

Latitude 7220EX Rugged Extreme Tablet

Setup and Specifications guide

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

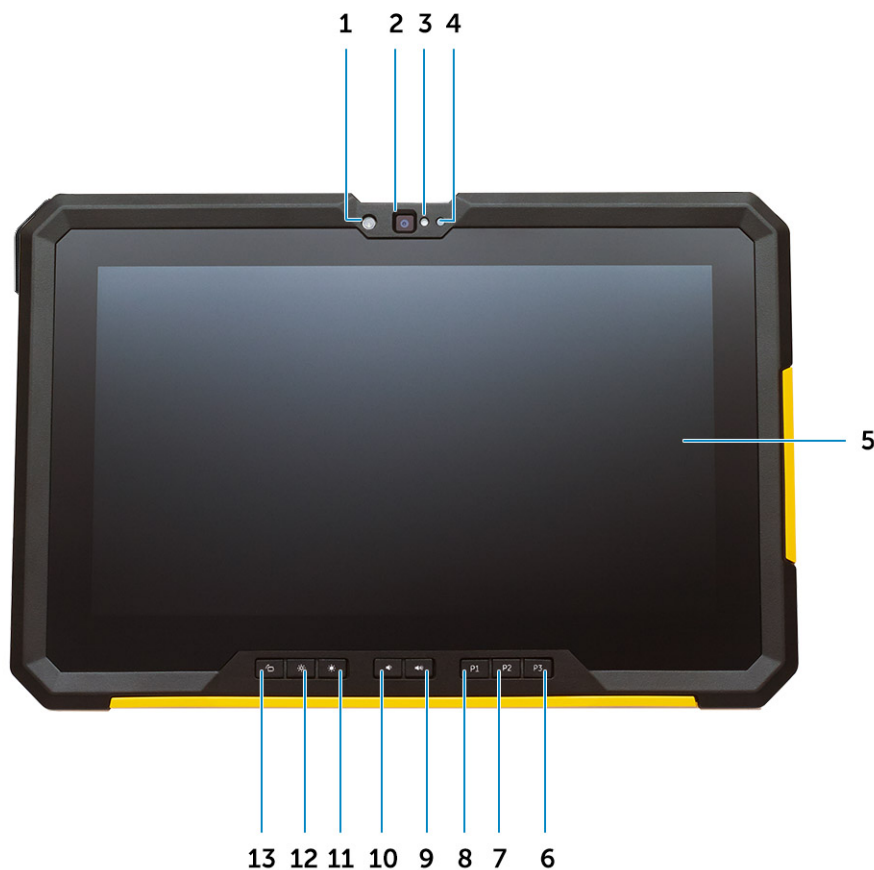
Dell apps	Details
	My Dell Centralized location for key Dell applications, help articles, and other important information about your computer. It also notifies you about the warranty status, recommended accessories, and software updates if available.
	Dell Product Registration Register your computer with Dell.
	Dell Help & Support Access help and support for your computer.
	SupportAssist Proactively checks the health of your computer's hardware and software.  NOTE: Renew or upgrade your warranty by clicking the warranty expiry date in SupportAssist.
	Dell Update Updates your computer with critical fixes and important device drivers as they become available.
	Dell Digital Delivery Download software applications including software that is purchased but not preinstalled on your computer.

Chassis overview

Topics:

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

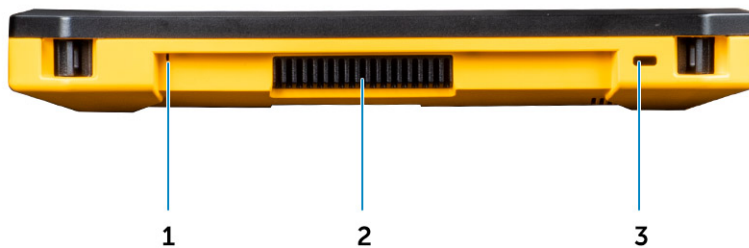
Front view



1. LED Lens
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

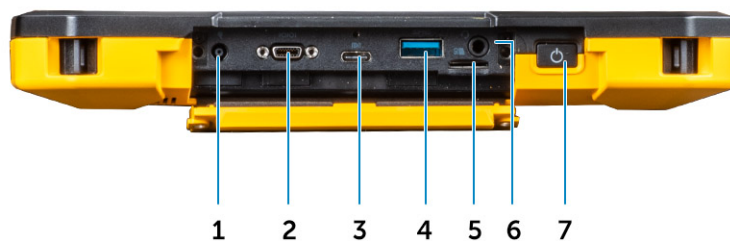
- 9. Volume increase button
- 10. Volume decrease button
- 11. Brightness increase button
- 12. Brightness decrease button
- 13. Screen rotate lock button.

Left view



- 1. Microphone
- 2. Quad cool vent output
- 3. Kensington lock slot.

Right view

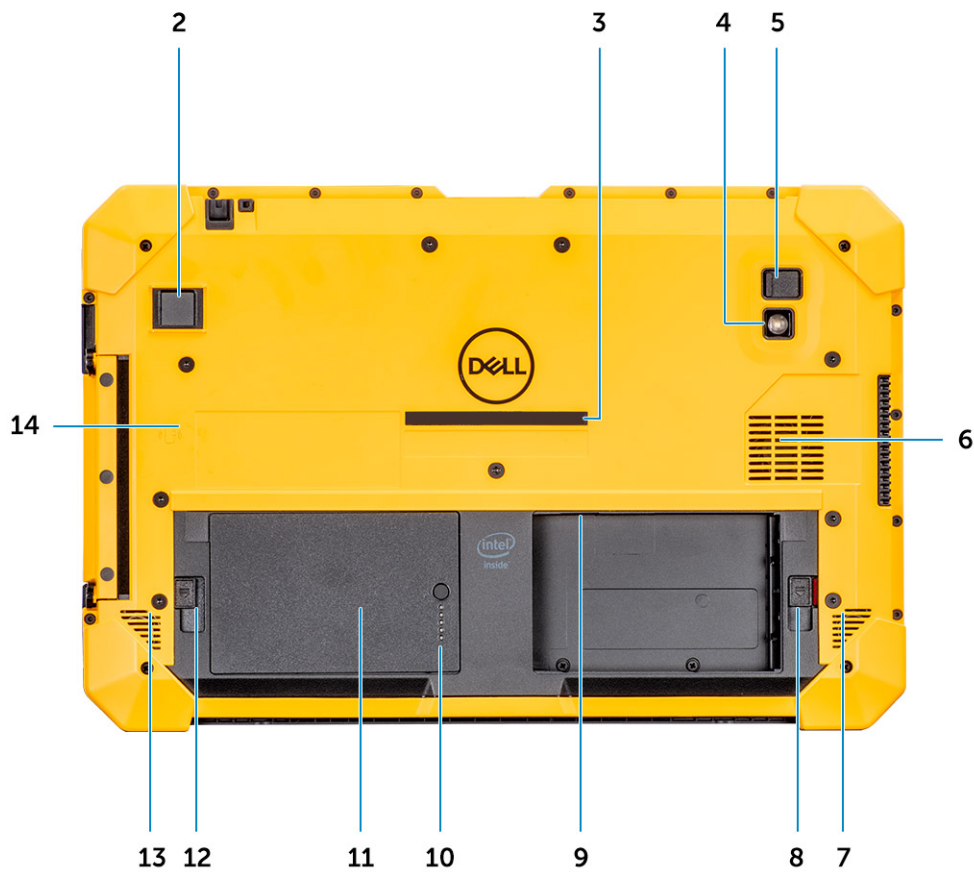


- 1. Power connector port
- 2. Micro serial RS-232 port
- 3. USB 3.0 Type-C port with DisplayPort Alt mode/PowerShare
- 4. USB 3.1 Type-A with Power Delivery
- 5. Micro SD-card slot
- 6. Universal audio jack
- 7. Power button/ LED status light

Back view

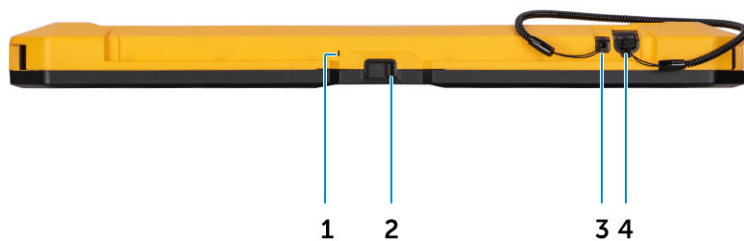


1



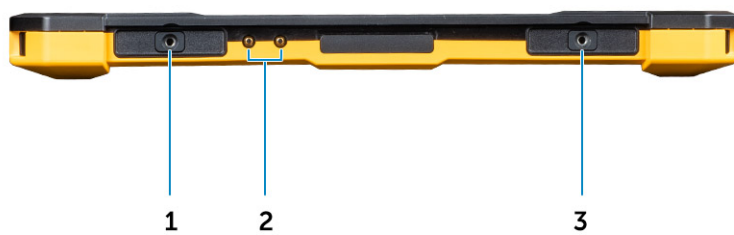
1. Battery bay cover
2. Fingerprint reader
3. Service tag and Express service code label
4. LED flash
5. Rear camera
6. Quad cool intake vent
7. Speaker
8. Right battery release latch
9. uSIM slot
10. Left battery LED indicator
11. Left battery
12. Left battery release latch
13. Speaker
14. Contactless smart card reader

Top view



1. Microphone
2. Camera shutter switch
3. Stylus lanyard attachment point
4. Stylus

Bottom view



1. Battery cover screw hole
2. Radio antennae pass-through connector
3. Battery cover screw hole

Technical specifications

Processors

Table 2. Processors

Processors	Wattage	Core count	Thread count	Speed	Cache	Integrated graphics
8th 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

Chipset

Table 3. Chipset

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

Operating system

Windows 10 Professional (64-bit)

Memory

Table 4. Memory specifications

Description	Values
Slots	Two integrated on system board
Type	LPDDR3
Speed	2133 MHz
Maximum memory	8 GB
Minimum memory	8 GB
Configurations supported	8 GB LPDDR3 at 2133 MHz (4 x 2 GB)

Storage

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

Table 5. Storage specifications

Storage type	Interface type	Capacity
One M.2 2280 solid-state drive	PCIe Gen3 x4 NVMe, Class 40 SSD	512 GB

Ports and connectors

Table 6. External ports and connectors

Description	Values
External:	
Network	Ethernet connection available through USB Type-C dock
USB	- One USB 3.1 Type-A with Power Delivery - One USB 3.0 Type-C port with DisplayPort Alt Mode/PowerShare
Audio	One headset (headphone and microphone combo) port
Video	Supported via USB Type-A/Type-C desk dock
Power adapter port	4.5 mm barrel-type - USB Type-C port
Security	Kensington lock slot
Card slot	Micro SD-card slot
Serial port	RS-232 micro connector

Table 7. Internal ports and connectors

Description	Values
Internal:	
One M.2 Key-M (2280) for solid-state drive	One M.2 2280 slot for solid-state drive 512 GB
One M.2 3042 Key-B for WWAN	 NOTE: To learn more about the features of different types of M.2 cards, see the knowledge base article SLN301626 .
One M.2 2230 Key-E for WLAN	
SIM card	uSIM card slot

Audio

Table 8. Audio specifications

Description	Values
Controller	Realtek ALC3254
Stereo conversion	Supported
Internal interface	Intel high definition audio (HDA)

Description	Values
External interface	Universal Audio Jack
Speakers	2 dual stereo
Speaker Output Average	2 W RMS
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 i5

Camera

Table 10. Camera specifications

Description	Values
Number of cameras	Two
Type	- Front Camera - 5 MP, RGBIr camera - Rear Camera - 8 MP, RGB camera with Flash LED
Location	- Front Camera - 5 MP - Rear Camera - 8 MP
Sensor type	CMOS sensor technology
Camera	
Still image	- Front Camera - 5.03 megapixels - Rear Camera - 7.99 megapixels
Video	- Front Camera - 2592 x 1944 (5 MP) at 30 fps - Rear Camera - 3264 x 2448 (8 MP) at 15 fps
Diagonal viewing angle	
Camera	- Front Camera - 88.9° - Rear Camera - 77.3°

Communications

Wireless module

Table 11. Wireless module specifications

Description		Values
Model number	Intel Wi-Fi 6 AX200 with MU-MIMO	DW5821E Snapdragon X20 4G/LTE Wireless WAN card
Transfer rate	Up to 1.73 Gbps	Up to 1.2 Gbps
Frequency bands supported	2.4 GHz/5 GHz	5 x 20 MHz
Wireless standards	• WiFi 802.11a/b/g • WiFi 4 (WiFi 802.11n) • WiFi 5 (WiFi 802.11ac) • WiFi 6 (WiFi 802.11ax)	• WCDMA (DB-DC-HSDPA, DC-HSUPA) • TD-SCDMA • CDMA 1x • EV-DO • GSM/EDGE
Encryption	• 64-bit and 128-bit WEP • AES-CCMP • TKIP	NA
Bluetooth	Bluetooth 5	NA

Media-card reader

Table 12. Media-card reader specifications

Description	Values
Type	Micro SD-card slot
Cards supported	• Micro Secure Digital (mSD) • Micro Secure Digital High Capacity (mSDHC) • Micro Secure Digital Extended Capacity (mSDXC)

Power adapter

Table 13. Power adapter specifications

Description		Values	
Type	E4 45 W	E4 90 W	45 W USB Type-C (optional)
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)	1.3 A	1.60 A	1.70 A
Output current (continuous)	2.31 A (continuous)	4.62 A (continuous)	4.62 A (continuous)
Rated output voltage	19.50 VDC	19.50 VDC	19.50 VDC
Temperature range:			

Description	Values		
Operating	0°C–40°C (32°F–104°F)	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)	–40°C–70°C (–40°F–158°F)

Battery

Table 14. Battery specifications

Description	Values
Type	Dual Hot-swappable 34 Whr, 2-Cell, ExpressCharge, Lithium Ion
Voltage	7.6 VDC
Weight (maximum)	220 g (0.48 lb)
Dimensions:	
Height	15.00 mm (0.59 in.)
Width	62.70 mm (2.46 in.)
Depth	103.60 mm (4.07 in.)
Temperature range:	
Operating	0°C–60°C (32°F–140°F)
Storage	–20°C–65°C (–4°F–149°F)
Operating time	Varies depending on operating conditions and can significantly reduce under certain power-intensive conditions.
Charging time (approximate)	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
Coin-cell battery	CR2032
Operating time	Varies depending on operating conditions and can significantly reduce under certain power-intensive conditions.

Dimensions and weight

Table 15. Dimensions and weight

Description	Values
Height:	
Front	214.20 mm (8.43 in.)
Rear	214.20 mm (8.43 in.)
Width	323.40 mm (12.73 in.)
Depth	28.9 mm (1.13 in.)
Weight	1.65 kg (3.64 lb)

Description	Values
<i>NOTE:</i> The weight of your tablet depends on the configuration ordered and the manufacturing variability.	

Display

Table 16. Display specifications

Decription	Values
Type	Full High Definition (FHD)
Panel technology	Wide View Angle (WVA)
Luminance (typical)	1000 nits
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
Glass	Gorilla glass 5

Fingerprint reader

Table 17. Fingerprint reader specifications

Description	Values
Sensor technology	Trans-capacitive sensing
Sensor resolution	363 dpi

Description	Values
Sensor area	6.90 mm x 5.25 mm
Sensor pixel size	70 um x 70 um

Security

Table 18. Security

Features	Specifications
Trusted Platform Module (TPM) 2.0	Integrated on system board
Fingerprint reader	Standard
Contactless Smartcard reader	Standard
Kensington security lock slot	Standard
Protected slot/vent openings	Standard

Data security

Table 19. 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 20. Regulatory, Environmental Compliance and TPM

Features	Specifications
Energy Star	Energy Star 7 compliant
TPM	- Hardware trusted Platform Module (Discrete TPM Enabled) - Firmware Trusted Platform Module only (Discrete TPM Disabled)
Environmental, Ergonomic, and Regulatory standards	- Energy Star - EPEAT* Registered - WEEE - Japan Energy Law - MIL-STD-810G and MIL-STD-810H Tested See your local representative or www.dell.com for specific details. *For specific country participation and rating, please see https://www.epeat.net

Computer environment

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

Table 21. Computer environment

Description	Operating	Storage
Temperature range	-29°C to 63°C (-20.2°F to 145.4°F)	-51°C to 71°C (-59.8°F to 159.8°F)
Relative humidity (maximum)	10% to 90% (non-condensing)	5% to 95% (non-condensing)
Vibration (maximum)*	0.26 GRMS	1.37 GRMS
Shock (maximum)	40 G†	30 G†
Altitude (maximum)	12,192 m (40,000 ft)	12,192 m (40,000 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.

Getting help

Topics:

- [Contacting Dell](#)

Contacting Dell

Prerequisites

 **NOTE:** If you do not have an active Internet connection, you can find contact information on your purchase invoice, packing slip, bill, or Dell product catalog.

About this task

Dell provides several online and telephone-based support and service options. Availability varies by country and product, and some services may not be available in your area. To contact Dell for sales, technical support, or customer service issues:

Steps

1. Go to <https://dell.com/support>.
2. Select your support category.
3. Verify your country or region in the **Choose a Country/Region** drop-down list at the bottom of the page.
4. Select the appropriate service or support link based on your need.