: none"> 2.24 GRMS 1.45 GRMS 1.32 GRMS
Shock (maximum)	40 G [†] , 11ms, saw-tooth, 3 shocks +/- per axis, 3 axes	185 G [†] , 2ms half sine; 2 shocks/axis/direction for a total of 12 shocks
Altitude (maximum)	Chamber at 15,000 ft for 1 hour	Chamber at 30,000 ft for 1 hour

* 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.

Support policy



For more information on support policy, see the knowledge base articles [PNP181418](#), [PNP43920](#) and [PNP179097](#).

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 24. 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.