

Dell Pro 14 Premium

PA14250

Technical Guidebook

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.

Contents

Chapter 1: Views of Dell Pro 14 Premium PA14250.....	5
Right.....	5
Left.....	6
Top.....	7
Top (for computers shipped with Collaboration Touchpad).....	8
Front.....	9
Bottom.....	10
Locate the Service Tag or Express Service Code label of your computer.....	10
Battery-charge status light.....	11
 Chapter 2: Specifications of Dell Pro 14 Premium PA14250.....	 12
Dimensions and weight.....	12
Processor.....	12
Chipset.....	13
Operating system.....	13
Memory.....	13
External ports and slots.....	14
Internal slots.....	14
Wireless module.....	14
WWAN module.....	15
Audio.....	16
Storage.....	16
Keyboard.....	17
Camera.....	18
Touchpad.....	18
Touchpad with collaboration controls (optional).....	19
Power adapter.....	20
Power adapter requirements of Dell Pro 14 Premium PA14250 (for computers shipped with 2- cell, 40 Wh battery).....	20
Power adapter requirements of Dell Pro 14 Premium PA14250 (for computers shipped with 3- cell, 60 Wh battery).....	21
Battery.....	22
Display.....	23
Fingerprint reader (optional).....	24
Sensor	24
GPU—Integrated.....	25
Multiple display support matrix.....	25
Hardware security.....	25
Operating and storage environment.....	25
 Chapter 3: Engineering specifications.....	 27
Wireless module.....	27
Intel BE201, 2x2 MIMO, 5760 Mbps, 2.4/5/6 GHz, Wi-Fi 7 (WiFi 802.11be) and Bluetooth 5.4.....	27
WWAN module.....	28
Qualcomm Snapdragon X72 Global 5G Modem (DW5934e)	28

GPU—Integrated.....	29
Intel Arc Graphics.....	29
Video port and resolution matrix.....	30
Storage.....	30
M.2 2230 256 GB PCIe NVMe Gen4 x4 Class 35 Solid-State Drive.....	30
M.2 2230, 512 GB, TLC PCIe NVMe Gen 4, Class 35 SSD.....	31
M.2 2230, 1 TB, TLC PCIe NVMe Gen 4, Class 35 SSD.....	31
512 GB, M.2 2230, TLC PCIe NVMe Gen4, SED SSD (Opal certified).....	32
M.2 2230, 2 TB, PCIe NVMe Gen 4 x4, Class 25 SSD.....	32
Power adapter.....	33
Accessories.....	34
Security.....	34
Software security.....	34
Fingerprint reader.....	35
Trusted Platform Module.....	35
System management features.....	35
Dell Client Command Suite for in-band systems management	35
Out-of-band systems management.....	36
Dell Optimizer.....	36
Chapter 4: ComfortView Plus.....	37
Chapter 5: Color, material, and finish	38
Chapter 6: Keyboard shortcuts of Dell Pro 14 Premium PA14250.....	41
Chapter 7: Getting help and contacting Dell.....	43

Views of Dell Pro 14 Premium PA14250

Right

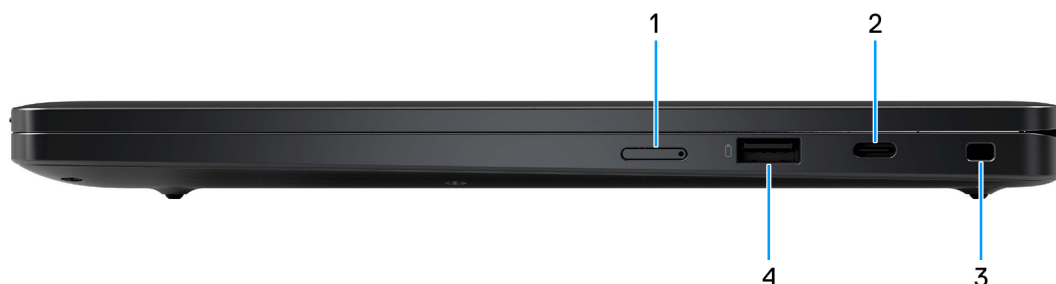


Figure 1. Right view

1. nano-SIM card slot

Insert a nano-SIM card to connect to a mobile broadband network.

2. Thunderbolt 4 port with DisplayPort Alt Mode/USB4/Power Delivery

Supports USB4, DisplayPort 1.4, Thunderbolt 4 and also enables you to connect to an external display using a display adapter. Supports data transfer rates of up to 40 Gbps for USB4 and Thunderbolt 4.

NOTE: You can connect a Dell Docking Station to the Thunderbolt 4 ports. For more information, search in the Knowledge Base Resource at [Dell Support Site](#).

NOTE: A USB Type-C to DisplayPort adapter (sold separately) is required to connect a DisplayPort device.

NOTE: USB4 is backward compatible with USB 3.2, USB 2.0, and Thunderbolt 3.

NOTE: Thunderbolt 4 supports two 4K displays or one 8K display.

3. Wedge-shaped lock slot

Connect a security cable to prevent unauthorized movement of your computer.

4. USB 3.2 Gen 1 port with PowerShare

Connect devices such as external storage devices and printers.

Supports data transfer speeds up to 5 Gbps. PowerShare enables you to charge your USB devices even when your computer is turned off.

NOTE: If your computer is turned off or in a hibernating state, you must connect the power adapter to charge your devices using the PowerShare port. You must enable this feature in the BIOS setup program.

NOTE: Certain USB devices may not charge when the computer is turned off or in a sleep state. In such cases, turn on the computer to charge the device.

Left

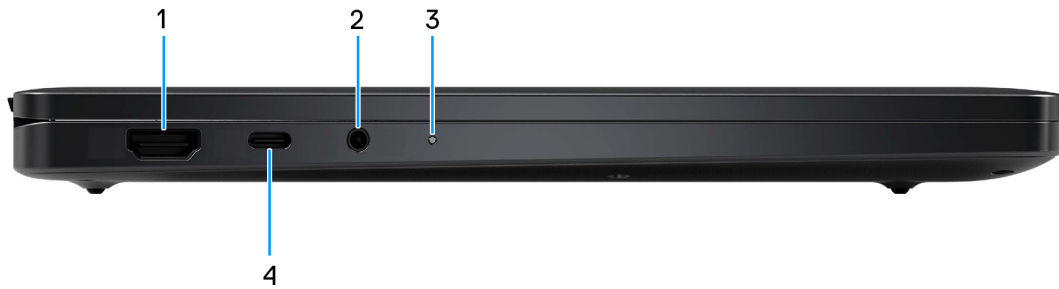


Figure 2. Left view

1. HDMI 2.1 port

Connect to a TV, external display, or another HDMI-in enabled device. Provides video and audio output.

2. Universal audio port

Connect headphones or a headset (headphone and microphone combo).

3. Battery indicator LED

Indicates the battery-charge status.

- Solid amber-Battery charge is low.
- Off-Battery is fully charged.

4. Thunderbolt 4 port with DisplayPort Alt Mode/USB4/Power Delivery

Supports USB4, DisplayPort 1.4, Thunderbolt 4 and also enables you to connect to an external display using a display adapter. Supports data transfer rates of up to 40 Gbps for USB4 and Thunderbolt 4.

i NOTE: You can connect a Dell Docking Station to the Thunderbolt 4 ports. For more information, search in the Knowledge Base Resource at [Dell Support Site](#).

i NOTE: A USB Type-C to DisplayPort adapter (sold separately) is required to connect a DisplayPort device.

i NOTE: USB4 is backward compatible with USB 3.2, USB 2.0, and Thunderbolt 3.

i NOTE: Thunderbolt 4 supports two 4K displays or one 8K display.

Top



Figure 3. Top view

1. Camera shutter

Slide the privacy shutter to the left to access the camera lens.

2. Power button with optional fingerprint reader

Press to turn on the computer if it is turned off, in sleep state, or in hibernating state.

When the computer is turned on, press the power button to put the computer into a sleep state; press and hold the power button for 10 s to force shut-down the computer.

If the power button has a fingerprint reader, place your finger on the power button steadily to log in.

NOTE: You can customize the power-button behavior in Windows.

3. Speakers

Provides audio output.

4. Zero-Lattice Keyboard with battery-saving backlight

Compact keyboard with larger keycaps and power-saving mini-LED backlight. Use the keyboard to input characters and perform functions.

5. Touchpad

Move your finger on the touchpad to move the mouse pointer.

Top (for computers shipped with Collaboration Touchpad)



Figure 4. Top view

1. Camera shutter

Slide the privacy shutter to the left to access the camera lens.

2. Power button with optional fingerprint reader

Press to turn on the computer if it is turned off, in sleep state, or in hibernating state.

When the computer is turned on, press the power button to put the computer into a sleep state; press and hold the power button for 10 s to force shut-down the computer.

If the power button has a fingerprint reader, place your finger on the power button steadily to log in.

NOTE: You can customize the power-button behavior in Windows.

3. Speakers

Provides audio output.

4. Zero-Lattice Keyboard with battery-saving backlight

Compact keyboard with larger keycaps and power-saving mini-LED backlight. Use the keyboard to input characters and perform functions.

5. Microphone control (Zoom app and Teams for work or school (Windows desktop) app support only)

Tap to mute or unmute the microphone. The microphone control indicates the status of the microphone as follows:

- Red – The microphone is muted.
- White – The microphone is unmuted.

6. Chat box control (Zoom app and Teams for work or school (Windows desktop) app support only)

Tap to show or hide the chat window. The control blinks when you receive a new chat message.

7. Screen share control (Zoom app and Teams for work or school (Windows desktop) app support only)

Tap to start or stop sharing your screen.

8. Webcam control (Zoom app and Teams for work or school (Windows desktop) app support only)

Tap to turn on or turn off the camera. The webcam control indicates the status of the camera as follows:

- Red – The camera is turned off.
- White – The camera is turned on.

Front

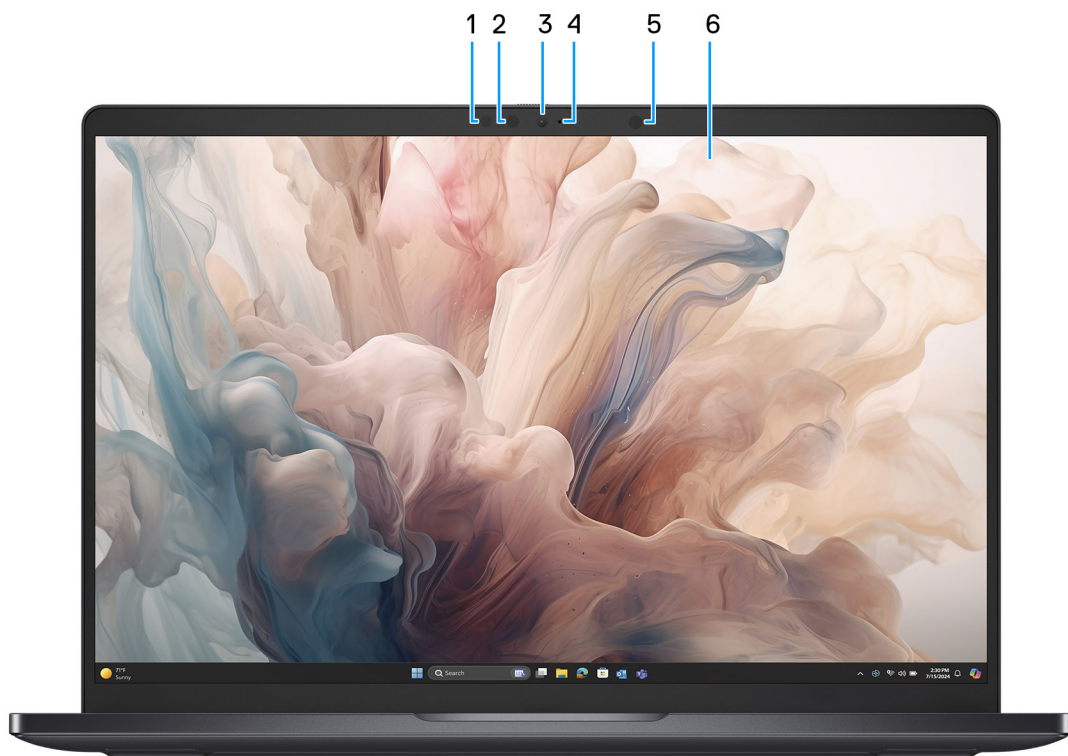


Figure 5. Front view

1. IR camera

Enhances security when paired with Windows Hello face authentication.

2. IR emitter

Emits infrared light, which enables the infrared camera to sense and track motion.

3. RGB UHD camera

Enables you to video chat, capture photos, and record videos.

4. Camera indicator LED

Turns on when the camera is in use.

5. Ambient Light Sensor

Detects the ambient light and automatically adjusts the display brightness.

6. Display panel

Provides visual output to the user.

Bottom

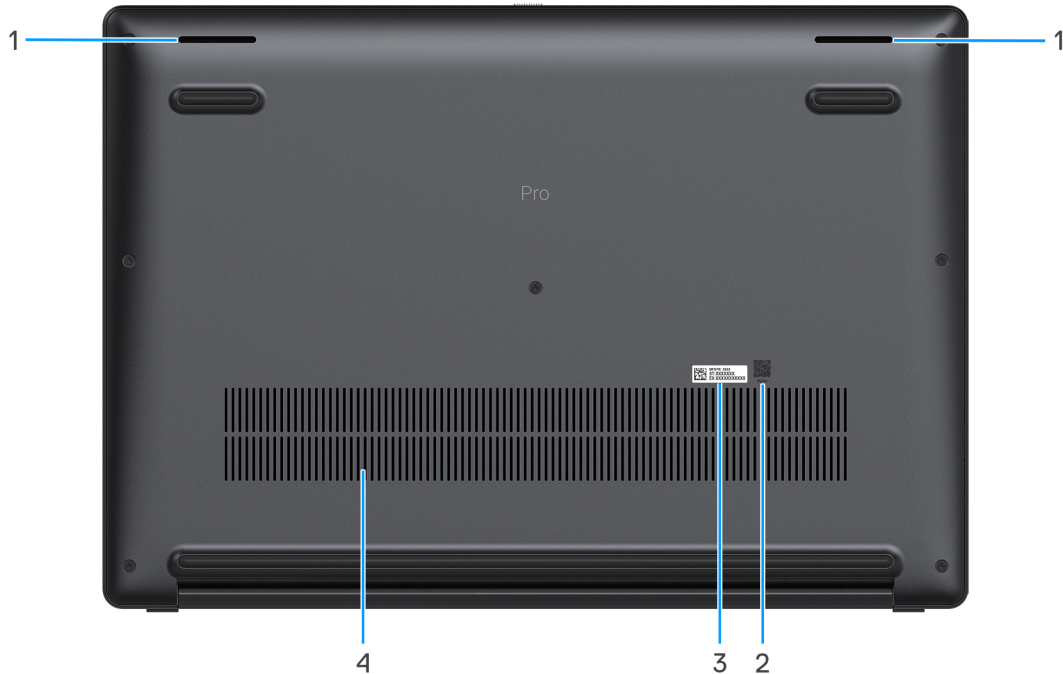


Figure 6. Bottom view

1. **Speakers**

Provide audio output.

2. **MyDell QR code**

MyDell is your hub for content personalized to your Dell Pro 14 Premium PA14250, including videos, articles, manuals, and access to support.

3. **Service Tag label**

The Service Tag is a unique alphanumeric identifier that enables Dell service technicians to identify the hardware components in your computer and access warranty information. The Express Service Code is a numeric version of the Service Tag.

4. **Air vents**

Air vents provide ventilation for your computer. Clogged air vents can cause overheating and can affect your computer's performance and potentially cause hardware issues. Keep the air vents clear of obstructions and clean them regularly to prevent the build-up of dust and dirt. For more information about cleaning air vents, search for articles in the Knowledge Base Resource at the [Dell Support site](#).

Locate the Service Tag or Express Service Code label of your computer

The service tag is a unique alphanumeric identifier that allows Dell service technicians to identify the hardware components in your computer and access warranty information. The Express Service Code is a numeric version of the Service Tag.

For more information about how to find the Service Tag of your computer, search in the Knowledge Base Resource at the [Dell Support Site](#).



Figure 7. Service Tag/Express Service Code location

Battery-charge status light

The following table lists the battery-charge status light of your Dell Pro 14 Premium PA14250.

Table 1. Battery charge and status light behavior

Power source	LED behavior	System power state	Battery charge level
AC adapter	Off	S0 or S5	Fully charged
AC adapter	Solid white	S0 or S5	< Fully charged
Battery	Off	S0 or S5	11-100%
Battery	Solid amber (590+/-3 nm)	S0 or S5	< 10%


- S0 (ON): Computer is turned on.
- S4 (Hibernate): The computer consumes the least power in the Hibernate state than in the ON or OFF state. The computer is almost in the OFF state. The context data is written to a storage device, allowing you to resume from where you left when the computer is turned on.
- S5 (OFF): The computer is in a shutdown state.

Specifications of Dell Pro 14 Premium PA14250

Dimensions and weight

The following table lists the height, width, depth, and weight of your Dell Pro 14 Premium PA14250.

Table 2. Dimensions and weight

Description	Values
Height:	
Front height	16.38 mm (0.64 in.)
Rear height	16.99 mm (0.67 in.)
Width	311.20 mm (12.25 in.)
Depth	216.70 mm (8.53 in.)
Weight (Minimum)  NOTE: The weight of your computer depends on the configuration that is offered.	1.14 kg (2.52 lb)

Processor

The following table lists the details of the processors that are supported in your Dell Pro 14 Premium PA14250.

Table 3. Processor

Description	Option one	Option two	Option three	Option four
Processor type	Intel Core Ultra 5 236V vPro Enterprise	Intel Core Ultra 5 238V vPro Enterprise	Intel Core Ultra 7 266V vPro Enterprise	Intel Core Ultra 7 268V vPro Enterprise
Processor wattage	17.50 W	17.50 W	17.50 W	17.50 W
Processor core count	8	8	8	8
Processor thread count	8	8	8	8
Processor speed	up to 4.70 GHz	up to 4.70 GHz	up to 5 GHz	up to 5 GHz
Processor cache	8 MB	8 MB	12 MB	12 MB
Integrated graphics	Intel Arc Graphics 130 V	Intel Arc Graphics 130V	Intel Arc Graphics 140V	Intel Arc Graphics 140V

Chipset

The following table lists the details of the chipset that is supported in your Dell Pro 14 Premium PA14250.

Table 4. Chipset

Description	Values
Chipset	Integrated in the processor
Processor	Intel Core Ultra 5/7
DRAM bus width	64-bit
Flash EPROM	64 MB
PCIe bus	up to Gen4

Operating system

Your Dell Pro 14 Premium PA14250 supports the following operating systems:

- Windows 11 24H2
- Windows 11 23H2
- Windows 10 22H2
- Ubuntu Linux 24.04

NOTE: Windows 10 22H2 is only for custom configured computers downgraded by end users from Windows 11. Windows 10 22H2 downgraded installations are supported by customer internal IT and is subjected to the Microsoft Windows 10 End of Support plan.

Memory

The following table lists the memory specifications of your Dell Pro 14 Premium PA14250.

Table 5. Memory specifications

Description	Values
Memory slots	Onboard memory
Memory type	LPDDR5x
Memory speed	8533 MT/s
Maximum memory configuration	32 GB
Minimum memory configuration	16 GB
Memory configurations supported	<ul style="list-style-type: none">• 16 GB, 1 x 16 GB, LPDDR5x, 8533 MT/s• 32 GB, 1 x 32 GB, LPDDR5x, 8533 MT/s

External ports and slots

The following table lists the external ports and slots of your Dell Pro 14 Premium PA14250.


Table 6. External ports and slots

Description	Values
USB ports	<ul style="list-style-type: none">One USB 3.2 Gen 1 (5 Gbps) with PowerShare port
Audio port	One universal audio port
Video port(s)	<ul style="list-style-type: none">Two Thunderbolt 4 (40 Gbps) with DisplayPort Alt Mode/USB Type-C/USB4/Power Delivery portsOne HDMI 2.1 port
Media-card reader	Not supported
Power-adaptor port	Supported through the Thunderbolt 4 ports available on the computer
Security-cable slot	One wedge-shaped security slot
SIM-card slot	One nano-SIM card slot (optional)

Internal slots

The following table lists the internal slots of your Dell Pro 14 Premium PA14250.

Table 7. Internal slots

Description	Values
M.2	<ul style="list-style-type: none">One M.2 2230 slot for solid-state driveOne M.2 3052 slot for 5G WWAN card <p> NOTE: To learn more about the features of different types of M.2 cards, search in the Knowledge Base Resource at Dell Support Site.</p>

Wireless module

The following table lists the Wireless Local Area Network (WLAN) module that is supported on your Dell Pro 14 Premium PA14250.

Table 8. Wireless module specifications

Description	Values
Model number	Intel WiFi 7 BE201
Transfer rate	5670 Mbps
Frequency bands supported	2.40 GHz/5 GHz/6 GHz
Wireless standards	<ul style="list-style-type: none">WiFi 802.11a/b/gWi-Fi 4 (WiFi 802.11n)Wi-Fi 5 (WiFi 802.11ac)

Table 8. Wireless module specifications (continued)

Description	Values
	<ul style="list-style-type: none"> • Wi-Fi 6E (WiFi 802.11ax) • Wi-Fi 7 (WiFi 802.11be)
Encryption	<ul style="list-style-type: none"> • 64-bit/128-bit WEP • AES-CCMP • TKIP
Bluetooth wireless card	Bluetooth 5.4 <i>NOTE:</i> The functionality of the Bluetooth wireless card may vary depending on the operating system that is installed on your computer.

WWAN module

The following table lists the Wireless Wide Area Network (WWAN) module that is supported in your Dell Pro 14 Premium PA14250.

NOTE: The WWAN module is available only on certain configurations and in certain regions.


NOTE: Availability of the eSIM feature on this module depends your region.

NOTE: For instructions on how to setup SIM or eSIM connections on your computer, see the *SIM/eSIM Setup Guide for Windows* available with your product documentation at [Dell Support Site](#).

Table 9. WWAN module specifications

Description	Values
Model number	Qualcomm Snapdragon X72 Global 5G Modem (DW5934e)
Form factor	M.2 3052 Key-B
Host interface	PCIe Gen3
Network standard	NR FR1(Sub6) FDD/TDD, LTE FDD/TDD, WCDMA/HSPA+, GPS/GLONASS/Galileo/Beidou
Transfer data rate	<ul style="list-style-type: none"> • 5G NR: DL 4.14Gbps/UL 900Mbps • LTE: DL 2.0Gbps (CAT20)/UL 211Mbps (CAT18) • UMTS: DL DC-HSPA+ Rel8:42 Mbps/UL 5.76 Mbps
Operating frequency bands	<ul style="list-style-type: none"> • NR(n1, n2, n3, n5, n7, n8, n12, n13, n14, 18, n20, n25, n26, n28, n29, n30, n38, n40, n41, n48, n66, n67, n70, n71, n75, n76, n77, n78, n79, n91, n92, n93, n94) • LTE (B1, B2, B3, B4, B5, B7, B8, B12, B13, B14, B17, B18, B19, B20, B25, B26, B28, B29, B30, B32, B34, B38, B39, B40, B41, B42, B43, B46, B48, B66, B67, B68, B70, B71) • WCDMA/HSPA+ (1, 2, 4, 5, 8)
Power supply	DC 3.135 V to 3.63 V, typical 3.3 V
SIM card	Supported through external SIM slot
eSIM with dual SIM (DSSA)	Supported

Table 9. WWAN module specifications (continued)

Description	Values
Antenna diversity	Supported
Radio on/off	Supported
Wake On Wireless	Supported in Morden Standby mode
Temperature	<ul style="list-style-type: none"> Normal operating temperature: –30°C to +70°C Extended operating temperature: –40°C to +85°C Storage temperature: –40°C to +85°C
Antenna connector	<ul style="list-style-type: none"> WWAN Main Antenna x 1 WWAN Diversity Antenna x 1 4x4 MIMO Antenna x 2
 NOTE: For instructions to find your computer's International Mobile Equipment Identity (IMEI) number, search in the Knowledge Base Resource at Dell Support Site .	

Audio

The following table lists the audio specifications of your Dell Pro 14 Premium PA14250.

Table 10. Audio specifications

Description		Values
Audio controller		Cirrus CS42L43 and Cirrus CS35L56
Stereo conversion		Supported
Internal audio interface		High-definition audio
External audio interface		Universal audio port
Number of speakers		Four
Internal-speaker amplifier		Supported (audio codec integrated)
External volume controls		Keyboard shortcut controls
Speaker output:		
	Average	2 W
	Peak	2.5 W
Microphone		Digital-array microphones in camera assembly

Storage

This section lists the storage options on your Dell Pro 14 Premium PA14250.

Your computer supports the following storage configuration:

- One M.2 2230 solid-state drive

The M.2 2230 solid-state drive is the primary drive of your computer.



Table 11. Storage specifications

Storage type	Interface type	Capacity
M.2 2230 solid state drive, Class 35	TLC PCIe Gen4 NVMe	256 GB/512 GB/1 TB
M.2 2230 solid-state drive, Self-encrypting drive, Opal 2.0, Class 35	TLC PCIe Gen4 NVMe	512 GB
M.2 2230 solid state drive, Class 25	QLC PCIe Gen4 NVMe	2 TB

Keyboard

The following table lists the keyboard specifications of your Dell Pro 14 Premium PA14250.

Table 12. Keyboard specifications

Description	Values
Keyboard type	Battery-saving mini LED backlit zero-lattice keyboard
Keyboard layout	QWERTY
Number of keys	<ul style="list-style-type: none"> English US, English International, Arabic, Canada bilingual (MUI), Chinese traditional, French-Canadian, Greek, Hebrew, Korean, Russian, Thai, Ukrainian: 79 keys French-Canadian Quebec, Belgian, Bulgarian, Czech & Slovakian (MUI), Danish, English UK, Estonian, French European, German, Hungarian, Icelandic, Italian, Nordic (MUI), Norwegian, Portugese Iberian, Slovenian, Spanish (Castillian), Spanish (Latin America), Swedish/Finnish, Swiss European (MUI), Turkish, Turkish (F): 80 keys Japanese: 83 keys Portuguese Brazilian: 81 keys
Keyboard size	X=18.05 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 the BIOS setup program.</p> <p> NOTE: If Copilot in Windows is not available on your computer, pressing the Copilot key launches Windows search. For more information about Copilot in Windows, search in the Knowledge Base Resource at the Dell Support site.</p>

Camera

The following table lists the camera specifications of your Dell Pro 14 Premium PA14250.

Table 13. Camera specifications

Description		Values
Number of cameras		Two
Camera type		There are 2 camera options: <ul style="list-style-type: none">• IR Camera• IR Camera with Presence Detection (Synaptics)
Camera location		Front camera
Camera sensor type		CMOS sensor technology
Camera resolution:		
	Still image	8.0 megapixel
	Video	2560 x 1440 at 30 fps NOTE: The default resolution for video is set at 1080p. For more information about changing the camera resolution, search for information about changing the camera resolution in Windows 11 at the Microsoft Support Site .
Infrared camera resolution:		
	Still image	0.23 megapixel
	Video	640 x 360 at 30 fps
Diagonal viewing angle:		
	Camera	88.1 degrees
	Infrared camera	86.6 degrees

Touchpad

The following table lists the touchpad specifications of your Dell Pro 14 Premium PA14250.

Table 14. Touchpad specifications

Description		Values
Touchpad resolution:		>300 dpi
Touchpad dimensions:		
	Horizontal	125 mm (4.92 in.)
	Vertical	75 mm (2.95 in.)
Touchpad gestures		For more information about the touchpad gestures available on Windows, see the Microsoft Knowledge Base article at Microsoft Support Site .


Touchpad with collaboration controls (optional)

The following table lists the touchpad specifications of your Dell Pro 14 Premium PA14250 (for computers shipped with Collaboration Touchpad).

Table 15. Touchpad specifications

Description		Values
Touchpad type		Collaboration Touchpad
Collaboration controls on touchpad		Four controls are available to control video, share screen, chat, and mute functions during conference calls. The controls are visible on the touchpad during any conference calls. Compatible with Zoom and Teams for work or school.
Collaboration controls settings		<ul style="list-style-type: none"> Control brightness manually or configure icon brightness to automatically adjust to the ambient light. Customize settings to activate collaboration controls with a single tap or a double tap. Customize specific controls to be activated or deactivated.
Collaboration controls functionality		<p>Video icon: Turn on or off the camera.</p> <ul style="list-style-type: none"> White icon: The camera is turned on. Red icon: The camera is off. <p>Share screen icon: Tap once to share your screen. Tap again to stop sharing.</p> <p>Chat icon: Show or hide the chat window. The icon blinks when you receive a new chat message.</p> <p>Microphone icon: Turn on or mute the microphone.</p> <ul style="list-style-type: none"> White icon: The microphone is turned on. Red icon: The microphone is muted.
Required apps for collaboration controls		<ul style="list-style-type: none"> Dell Optimizer Version 4.2.0.0 and higher Zoom Client Version 5.9.3 and higher Teams for work or school (Windows desktop) Version 1.6.00.24078 and higher
Touchpad resolution:		
	Horizontal	>300 dpi
	Vertical	Not supported
Touchpad dimensions:		
	Horizontal	125 mm (4.92 in.)
	Vertical	71 mm (2.79 in.)
Touchpad gestures		For more information about touchpad gestures available on Windows, see the Microsoft Knowledge Base article at Microsoft Support Site .
<p>NOTE: To enjoy the collaboration touchpad (CTP) controls feature on your keyboard, ensure that you have the latest versions of the Dell Optimizer app and Zoom or Teams for work or school that is installed on your computer. Dell Optimizer offers a modular installation which allows you to select the modules you want to install. Install the collaboration touchpad module within the Dell Optimizer app to enjoy the functionality of collaboration controls. For more information, search for <i>Dell Optimizer</i> in the Knowledge Base Resource at the Dell Support Site.</p> <p>NOTE: For more information about how to configure and use your collaboration controls, search for the Collaboration Touchpad Reference Guide in the Knowledge Base Resource at Dell Support Site. Or, watch the video at Dell Collaboration Touchpad.</p>		


Table 15. Touchpad specifications (continued)

Description	Values
 NOTE: Collaboration Touchpad is supported only on Teams for work or school (Windows desktop) application. Teams for home and Teams on web are not supported.	


Power adapter

The following table lists the power adapter specifications of your Dell Pro 14 Premium PA14250.

Table 16. Power-adapter specifications

Description	Option one	Option two	Option three
Type	60 W AC ultralight mini adapter, USB Type-C	65 W AC adapter, USB Type-C	100 W AC adapter, USB Type-C
Power-adapter dimensions:			
Height	22 mm (0.86 in.)	28 mm (1.10 in.)	26.50 mm (1.04 in.)
Width	55 mm (2.16 in.)	51 mm (2.01 in.)	60.00 mm (2.36 in.)
Depth	66 mm (2.59 in.)	112 mm (4.41 in.)	122.00 mm (4.80 in.)
Input voltage	100 VAC to 240 VAC	100 VAC to 240 VAC	100 VAC to 240 VAC
Input frequency	50 Hz to 60 Hz	50 Hz to 60 Hz	50 Hz to 60 Hz
Input current (maximum)	1.7 A	1.7 A	1.7 A
Output current (continuous)	<ul style="list-style-type: none"> 20 V/3 A 15 V/3 A 9 V/3 A 5 V/3 A 	<ul style="list-style-type: none"> 20 V/3.25 A 15 V/3 A 9 V/3 A 5 V/3 A 	<ul style="list-style-type: none"> 20 V/5 A 15 V/3 A 9 V/3 A 5 V/3 A
Rated output voltage	<ul style="list-style-type: none"> 20 VDC 15 VDC 9 VDC 5 VDC 	<ul style="list-style-type: none"> 20 VDC 15 VDC 9 VDC 5 VDC 	<ul style="list-style-type: none"> 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)	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)	-40°C to 70°C (-40°F to 158°F)
 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.			

Power adapter requirements of Dell Pro 14 Premium PA14250 (for computers shipped with 2-cell, 40 Wh battery)

 **NOTE:** If you did not purchase the Dell-branded power adapter that is recommended for your computer, ensure that the power adapter you use meets the following requirements.

The following table lists the power adapter requirements for your Dell Pro 14 Premium PA14250.

Table 17. Power adapter requirements

Description	Value
Power that is required from a power adapter to achieve optimal performance	100 W
Power that charges the computer at a slower speed <i>i</i> NOTE: A warning message may appear informing you about the use of a lower-powered adapter and slower charging speed.	Less than 100 W
Minimum power that is required from a power adapter to operate the computer and charge the battery <i>i</i> NOTE: A warning message appears informing you about the use of a lower-powered adapter and slower charging speed.	27 W
USB Power Delivery (PD) fast charging	Supported
ExpressCharge mode	Supported <i>i</i> NOTE: Ensure that the computer is connected to a 100 W power adapter for this feature to be supported. <i>i</i> NOTE: ExpressCharge mode must also be enabled in the BIOS Setup screen. Select Power > Battery Configuration > ExpressCharge , then press Enter .

Power adapter requirements of Dell Pro 14 Premium PA14250 (for computers shipped with 3-cell, 60 Wh battery)

i **NOTE:** If you did not purchase the Dell-branded power adapter that is recommended for your computer, ensure that the power adapter you use meets the following requirements.

The following table lists the power adapter requirements for your Dell Pro 14 Premium PA14250 (for computers that are shipped with 3-cell, 60 Wh battery).

Table 18. Power adapter requirements

Description	Value
Power that is required from a power adapter to achieve optimal performance	100 W
Power that charges the computer at a slower speed <i>i</i> NOTE: A warning message may appear informing you about the use of a lower-powered adapter and slower charging speed.	Less than 100 W
Minimum power that is required from a power adapter to operate the computer and charge the battery <i>i</i> NOTE: A warning message appears informing you about the use of a lower-powered adapter and slower charging speed.	27 W
USB Power Delivery (PD) fast charging	Supported
ExpressCharge mode	Supported <i>i</i> NOTE: Ensure that the computer is connected to a 100 W power adapter for this feature to be supported. <i>i</i> NOTE: ExpressCharge mode must also be enabled in the BIOS Setup screen. Select Power > Battery Configuration > ExpressCharge , then press Enter .

Battery

The following table lists the battery specifications of your Dell Pro 14 Premium PA14250.



Table 19. Battery specifications

Description	Option one	Option two	Option three	Option four
Battery type	2-cell, 40 Wh, Lithium Ion, ExpressCharge 2.0, ExpressCharge Boost	2-cell, 40 Wh, Lithium Ion, ExpressCharge 2.0, ExpressCharge Boost, Long Life Cycle	3-cell, 60 Wh, Lithium Ion, ExpressCharge, ExpressCharge Boost	3-cell, 60 Wh, Lithium Ion, ExpressCharge, ExpressCharge Boost, Long Life Cycle
Battery voltage	7.80 VDC	7.80 VDC	11.70 VDC	11.70 VDC
Battery weight (maximum)	155 gm	155 gm	215 gm	215 gm
Battery dimensions:				
Height	6.15 mm (0.24 in.)	6.15 mm (0.24 in.)	6.15 mm (0.24 in.)	6.15 mm (0.24 in.)
Width	248 mm (9.76 in.)	248 mm (9.76 in.)	248 mm (9.76 in.)	248 mm (9.76 in.)
Depth	65.10 mm (2.56 in.)	65.10 mm (2.56 in.)	65.10 mm (2.56 in.)	65.10 mm (2.56 in.)
Temperature range:				
Operating	0°C to 60°C (32°F to 140°F)	0°C to 60°C (32°F to 140°F)	0°C to 60°C (32°F to 140°F)	0°C to 60°C (32°F to 140°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)
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.	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)	<p>Express Charge Method:</p> <ul style="list-style-type: none"> 0 - 15°C maximum allowable charge time from 0 to 100% RSOC is 4 hours 16 - 45°C normal express charge 46 - 50°C maximum allowable charge time from 0 to 100% RSOC is 3 hours <p>Standard Charge/ Predominately AC User Charge Method:</p> <ul style="list-style-type: none"> 0 - 15°C maximum allowable charge time from 0 to 	<p>Express Charge Method:</p> <ul style="list-style-type: none"> 0 - 15°C maximum allowable charge time from 0 to 100% RSOC is 4 hours 16 - 45°C normal express charge 46 - 50°C maximum allowable charge time from 0 to 100% RSOC is 3 hours <p>Standard Charge/ Predominately AC User Charge Method:</p> <ul style="list-style-type: none"> 0 - 15°C maximum allowable charge time from 0 to 100% RSOC is 4 hours 16 - 50°C maximum allowable charge time from 0 to 100% RSOC is 3 hours 	<p>Express Charge Method:</p> <ul style="list-style-type: none"> 0 - 15°C maximum allowable charge time from 0 to 100% RSOC is 4 hours 16 - 45°C normal express charge 46 - 50°C maximum allowable charge time from 0 to 100% RSOC is 3 hours <p>Standard Charge/ Predominately AC User Charge Method:</p> <ul style="list-style-type: none"> 0 - 15°C maximum allowable charge time from 0 to 100% RSOC is 4 hours 16 - 50°C maximum allowable charge time from 0 to 100% RSOC is 3 hours 	<p>Express Charge Method:</p> <ul style="list-style-type: none"> 0 - 15°C maximum allowable charge time from 0 to 100% RSOC is 4 hours 16 - 45°C normal express charge 46 - 50°C maximum allowable charge time from 0 to 100% RSOC is 3 hours <p>Standard Charge/ Predominately AC User Charge Method:</p> <ul style="list-style-type: none"> 0 - 15°C maximum allowable charge time from 0 to 100% RSOC is 4 hours 16 - 50°C maximum allowable charge time from 0 to 100% RSOC is 3 hours



NOTE: You can control the charging time, duration, start and end time, and so on, using the settings on the MyDell application (Power option). For more information about MyDell application, search in the Knowledge Base Resource at [Dell Support Site](#).

Table 19. Battery specifications (continued)

Description	Option one	Option two	Option three	Option four
	100% RSOC is 4 hours <ul style="list-style-type: none"> 16 - 50°C maximum allowable charge time from 0 to 100% RSOC is 3 hours Express Charge Boost Charge Method (Fast Charge for Initial 35%): <ul style="list-style-type: none"> 16 - 45°C target charge time from 0 to 35% RSOC is 20 mins for Accelerated Charge 	Express Charge Boost Charge Method (Fast Charge for Initial 35%): <ul style="list-style-type: none"> 16 - 45°C target charge time from 0 to 35% RSOC is 20 mins for Accelerated Charge 	Express Charge Boost Charge Method (Fast Charge for Initial 35%): <ul style="list-style-type: none"> 16 - 45°C target charge time from 0 to 35% RSOC is 20 mins for Accelerated Charge 	Express Charge Boost Charge Method (Fast Charge for Initial 35%): <ul style="list-style-type: none"> 16 - 45°C target charge time from 0 to 35% RSOC is 20 mins for Accelerated Charge
Coin-cell battery	Not Supported	Not Supported	Not Supported	Not Supported
<p> 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.</p> <p> CAUTION: Dell Technologies recommends that you charge the battery regularly for optimal power consumption.</p>				

Display

The following table lists the display specifications of your Dell Pro 14 Premium PA14250.

Table 20. Display specifications

Description		Option one	Option two	Option three
Display type		Full High Definition Plus (FHD+)	Quad High Definition Plus (QHD+), Battery saving, ComfortView Plus	Full High Definition Plus (FHD+), Battery saving, ComfortView Plus
Touch options		No	Yes	No
Display-panel technology		Wide-viewing angle (WVA/IPS)	OLED	Wide-viewing angle (WVA/IPS)
Display-panel dimensions (active area):				
	Height	188.50 mm	188.50 mm	188.50 mm
	Width	301.60 mm	301.60 mm	301.60 mm
	Diagonal	355.60 mm	355.60 mm	355.60 mm
Display-panel native resolution		1920 x 1200	2880 x 1800	1920x1200
Luminance (typical)		300 nits	400 nits	400 nits

Table 20. Display specifications (continued)

Description	Option one	Option two	Option three
Megapixels	2.3	5.1	2.3
Color gamut	100% sRGB	100% DCIP3	sRGB 100% typ.
Pixels Per Inch (PPI)	162 ppi	242 ppi	162 ppi
Contrast ratio (typical)	800:1	1000000:1	1200:1
Response time (maximum)	35 ms	1 ms	35 ms
Refresh rate	30 Hz to 60 Hz	30 Hz to 60 Hz	30 Hz to 60 Hz
Horizontal view angle	+/- 85 degrees (typ.)	+/- 85 degrees (typ.)	+/- 85 degrees (typ.)
Vertical view angle	+/- 85 degrees (typ.)	+/- 85 degrees (typ.)	+/- 85 degrees (typ.)
Pixel pitch	0.11 mm x 0.15 mm	0.10 x 0.10 mm	0.15 x 0.15 mm
Power consumption (maximum)	3.68 W	5.63 W	2.50 W
Anti-glare vs glossy finish	Anti-glare	Anti-reflection	Anti-glare

Fingerprint reader (optional)

The following table lists the specifications of the optional fingerprint-reader of your Dell Pro 14 Premium PA14250.


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

Table 21. Fingerprint reader specifications

Description	Values
Sensor technology	Trans-capacitive sensing
Sensor resolution	500 dpi
Sensor pixel size	<ul style="list-style-type: none"> X: 108 Y: 88

Sensor

The following table lists the sensor of your Dell Pro 14 Premium PA14250.

Table 22. Sensor

Sensor support
Accelerometer (ST Micro LIS2DW12TR): On the base of the system board
Accelerometer (ST Micro LIS2DW12TR): On the hinge-up mid-board in the upsell configuration of laptop MIPI RGB+IR camera
Ambient Light Sensor (optional)
Proximity for SAR compliance (for the WWAN module) Near Field Proximity Sensor
Hall Effect Sensor

Table 22. Sensor (continued)

Sensor support
Sensor Hub (integrated)

GPU—Integrated

The following table lists the specifications of the integrated Graphics Processing Unit (GPU) supported by your Dell Pro 14 Premium PA14250.

Table 23. GPU—Integrated

Controller	Memory size	Processor
Intel Arc Graphics 130V	Shared system memory	Intel Core Ultra 5
Intel Arc Graphics 140V	Shared system memory	Intel Core Ultra 7

Multiple display support matrix

The following table lists the multiple display support matrix for your Dell Pro 14 Premium PA14250.

Table 24. Multiple display support matrix

Graphics Card	Direct Graphics Controller Direct Output Mode	Supported external displays with computer internal display on	Supported external displays with computer internal display off
Intel Arc Graphics	Not applicable	3	4

Hardware security

The following table lists the hardware security of your Dell Pro 14 Premium PA14250.

Table 25. Hardware security


Hardware security
Trusted Platform Module (TPM) 2.0 discrete
FIPS 140-2 certification for TPM
Trusted Computing Group (TCG) Certification for TPM
SED SSD NVMe, SSD (Opal and non-Opal) per SDL
One wedge-shaped lock slot
SED (Opal 2.0 only - PCIe Interface)
Windows Hello - Fingerprint Reader (optional)
Mechanical privacy shutter for camera (only for metal laptops)
Chassis Intrusion Detection

Operating and storage environment

This table lists the operating and storage specifications of your Dell Pro 14 Premium PA14250.

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

Table 26. 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 90% (non-condensing)	0% to 95% (non-condensing)
Vibration (maximum)*	0.66 GRMS	1.30 GRMS
Shock (maximum)	110 G†	160 G†
Altitude range	-15.2 m to 3048 m (4.64 ft to 5518.4 ft)	-15.2 m to 10668 m (4.64 ft to 19234.4 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 the user environment.

† Measured using a 2 ms half-sine pulse.

Engineering specifications

Wireless module

Intel BE201, 2x2 MIMO, 5760 Mbps, 2.4/5/6 GHz, Wi-Fi 7 (WiFi 802.11be) and Bluetooth 5.4


The following table lists the Intel BE201 specifications.

Table 27. Intel BE201 specifications

Description	Value
Host interface	Intel CNVio
Network standard	IEEE 802.11a/b/g/n/ac/ax/be, 320 MHz channel use, MU-MIMO, new 6 GHz band
Wi-Fi Alliance certifications	Wi-Fi 7 Technology support, Wi-Fi CERTIFIED 6 with Wi-Fi 6E, Wi-Fi CERTIFIED a/b/g/n/ac, WMM, WMM-Power Save, WPA3, PMF, Wi-Fi Direct, Wi-Fi Agile Multiband, Wi-Fi Location R2 HW readiness
Operating frequency bands	<ul style="list-style-type: none"> • 2.4 GHz • 5 GHz • 6 GHz
Data rate	<ul style="list-style-type: none"> • 2.4 GHz 40M: Up to 688 Mbps • 5/6 GHz 80M: Up to 1.44 Gbps • 5/6 GHz 160M: Up to 2.88 Gbps • 5/6 GHz 320M: Up to 5.76 Gbps
Power consumption	Optimized power modes (sleep states) reduce power consumption during periods of inactivity.
Security methods	WPA3 personal and enterprise including WPA2 transition mode
Authentication protocols	<ul style="list-style-type: none"> • 802.1X EAP-TLS • EAP-TTLS/MSCHAPv2 • PEAPv0 -MSCHAPv2 (EAP-SIM, EAP-AKA, EAP-AKA)
Encryption	<ul style="list-style-type: none"> • 128-bit AES-CCMP • 256-bit AES-GCMP
Product safety	<ul style="list-style-type: none"> • UL • C-UL • CB (IEC60950-1)
Management capabilities alerting	Support for Intel AMT
Government compliance	FIPS 140-3
Client utility	Intel PRO/Set wireless software v23 and later
Antenna diversity	Supported
Radio on/off	Supported

Table 27. Intel BE201 specifications (continued)

Description	Value
Roaming	Support seamless roaming between access points.
Wake on wireless	Supported
Wireless display	Native Miracast support by Windows 11
Wireless PAN standard	<ul style="list-style-type: none"> • Dual-Mode Bluetooth 5.4 • BLE
Bluetooth data rates	Up to 3 Mbps
Bluetooth operating frequency bands	2.4 GHz
Bluetooth profiles supported	Support for Microsoft Inbox Bluetooth profiles in Windows
Bluetooth data encryption	128-bit encryption
Bluetooth output power	Power Class 1
Temperature	Operating temperature (Adapter shield) 0°C to +80°C
Humidity	Non-operating 50% to 90% RH non-condensing (at temperatures of 25°C to 35°C)

 **NOTE:** Other names and brands may be claimed as the property of others.

WWAN module


Qualcomm Snapdragon X72 Global 5G Modem (DW5934e)

The following table lists specifications of the Qualcomm Snapdragon X72 Global 5G Modem (DW5934e) WWAN module.

Table 28. Qualcomm Snapdragon X72 Global 5G Modem (DW5934e) specifications

Description	Value
Form factor	M.2 3052 Key-B
Host interface	PCIe Gen3
Network standard	<ul style="list-style-type: none"> • NR FR1(Sub6) FDD/TDD • LTE FDD/TDD • WCDMA/HSPA+ • GPS/GLONASS/Galileo/Beidou
Transfer rate	<ul style="list-style-type: none"> • 5G NR: DL 4.14Gbps/ UL 900Mbps • LTE: DL 2.0Gbps (CAT20)/ UL 211Mbps (CAT18) • UMTS: DL DC-HSPA+ Rel8:42 Mbps / UL 5.76 Mbps
Operating frequency bands	<ul style="list-style-type: none"> • NR(n1, n2, n3, n5, n7, n8, n12, n13, n14, 18, n20, n25, n26, n28, n29, n30, n38, n40, n41, n48, n66, n67, n70, n71, n75, n76, n77, n78, n79, n91, n92, n93, n94) • LTE (B1, B2, B3, B4, B5, B7, B8, B12, B13, B14, B17, B18, B19, B20, B25, B26, B28, B29, B30, B32, B34, B38, B39, B40, B41, B42, B43, B46, B48, B66, B67, B68, B70, B71) • WCDMA/HSPA+ (1, 2, 4, 5, 8)
Power supply	DC 3.135V to 3.63V, typical 3.3V
SIM card	Supported through external SIM-card slot
eSIM with Dual SIM (DSSA)	Supported

Table 28. Qualcomm Snapdragon X72 Global 5G Modem (DW5934e) specifications (continued)



Description	Value
	 NOTE: The availability of eSIM functionality embedded on the module is dependent on the region and specific carrier requirements.
Antenna diversity	Supported
Radio On/Off	Supported
Wake on wireless	Supported in Morden Standby mode
Normal operating temperature	-30°C to +70°C
Extended operating temperature	-40°C to +85°C
Storage temperature	-40°C to +85°C
Antenna connector	<ul style="list-style-type: none"> • WWAN Main Antenna x 1 • WWAN Diversity Antenna x 1 • 4x4 MIMO Antenna x 2

GPU—Integrated

Intel Arc Graphics

The following table lists the Intel Arc Graphics specifications.

Table 29. Intel Arc Graphics specifications

Description	Value
Bus type	Integrated graphics  NOTE: Intel Arc Graphics uses the computers memory as video memory.
Memory type	Shared with system memory
Graphics level	Intel Core Ultra 5/7
Memory interface	64 Gbps, Unified Memory Architecture
Estimated maximum power consumption (TDP)	17.5 W, included in the CPU power
Overlay planes	Yes
Operating systems graphics/ video API support	DirectX 12 Ultimate, OpenGL 4.6
Maximum color depth	10 bits
Maximum vertical refresh rate	Up to 120 Hz  NOTE: The refresh rate depends on the resolution.
External ports	HDMI 2.1 port, DisplayPort over USB Type-C
Multiple display support	Up to 3 displays including laptop display

Video port and resolution matrix

The following table lists the Video port and resolution matrix of your Dell Pro 14 Premium PA14250.

Table 30. Video port and resolution matrix

Port type	DisplayPort over USB Type-C port	HDMI 2.1 port
Maximum resolution—single display	4096 x 2304 @ 60 Hz	4096 x 2160 @ 30 Hz
Maximum resolution—dual MST	4096 x 2304 @ 60 Hz, 1400 x 1050 @ 60 Hz or 2880 x 1800 @ 60 Hz, 2880 x 1800 @ 60 Hz	Not applicable
Maximum resolution—triple MST	4096 x 2304 @ 60 Hz, 1360 x 768 @ 60 Hz, 640 x 480 @ 60 Hz or 2304 x 1440 @ 60 Hz, 2304 x 1440 @ 60 Hz, 2304 x 1440 @ 60 Hz	Not applicable

Storage

M.2 2230 256 GB PCIe NVMe Gen4 x4 Class 35 Solid-State Drive

Table 31. M.2 2230 256 GB PCIe NVMe Gen4 x4 NVMe Class 35 Solid-State Drive

Features	Specifications
Capacity	256 GB
Dimensions	22.00 mm x 30.00 mm x 2.38 mm
Interface type and maximum speed	Gen 4 PCIe 64 Gb/s (Up to 4 lanes)
MTTF	1.4 M hours
Logical blocks	500,118,192
Power Source	
Power consumption (reference only)	<ul style="list-style-type: none">Idle : 5 mW (PS4)Active : 4 W
Environmental Operating Conditions (Non-Condensing)	
Temperature range	0°C to 70°C
Relative humidity range	10% to 90%
Non-op shock (@0.5 ms)	1500G
Environmental Non-Operating Conditions (Non-Condensing)	
Temperature range	-40°C to 70°C
Relative humidity range	5% to 95%

M.2 2230, 512 GB, TLC PCIe NVMe Gen 4, Class 35 SSD

The following table lists the M.2 2230, 512 GB SSD specifications.

Table 32. 512 GB SSD specifications

Description	Values
Capacity	512 GB
Height (approximate)	3.50 mm (0.13 in.)
Width (approximate)	22 mm (0.87 in.)
Depth (approximate)	30 mm (1.18 in.)
Interface type	PCIe Gen4
Speed (maximum)	64 Gb/s (up to 4 lanes)
MTTF	1.4M hours
Logical blocks	1,000,215,216
Power source	
Power consumption (reference only)	<ul style="list-style-type: none">• Idle: 5 mW (PS4)• Active: 4W
Environmental operating conditions (non-condensing)	
Temperature range	0°C to 70°C
Relative humidity range	10% to 90%
Op shock	1500G
Environmental non-operating conditions (non-condensing)	
Temperature range	-40°C to 70°C
Relative humidity range	5% to 95%

M.2 2230, 1 TB, TLC PCIe NVMe Gen 4, Class 35 SSD

The following table lists the M.2 2230, 1 TB SSD specifications.

Table 33. 1 TB SSD specifications

Description	Values
Capacity	1 TB
Height (approximate)	3.50 mm (0.13 in.)
Width (approximate)	22 mm (0.87 in.)
Depth (approximate)	30 mm (1.18 in.)
Interface type	PCIe Gen 4
Speed (maximum)	64 Gb/s (up to 4 lanes)
MTBF	1.4M hours
Logical blocks	2,000,409,264
Power source	
Power consumption (reference only)	<ul style="list-style-type: none">• Idle: 5 mW (PS4)• Active: 4W

Table 33. 1 TB SSD specifications (continued)

Description	Values
Environmental operating conditions (non-condensing)	
Temperature range	0°C to 70°C
Relative humidity range	10% to 90%
Op shock	1500G
Environmental non-operating conditions (non-condensing)	
Temperature range	-40°C to 70°C
Relative humidity range	5% to 95%

512 GB, M.2 2230, TLC PCIe NVMe Gen4, SED SSD (Opal certified)

The following table lists the M.2 2230, 1 TB SSD specifications.

Table 34. 512 SED SSD specifications

Description	Values
Capacity	512 GB
Height (approximate)	2.38 mm (0.09 in.)
Width (approximate)	22 mm (0.87 in.)
Depth (approximate)	30 mm (1.18 in.)
Interface type	PCIe Gen4
Speed (maximum)	64 Gb/s (up to four lanes)
MTBF	1.4M hours
Logical blocks	1,000,215,216
Power source	
Power consumption (reference only)	<ul style="list-style-type: none"> Idle: 5 mW (PS4) Active: 4 W
Environmental operating conditions (non-condensing)	
Temperature range	0°C to 70°C
Relative humidity range	10% to 90%
Op shock	1500G
Environmental nonoperating conditions (non-condensing)	
Temperature range	-40°C to 70°C
Relative humidity range	5% to 95%

M.2 2230, 2 TB, PCIe NVMe Gen 4 x4, Class 25 SSD

The following table lists the M.2 2230, 2 TB SSD specifications.

Table 35. 2 TB SSD specifications

Description	Values
Capacity	2 TB

Table 35. 2 TB SSD specifications (continued)

Description	Values
Height (approximate)	2.38 mm (0.09 in.)
Width (approximate)	22 mm (0.87 in.)
Depth (approximate)	30 mm (1.18 in.)
Interface type	PCIe Gen 4
Speed (maximum)	64 Gb/s (up to four lanes)
MTBF	1.4M hours
Logical blocks	4,000,797,360
Power source	
Power consumption (reference only)	<ul style="list-style-type: none"> Idle: 5 mW (PS4) Active: 4W
Environmental operating conditions (non-condensing)	
Temperature range	0°C to 70°C
Relative humidity range	10% to 90%
Op shock	1500G
Environmental nonoperating conditions (non-condensing)	
Temperature range	-40°C to 70°C
Relative humidity range	5% to 95%

Power adapter

The following table lists the power adapter specifications of your Dell Pro 14 Premium PA14250.

Table 36. Power adapter specifications

Description	Values		
Type	60W AC ultralight mini adapter, USB Type-C	65W AC adapter, USB Type-C	100W AC adapter, USB Type-C
Diameter (connector)	Not supported	Not supported	Not supported
Input voltage	100 VAC to 240 VAC	100 VAC to 240 VAC	100 VAC to 240 VAC
Input frequency	50 Hz to 60 Hz	50 Hz to 60 Hz	50 Hz to 60 Hz
Input current (maximum)	1.70 A	1.70 A	1.70 A
Output current (continuous)	<ul style="list-style-type: none"> 20 V/3 A 15 V/3 A 9 V/3 A 5 V/3 A 	<ul style="list-style-type: none"> 20 V/3.25 A 15 V/3 A 9 V/3 A 5 V/3 A 	<ul style="list-style-type: none"> 20 V/5 A 15 V/3 A 9 V/3 A 5 V/3 A
Rated output voltage	<ul style="list-style-type: none"> 20 VDC 15 VDC 9 VDC 5 VDC 	<ul style="list-style-type: none"> 20 VDC 15 VDC 9 VDC 5 VDC 	<ul style="list-style-type: none"> 20 VDC 15 VDC 9 VDC 5 VDC
Temperature range			

Table 36. Power adapter specifications (continued)

Description	Values		
Operating	0°C to 40°C (32°F to 104°F)	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)	-40°C to 70°C (-40°F to 158°F)
Compliance			
Erp Lot3 requirement	Yes	Yes	Yes
Energy Star 9.0 compliant	Yes	Yes	Yes

Accessories

The following table lists the supported accessories on your Dell Pro 14 Premium PA14250.

Table 37. Accessories

Accessories
Dell 14 Portable Monitor - P1424H
Dell 7-in-1 USB-C Multiport Adapter - DA310
Dell Collaboration 34 USB-C Hub Monitor - P3423WEB
Dell Collaboration Keyboard and Mouse - KM900
Dell EcoLoop Premier Slim Backpack 16 - CP7625S
Dell EcoLoop Pro Classic Briefcase 14 - CC5425C
Dell Mobile Adapter Speakerphone - MH3021P
Dell Premier Collaboration Keyboard - KB900
Dell Premier Rechargeable Mouse - MS900
Dell Premier Rechargeable Wireless Mouse (Graphite) - MS7421W
Dell Premier Wireless ANC Headset - WL7024
Dell Thunderbolt 4 Dock - WD22TB4
Dell UltraSharp 27 Thunderbolt Hub Monitor - U2724DE
Dell UltraSharp Webcam - WB7022

Security

Software security

The following table lists the software security details of your Dell Pro 14 Premium PA14250.

Table 38. Software security

Security options
Dell SafeGuard & Response: CrowdStrike, Secureworks
Dell SafeData: Absolute

Table 38. Software security (continued)

Security options
Dell SafeData: Netskope

Fingerprint reader

The following table lists the fingerprint reader specifications of your Dell Pro 14 Premium PA14250.

Table 39. Fingerprint reader specifications

Category	Details
Sensor technology	Trans-capacitive sensing
Sensor resolution	500 dpi
Sensor size	5.48 mm x 4.47 mm
Sensor pixel size	<ul style="list-style-type: none"> • X: 108 • Y: 88
Dell ControlVault support	No
Dell ControlVault 3.0 support	No
Anti-spoofing	Yes
Match on chip	Yes
FIPS 201 certified	No

Trusted Platform Module

The following table lists the Trusted Platform Module (TPM) of your Dell Pro 14 Premium PA14250.

Table 40. Trusted Platform Module (TPM)

TPM: ST/ST33 HTPH2X32AHD8
SPI interface
TPM 2.0
FIPs 140-2 certificate

System management features

Dell commercial systems come with a number of systems management options that are include by default for In-Band management with our Dell Client Command Suite. In-Band management meaning that the Operating System is functional and the device is connected to a network so that it can be managed. The Dell Client Command Suite of tools can be leveraged individually or with a systems management console like SCCM, LANDESK, KACE, etc.

We also offer Out-of-Band management as an option. Out-of-band management is when the system does not have a functional operating system or is turned off and you still want to be able to manage the system in that state.

Dell Client Command Suite for in-band systems management

Dell Client Command Suite is a free toolkit available for download for all Dell Pro laptops at the [Dell Support site](#), that automates and streamlines systems management tasks, saving time, money, and resources. It consists of the following modules that can be used independently, or with various systems management consoles such as SCCM.

Dell Client Command Suite's integration with VMware Workspace ONE Powered by AirWatch, now allows customers to manage their Dell client hardware from the cloud, using a single Workspace ONE console.

Dell Command | Deploy enables operating system (OS) deployment across all major OS deployment methodologies and provides numerous system-specific drivers that have been extracted and reduced to an OS-consumable state.

Dell Command | Configure is a graphical user interface (GUI) admin tool for configuring and deploying hardware settings in a pre-OS or post-OS environment, and it operates seamlessly with SCCM and Airwatch and can be self-integrated into LANDesk and KACE. Simply, this is all about the BIOS. Command | Configure allows you to remotely automate and configure over 150+ BIOS settings for a personalized user experience.

Dell Command | PowerShell Provider can do the same things as Command | Configure, but with a different method. PowerShell is a scripting language that allows customers to create a customized and dynamic configuration process.

Dell Command | Monitor is a Windows Management Instrumentation (WMI) agent that provides IT admins with an extensive inventory of the hardware and health-state data. Admins can also configure hardware remotely by using command line and scripting.

Dell Command | Update (end-user tool) is factory-installed and allows admins to individually manage and automatically present and install Dell updates to the BIOS, drivers, and software. Command | Update eliminates the time-consuming hunting and pecking process of update installation.

Dell Command | Update Catalog provides searchable metadata that allows the management console to retrieve the latest system-specific updates (driver, firmware or BIOS). The updates are then delivered seamlessly to end-users using the customer's systems management infrastructure that is consuming the catalog (like SCCM).

Dell Command | vPro Out of Band console extends hardware management to systems that are offline or have an unreachable OS (Dell exclusive features).

Dell Command | Integration Suite for System Center - This suite integrates all the key components of the Client Command Suite into Microsoft System Center Configuration Manager 2012 and Current Branch versions.

Out-of-band systems management

Intel Standard Manageability option **must be configured in our factory at the time of purchase, as it is NOT field upgradable**. It offers out-of-band management and DASH compliance ([Certification Registry](#)).

Dell Optimizer

Dell Optimizer is an AI-based software application that allows you to customize your computer settings for power and battery, collaboration touchpad, and more.

For Dell Pro 14 Premium PA14250 with Dell Optimizer, you can:

- Extend the battery life of your computer with Intelligent Battery Extender and Dynamic Charge.
- Tune the performance, power consumption, cooling, and fan noise with selectable thermal modes.
- Access Zoom and Microsoft Teams meeting controls with the Collaboration Touchpad.
- Access and secure your computer depending on your physical presence.
- Download and redeem the apps that are purchased with your computer.

For more information about configuring and using these features, search for *Dell Optimizer* at the [Dell Support Site](#).

ComfortView Plus

 **WARNING:** Prolonged exposure to blue light from the display may lead to long-term effects such as eye strain, eye fatigue, or damage to the eyes.

Blue light is a color in the light spectrum which has a short wavelength and high energy. Chronic exposure to blue light, particularly from digital sources may disrupt sleep patterns and cause long-term effects such as eye strain, eye fatigue, or damage to the eyes.

The display on this computer is designed to minimize blue light and complies with TÜV Rheinland's requirement for low blue light displays.

Low blue light mode is enabled at the factory, so no further configuration is necessary.

To reduce the risk of eye strain, it is also recommended that you:

- Position the display at a comfortable viewing distance between 20 and 28 inches (50 cm and 70 cm) from your eyes.
- Blink frequently to moisten your eyes, wet your eyes with water, or apply suitable eye drops.
- Take an extended break for 20 minutes every two hours.
- Look away from your display, and gaze at a distant object at 20 ft (609.60 cm) away for at least 20 seconds during each break.

Color, material, and finish

This section details the color, material, and finish (CMF) specifications of your Dell Pro 14 Premium PA14250.



Figure 8. Color, material, and finish


Table 41. CMF specifications

Cover	Specifications
A Cover (Top)	<ul style="list-style-type: none"> Painted, Cast AZ91D Mg-Al alloy <ul style="list-style-type: none"> Process: Cast + Paint + CNC Thickness <ul style="list-style-type: none"> 0.7-0.8 thickness over large areas with local thinning down to 0.55 mm for small areas. Localized areas can be thicker as necessary for structure. Part design to be optimized for structure with excess material removed for weight reduction
B Cover (Hinge up)	<ul style="list-style-type: none"> Bezel – 0.5 mm thick PC bezel <ul style="list-style-type: none"> Process: Die cut + UV Coating Glass - ETE Gorilla Glass Victus, Perimeter cut/ground; Ion exchange chemical hardened <ul style="list-style-type: none"> Anti-Reflective coating + Anti-Smudge coating on outer surface Black tinted window over ALS, Proximity Sensor, IR LEDs, and LED indicator light. Tinting % needs approval from Component vendors and Dell SDE SME. Below is a reference table of requirements:


Table 41. CMF specifications (continued)

Cover	Specifications												
	<p>Table 42. Black Tint Requirement</p> <table> <tr> <th>Device</th><th>Requirement</th></tr> <tr> <td>RGB Camera</td><td> $T \geq 88\% @ 450 \text{ nm} \sim 650 \text{ nm}$ $R = 8.35 \pm 3\% @ 450 \text{ nm} \sim 650 \text{ nm}$ (Clean, No printing) </td></tr> <tr> <td>IR LED</td><td> $T > 88\% @ 940 \text{ nm}$ $5\% \leq T \leq 12\% @ 550 \text{ nm}$ $R < 10\% @ 940 \text{ nm}$ (Backprint color: Transparent Gray) </td></tr> <tr> <td>IR Camera</td><td> $T > 88\% @ 940 \text{ nm}$ $5\% \leq T \leq 12\% @ 550 \text{ nm}$ $R < 10\% @ 940 \text{ nm}$ (Backprint color: Transparent Gray) </td></tr> <tr> <td>LED Indicator</td><td> $20 \pm 15 \text{ nits (System Level)}$ $T = 5 \sim 12\% @ 550 \text{ nm}$ (Backprint color: Transparent Blue) </td></tr> <tr> <td>ALS</td><td> Teikoku GLS-HF 21110 ink, no diffuser $T = 10 \pm 3\% @ 550 \text{ nm}$ $0\% < T < 10\% @ 800 \text{ nm} - @ 400 \text{ nm}$ (Backprint color: Transparent Gray) </td></tr> </table>	Device	Requirement	RGB Camera	$T \geq 88\% @ 450 \text{ nm} \sim 650 \text{ nm}$ $R = 8.35 \pm 3\% @ 450 \text{ nm} \sim 650 \text{ nm}$ (Clean, No printing)	IR LED	$T > 88\% @ 940 \text{ nm}$ $5\% \leq T \leq 12\% @ 550 \text{ nm}$ $R < 10\% @ 940 \text{ nm}$ (Backprint color: Transparent Gray)	IR Camera	$T > 88\% @ 940 \text{ nm}$ $5\% \leq T \leq 12\% @ 550 \text{ nm}$ $R < 10\% @ 940 \text{ nm}$ (Backprint color: Transparent Gray)	LED Indicator	$20 \pm 15 \text{ nits (System Level)}$ $T = 5 \sim 12\% @ 550 \text{ nm}$ (Backprint color: Transparent Blue)	ALS	Teikoku GLS-HF 21110 ink, no diffuser $T = 10 \pm 3\% @ 550 \text{ nm}$ $0\% < T < 10\% @ 800 \text{ nm} - @ 400 \text{ nm}$ (Backprint color: Transparent Gray)
Device	Requirement												
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LED Indicator	$20 \pm 15 \text{ nits (System Level)}$ $T = 5 \sim 12\% @ 550 \text{ nm}$ (Backprint color: Transparent Blue)												
ALS	Teikoku GLS-HF 21110 ink, no diffuser $T = 10 \pm 3\% @ 550 \text{ nm}$ $0\% < T < 10\% @ 800 \text{ nm} - @ 400 \text{ nm}$ (Backprint color: Transparent Gray)												
C Cover (Palmrest)	<ul style="list-style-type: none"> Painted, Cast AZ91D Mg-AL alloy, PPS +45% GF Toray A305M45-gray insert molded plastic windows <ul style="list-style-type: none"> Process: Cast + CNC + Paint Thickness <ul style="list-style-type: none"> 0.7-0.9 thickness over large areas with local thinning down to 0.53 mm for small areas. Localized areas can be thicker as necessary for structure. Part design to be optimized for structure with excess material removed for weight reduction There shall be a WLAN only version, and a WWAN version. 												
D Cover (Bottom)	<ul style="list-style-type: none"> Painted, cast AZ91D Mg-AL alloy; PPS +45% GF Toray A305M45-gray insert molded plastic windows <ul style="list-style-type: none"> Process: Cast + Paint + CNC There shall be a WLAN only version, and a WWAN version. 												

 **NOTE:** Titan Gray, Dull – Cool Gray 9C = RGB 117 120 123 HEX/HTML 75787B CMYK 30 22 17 57

 **NOTE:** Apollo –19-4205 TPG RGB 64 65 69 HEX/HTML 404145 CMYK NA

Keyboard shortcuts of Dell Pro 14 Premium PA14250

 **NOTE:** Keyboard characters may differ depending on the keyboard language configuration. Keys that are used for shortcuts remain the same across all language configurations.

Some keys on your keyboard have two symbols on them. These keys can be used to type alternate characters or to perform secondary functions. The symbol that is shown on the lower part of the key refers to the character that is typed out when the key is pressed. If you press shift and the key, the symbol that is shown on the upper part of the key is typed out. For example, if you press **2**, 2 is typed out; if you press **Shift + 2**, @ is typed out.

The keys F1-F12 at the top row of the keyboard are function keys for multimedia control, as indicated by the icon on the key. Press the function key to enable the task represented by the icon. For example, pressing F1 mutes the audio (see the table below).

However, if the function keys F1-F12 are needed for specific software applications, multimedia functionality can be disabled by pressing **Fn + Esc**. Later, multimedia control can be invoked by pressing **Fn** and the respective function key. For example, mute audio by pressing **Fn + F1**.


 **NOTE:** You can also define the primary behavior of the function keys (F1–F12) by changing **Function Key Behavior** in the BIOS setup program.

Table 43. Function key primary behavior

Function key	Primary behavior
F1	Mute or unmute audio
F2	Decrease volume
F3	Increase volume
F4	Microphone Mute
F5	KB Illumination/Backlight
F6	Decrease brightness
F7	Increase brightness
F8	Switch to external display
F9	Stealth mode
F10	Print screen
F11	Home
F12	End

The **Fn** key is also used with selected keys on the keyboard to invoke secondary functions.

Table 44. Secondary behavior

Function key	Secondary behavior
Fn + F1	Operating system and application-specific F1 behavior
Fn + F2	Operating system and application-specific F2 behavior
Fn + F3	Operating system and application-specific F3 behavior
Fn + F4	Operating system and application-specific F4 behavior

Table 44. Secondary behavior (continued)



Function key	Secondary behavior
Fn + F5	Operating system and application-specific F5 behavior
Fn + F6	Operating system and application-specific F6 behavior
Fn + F7	Operating system and application-specific F6 behavior
Fn + F8	Operating system and application-specific F8 behavior
Fn + F9	Operating system and application-specific F9 behavior
Fn + F10	Operating system and application-specific F10 behavior
Fn + F11	Operating system and application-specific F11 behavior
Fn + F12	Operating system and application-specific F12 behavior
Fn + Ctrl	Open the application menu
Fn + Esc	Toggle between multimedia and function key behavior
Fn + PgUp	Scroll up the document or page
Fn + PgDn	Scroll down the document or page
Fn + Home	Move to the beginning of the document
Fn + End	Move to the end of the document
Copilot	<p>Launch Copilot in Windows</p> <p>NOTE: If Copilot in Windows is not available on your computer, the Copilot key launches Recall. If both Recall and Copilot in Windows are not available on your computer, the Copilot key launches Windows Search. For more information about Copilot in Windows and Recall, search in the Knowledge Base Resource at the Dell Support Site.</p>

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 45. Self-help resources

Self-help resources	Resource location
Information about Dell products and services	Dell Site
My Dell app	
Tips	
Contact Support	In Windows search, type <code>Contact Support</code> , and press Enter.
Online help for operating system	Windows Support Site Linux Support Site
Access top solutions, diagnostics, drivers and downloads, and learn more about your computer through videos, manuals, and documents.	Your Dell computer is uniquely identified using 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 Dell Support Site . For more information about how to find the Service Tag for your computer, see Locate the Service Tag on your computer .
Dell knowledge base articles	<ol style="list-style-type: none"> 1. Go to Dell Support Site. 2. On the menu bar at the top of the Support page, select Support > Support Library. 3. In the Search field on the Support Library 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 [Contact Support at Dell Support Site](#).

 **NOTE:** Availability of the services may vary depending on the country or region, and product.

 **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.