

Dell Pro 16 Plus

PB16250

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.

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Views of Dell Pro 16 Plus

Right



1. microSD-card slot

Reads from and writes to the microSD-card.

2. nano SIM-card slot (optional)

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

NOTE: Availability of the SIM card slot depends on the region and configuration ordered.

3. Global headset jack

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

4. USB 3.2 Gen 1 port with PowerShare

Connect devices such as external storage devices and printers. It provides data transfer speeds up to 5 Gbps.

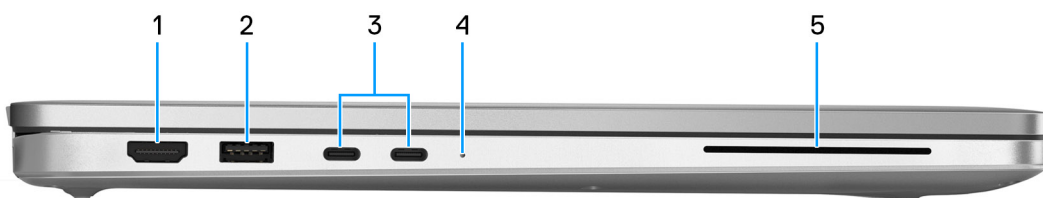
PowerShare enables you to charge your USB devices even when your computer is turned off.

NOTE: If your computer is turned off or in a hibernate 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.

5. Security-cable slot (wedge-shaped)

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

Left



1. HDMI 2.1 TMDs port

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

2. USB 3.2 Gen 1 port

Connect devices such as external storage devices and printers.

It provides data transfer speeds up to 5 Gbps.

3. Thunderbolt 4.0 with Power Delivery

Supports USB4, DisplayPort 2.1, Thunderbolt 4 and also enables you to connect to an external display using a display adapter. Provides data transfer rates of up to 40 Gbps for USB4 and Thunderbolt 4.

NOTE: You can connect a Dell Docking Station to one of 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.

4. Battery-status light

Battery-status light indicates the battery-charge status.

- White-Battery is charging.
- Solid yellow-Battery charge is low.
- Blinking yellow-Battery charge is critical.
- Off—Battery is fully charged.

5. Smart-card reader slot (optional)

Using smart card provides authentication in corporate networks.

Front



1. Left microphone

Provides digital sound input for audio recording and voice calls.

2. IR Sensor (optional)

Sensor detects the absence of the user and locks the computer for securing the computer and reducing power consumption.

3. Infrared emitter (optional)

The infrared emitter emits infrared light, which enables the infrared camera to sense and track motion.

4. Camera

A camera enables you to video chat, capture photos, and record videos.

5. Camera-status light

Turns on when the camera is in use.

6. Right microphone

Provides digital sound input for audio recording and voice calls.

7. Ambient-light sensor (optional)

The sensor detects the ambient light and automatically adjusts the display brightness.

Top



1. Power button with optional fingerprint reader

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

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

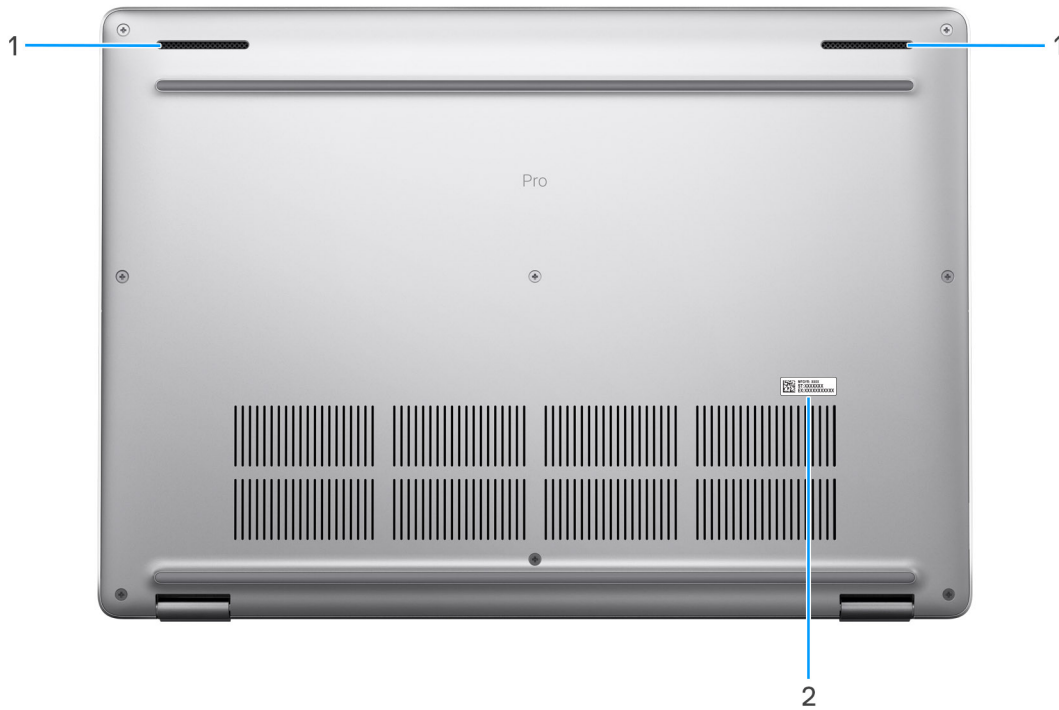
NOTE: You can customize the power-button behavior in Windows.

NOTE: The power-status light on the power button is available only on computers without the fingerprint reader. Computers that are shipped with the fingerprint reader that is integrated on the power button will not have the power-status light on the power button.

2. Touchpad

Move your finger on the touchpad to move the mouse pointer. Tap to left-click and two fingers tap to right-click.

Bottom



1. Speakers

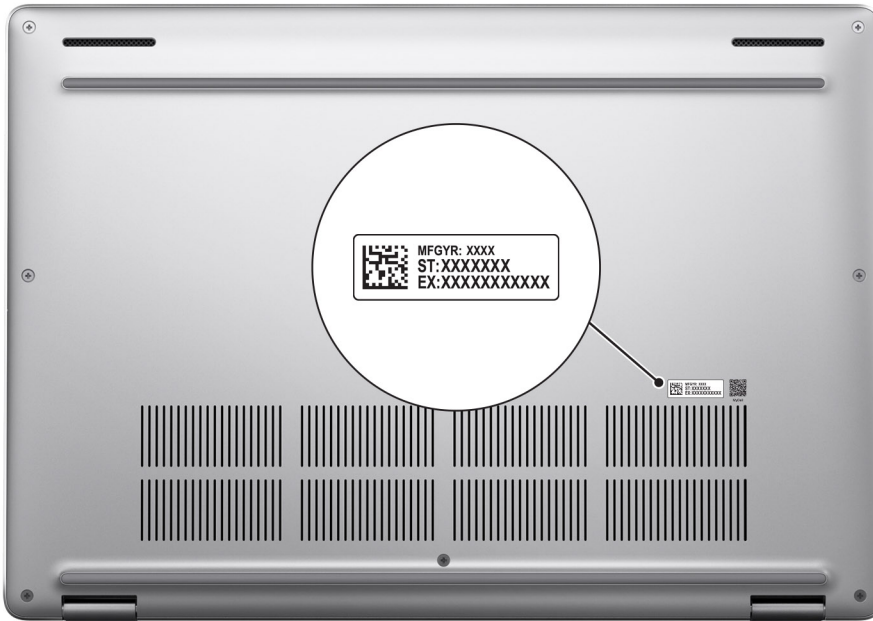
Provide audio output.

2. 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.

Service Tag

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.



Battery-charge status light

The following table lists the battery-charge status light of your Dell Pro 16 Plus.

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 16 Plus

Dimensions and weight

The following table lists the height, width, depth, and weight of your Dell Pro 16 Plus.

Table 2. Dimensions and weight

Description	Values
Height:	
Front height	0.78 in. (19.85 mm)
Rear height	0.81 in. (20.55 mm)
Maximum Height	0.84 in. (21.35 mm)
Width	14.09 in. (358.00 mm)
Depth	9.89 in. (251.40 mm)
Starting weight  NOTE: The weight of your computer depends on the configuration that is offered.	4.06 lb (1.84 kg) - <i>minimum</i>

Processor

The following table lists the details of the processors that are supported in your Dell Pro 16 Plus.

Table 3. Processor

Description	Option one	Option two	Option three	Option four	Option five
Processor type	Intel Core Ultra 5 226V	Intel Core Ultra 5 236V	Intel Core Ultra 5 238V	Intel Core Ultra 7 266V	Intel Core Ultra 7 268V
Processor wattage	24 W	24 W	24 W	24 W	24 W
Processor core count	8	8	8	8	8
Processor thread count	8	8	8	8	8
Processor speed	up to 4.50 GHz	4.70 GHz	up to 4.70 GHz	up to 5.00 GHz	up to 5.00 GHz
Processor cache	8 MB	8 MB	8 MB	12 MB	12 MB
Integrated graphics	Intel Arc Graphics	Intel Arc Graphics	Intel Arc Graphics	Intel Arc Graphics	Intel Arc Graphics

Chipset

The following table lists the details of the chipset that is supported in your Dell Pro 16 Plus.

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 Gen5

Operating system

Your Dell Pro 16 Plus supports the following operating systems:

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

i **NOTE:** Windows 10 22H2 is only for computers downgraded by end users from Windows 11. Support by Dell technologies is subjected to the Microsoft Windows 10 End of Support plan.

Memory

The following table lists the memory specifications of your Dell Pro 16 Plus.

Table 5. Memory specifications

Description	Values
Memory slots	Memory on Package i NOTE: The memory is integrated in the processor and is not upgradable.
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: LPDDR5X, 8533 MT/s• 32 GB: LPDDR5X, 8533 MT/s

External ports and slots

The following table lists the external ports and slots of your Dell Pro 16 Plus.

Table 6. External ports and slots

Description	Values
USB ports	<ul style="list-style-type: none"> Two Thunderbolt 4 port with DisplayPort Alt Mode/USB Type-C/USB4/Power Delivery NOTE: You can connect a Dell Docking Station to this port. For more information, search in the Knowledge Base Resource at Dell Support Site. One USB 3.2 Gen 1 port with PowerShare One USB 3.2 Gen 1 port
Audio port	Global headset jack
Video port(s)	One HDMI 2.1 TMDS port
Media-card reader	One smart card reader slot (optional)
Power-adaptor port	Supported through USB-C
Security-cable slot	One wedge-shaped security slot
SIM-card slot	Nano-SIM card slot (optional)
SD-card slot	One micro-SD card slot

Internal slots

The following table lists the internal slots of your Dell Pro 16 Plus.

Table 7. Internal slots

Description	Values
M.2	<ul style="list-style-type: none"> One M.2 2230 or M.2 2280 solid state drive slot One M.2 3052 for WWAN slot (optional) <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 16 Plus.

Table 8. Wireless module specifications

Description	Values
Model number	Intel Wi-Fi 7 BE201
Transfer rate	Up to 5760 Mbps
Frequency bands supported	2.40 GHz/5 GHz/6 GHz

Table 8. Wireless module specifications (continued)

Description	Values
Wireless standards	<ul style="list-style-type: none"> • WiFi 802.11a/b/g • Wi-Fi 4 (WiFi 802.11n) • Wi-Fi 5 (WiFi 802.11ac) • Wi-Fi 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

WWAN module


The following table lists the Wireless Wide Area Network (WWAN) module that is supported in your Dell Pro 16 Plus.

- 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	DW5933e MediaTek T700 Global 5G Modem
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/BDS/QZSS
Transfer data rate	SA: DL 4.67Gbps/ UL 1.25Gbps NSA: DL 3.74Gbps/ UL 835Mbps LTE: DL 1.6Gbps (CAT19)/ UL 211Mbps UMTS: DL384 kbps/ UL 384 kbps DL DC-HSPA+:42 Mbps (CAT24)/ UL 11.5 Mbps (CAT7)
Operating frequency bands	<ul style="list-style-type: none"> • LTE (1, 2, 3, 4, 5, 7, 8, 12, 13, 14, 17, 18, 19, 20, 25, 26, 28, 29, 30, 32, 34, 38, 39, 40, 41, 42, 43, 46, 66, 71) • NR (1, 2, 3, 5, 7, 8, 20, 25, 28, 38, 40, 41, 48, 66, 71, 77, 78, 79) • HSPA+ (1, 2, 4, 5, 8)
Power supply	DC 3.135 V to 4.4 V, Typical 3.3 V
SIM card	Supported through external SIM slot NOTE: The availability of eSIM functionality embedded on the module is dependent on the region and specific carrier requirements.
eSIM with dual SIM (DSSA)	Supported
Antenna diversity	Supported

Table 9. WWAN module specifications (continued)

Description	Values
Radio on/off	Supported
Wake On Wireless	Supported
Temperature	<ul style="list-style-type: none"> • Normal operating temperature: -10°C to + 55°C • Extended operating temperature: -40°C to +85°C • Storage temperature: -60°C to +100°C
Antenna connector	<ul style="list-style-type: none"> • WWAN TX0 & PRX Connector × 1 • WWAN DRX Combined GPS Connector × 1 • WWAN MIMO PRX Connector × 1 • WWAN TX1 & MIMO DRX Connector × 1 • 4x4 MIMO Antenna x2
 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 16 Plus.

Table 10. Audio specifications

Description	Values	
Audio controller	Cirrus Logic CS42L43	
Stereo conversion	Supported	
Internal audio interface	Soundwire Interface	
External audio interface	Global Headset Jack	
Number of speakers	Two	
Internal-speaker amplifier	Not supported	
External volume controls	Keyboard shortcut controls	
Speaker output:		
	Average	2 W
	Peak	2.5 W
Microphone	Dual-array microphones	

Storage

This section lists the storage options on your Dell Pro 16 Plus.

The availability of eSIM functionality that is embedded on the module depends the region and specific carrier requirements.

Table 11. Storage specifications

Storage type	Interface type	Capacity
M.2 2280 solid state drive, Self-encrypting drive, TLC	Gen 4 PCIe NVMe up to 64 Gbps	1 TB
M.2 2280 solid state drive, Self-encrypting drive, TLC	Gen 4 PCIe NVMe up to 64 Gbps	2 TB
M.2 2230 solid state drive, TLC	Gen 4 PCIe NVMe up to 64 Gbps	1 TB
M.2 2230 solid state drive, TLC	Gen 4 PCIe NVMe up to 64 Gbps	512 GB
M.2 2230 solid state drive, QLC	Gen 4 PCIe NVMe up to 64 Gbps	512 GB
M.2 2230 solid state drive, TLC	Gen 4 PCIe NVMe up to 64 Gbps	256 GB

Keyboard

The following table lists the keyboard specifications of your Dell Pro 16 Plus.

Table 12. Keyboard specifications

Description	Values
Keyboard type	<ul style="list-style-type: none"> Standard backlit keyboard Standard non-backlit keyboard
Keyboard layout	QWERTY
Number of keys	<ul style="list-style-type: none"> United States and Canada: 99 keys United Kingdom: 100 keys Japan: 103 keys
Keyboard size	X=19.05 mm key pitch Y=18.05 mm key pitch
Keyboard shortcuts	<p>Some keys on your keyboard have two symbols on them. These keys can be used to type alternate characters or to perform secondary functions. To type the alternate character, press Shift and the desired key. To perform secondary functions, press Fn and the desired key.</p> <p>NOTE: You can define the primary behavior of the function keys (F1–F12) changing Function Key Behavior in 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 16 Plus.

Table 13. Camera specifications

Description		Values
Number of cameras		One
Camera type		There are 3 camera options: <ul style="list-style-type: none"> • RGB camera • RGB + IR camera • MIPI + IR camera
Camera location		Front camera
Camera sensor type		CMOS sensor technology
Camera resolution:		
	Still image	<ul style="list-style-type: none"> • 2.07 megapixels • 5.20 megapixels
	Video	<ul style="list-style-type: none"> • 1920 x 1080 at 30 fps • 2560 x 1440 at 30 fps
Infrared camera resolution:		
	Still image	0.23 megapixels
	Video	640 x 360 at 15 fps
Diagonal viewing angle:		
	Camera	<ul style="list-style-type: none"> • 80.20 degrees • 91.20 degrees
	Infrared camera	86.60 degrees

Touchpad

The following table lists the touchpad specifications of your Dell Pro 16 Plus.

Table 14. Touchpad specifications

Description		Values
Touchpad resolution:		>=300 dpi
Touchpad dimensions:		
	Horizontal	125 mm (4.92 in.)
	Vertical	88 mm (3.46 in.)
Touchpad gestures		For more information about the touchpad gestures that are available on: <ul style="list-style-type: none"> • Windows, see the Microsoft Knowledge Base article at Microsoft Support Site. • Ubuntu, see Ubuntu Support Site.

Fingerprint reader (optional)

The following table lists the specifications of the optional fingerprint-reader of your Dell Pro 16 Plus.


Table 15. Fingerprint reader specifications

Description	Values
Sensor technology	Trans-capacitive sensing
Sensor resolution	500/363 dpi
Sensor pixel size	<ul style="list-style-type: none"> • X: 108 / 76 • Y: 88 / 100

Power adapter

The following table lists the power adapter specifications of your Dell Pro 16 Plus.

Table 16. Power adapter specifications

Description	Option one	Option two	Option three
Type	60 W adapter, USB-C	65 W adapter, USB-C	100 W adapter, USB-C
Power-adapter dimensions:			
Height	22 mm (0.87 in.)	28 mm (1.1 in.)	26.5 mm (1.04 in.)
Width	55 mm (2.16 in.)	51 mm (2.01 in.)	60 mm (2.36 in.)
Depth	66 mm (2.60 in.)	112 mm (4.41 in.)	122 mm (4.80 in.)
Input voltage	100 VAC–240 VAC	100 VAC–240 VAC	100 VAC–240 VAC
Input frequency	50 Hz x 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 (continuous) • 15 V/3 A (continuous) • 9.0 V/3 A (continuous) • 5.0 V/3 A (continuous) 	<ul style="list-style-type: none"> • 20 V/3.25 A (continuous) • 15 V/3 A (continuous) • 9 V/3 A (continuous) • 5 V/3 A (continuous) 	<ul style="list-style-type: none"> • 20 V/5 A (continuous) • 15 V/3 A (continuous) • 9.0 V/3 A (continuous) • 5.0 V/3 A (continuous)
Rated output voltage	20 VDC/15 VDC/9 VDC/5 VDC	20 VDC/15 VDC/9 VDC/5 VDC	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 35°C (32°F to 95°F)
Storage	-20°C to 70°C (-4°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 (for computers that are shipped with 3-cell, 45 Wh battery)

This section contains the power adapter requirements for the Dell Pro 16 Plus.

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:

Table 17. Power adapter requirements for Dell Pro 16 Plus

Description	Value
Power that is required from a power adapter to achieve optimal performance.	65 W
Power that is required to charge the computer at a slower speed. NOTE: A warning message may appear informing you about the use of a lower-powered adapter and slower charging speed.	Less than 60 W
Minimum power that is required from a power adapter to operate the computer and charge the battery. 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	<ol style="list-style-type: none"> 45 Whr battery needs a 65 W AC adapter to achieve Express Charge. <p>NOTE: Ensure that the computer is connected to a 65 W power adapter for this feature to be supported.</p> <p>NOTE: ExpressCharge mode must also be enabled in the BIOS Setup screen by selecting Power > Battery Configuration > ExpressCharge, then pressing Enter.</p>

Power adapter requirements (for computers that are shipped with 3-cell, 55 Wh battery)




This section contains the power adapter requirements for the Dell Pro 16 Plus.

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:

Table 18. Power adapter requirements for Dell Pro 16 Plus

Description	Value
Power that is required from a power adapter to achieve optimal performance.	100 W
Power that is required to charge the computer at a slower speed. NOTE: A warning message may appear informing you about the use of a lower-powered adapter and slower charging speed.	Less than 60 W
Minimum power that is required from a power adapter to operate the computer and charge the battery.	27 W

Table 18. Power adapter requirements for Dell Pro 16 Plus (continued)

Description	Value
 NOTE: A warning message appears informing you about the use of a lower-powered adapter and slower charging speed.	
USB Power Delivery (PD) fast charging	Supported
ExpressCharge mode	1. 55 Whr battery needs a 100 W AC adapter to achieve Express Charge.  NOTE: Ensure that the computer is connected to a 100 W power adapter for this feature to be supported.  NOTE: ExpressCharge mode must also be enabled in the BIOS Setup screen by selecting Power > Battery Configuration > ExpressCharge, then pressing Enter.

Battery

The following table lists the battery specifications of your Dell Pro 16 Plus.

Table 19. Battery specifications


Description	Option one	Option two	Option three	Option four	
Battery type	3-cell, 45 Wh, ExpressCharge, ExpressCharge Boost	3-cell, 55 Wh, ExpressCharge, ExpressCharge Boost	3-cell, 45 Wh, Long Life Cycle, ExpressCharge	3-cell, 55 Wh, Long Cycle Life, ExpressCharge	
Battery voltage	11.25 V	11.70 VDC	11.25 VDC	11.70 VDC	
Battery weight (minimum)	0.20 Kg (0.44 lb)	0.22 kg (0.48 lb)	0.20 kg (0.44 lb)	0.22 kg (0.48 lb)	
Battery dimensions:					
	Height	72.80 mm (2.83 in.)	72.80 mm (2.83 in.)	72.80 mm (2.83 in.)	72.80 mm (2.83 in.)
	Width	254.80 mm (10.03 in.)	254.80 mm (10.03 in.)	254.80 mm (10.03 in.)	254.80 mm (10.03 in.)
	Depth	6.30 mm (0.25 in.)	6.3 mm (0.25 in.)	6.3 mm (0.25 in.)	6.3 mm (0.25 in.)
Temperature range:					
	Operating	0°C to 45°C (32°F to 113°F)	0°C to 45°C (32°F to 113°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 65°C (-4°F to 149°F)	-20°C to 65°C (-4°F to 149°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)	Standard charge/ Predominately AC User Charge Method:	Standard charge/ Predominately AC User Charge Method:	Standard charge/ Predominately AC User Charge Method:	Standard charge/ Predominately AC User Charge Method:	
 NOTE: Control the charging time, duration,					

Table 19. Battery specifications (continued)

Description	Option one	Option two	Option three	Option four
<p>start and end time, and so on using the Dell Power Manager application. For more information about Dell Power Manager, search in the Knowledge Base Resource at Dell Support Site.</p>	<ul style="list-style-type: none"> ● 0°C to 15°C maximum allowable charge time from 0% to 100% RSOC is 4 hours ● 16°C to 45°C maximum allowable charge time from 0% to 100% RSOC is 3 hours <p>Express Charge Method :</p> <ul style="list-style-type: none"> ● 16°C to 45°C maximum allowable charge time from 0% to 80% RSOC is 1 hours ● 16°C to 45°C maximum allowable charge time from 0% to 100% RSOC is 2 hours <p>Express Charge Boost charge Method :</p> <ul style="list-style-type: none"> ● 16°C to 45°C maximum allowable charge time from 0% to 35% RSOC is 20 min 	<ul style="list-style-type: none"> ● 0°C to 15°C maximum allowable charge time from 0% to 100% RSOC is 4 hours ● 16°C to 45°C maximum allowable charge time from 0% to 100% RSOC is 3 hours <p>Express Charge Method :</p> <ul style="list-style-type: none"> ● 16°C to 45°C maximum allowable charge time from 0% to 80% RSOC is 1 hours ● 16°C to 45°C maximum allowable charge time from 0% to 100% RSOC is 2 hours <p>Express Charge Boost charge Method :</p> <ul style="list-style-type: none"> ● 16°C to 45°C maximum allowable charge time from 0% to 35% RSOC is 20 min 	<ul style="list-style-type: none"> ● 0°C to 15°C maximum allowable charge time from 0% to 100% RSOC is 4 hours ● 16°C to 45°C maximum allowable charge time from 0% to 100% RSOC is 3 hours <p>Express Charge Method :</p> <ul style="list-style-type: none"> ● 16°C to 45°C maximum allowable charge time from 0% to 80% RSOC is 1 hours ● 16°C to 45°C maximum allowable charge time from 0% to 100% RSOC is 2 hours 	<ul style="list-style-type: none"> ● 0°C to 15°C maximum allowable charge time from 0% to 100% RSOC is 4 hours ● 16°C to 45°C maximum allowable charge time from 0% to 100% RSOC is 3 hours <p>Express Charge Method :</p> <ul style="list-style-type: none"> ● 16°C to 45°C maximum allowable charge time from 0% to 80% RSOC is 1 hours ● 16°C to 45°C maximum allowable charge time from 0% to 100% RSOC is 2 hours
Coin-cell battery	No	No	No	No
<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 recommends that you charge the battery regularly for optimal power consumption. If your battery charge is completely depleted, connect the power adapter, turn on your computer, and then restart your computer to reduce the power consumption.</p>				

Power requirements (for computers shipped with 3-cell, 45 Wh battery)

i NOTE: The information in this section is applicable to the European Union (EU) countries.

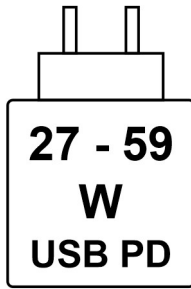


Figure 1. Pictogram for 45Wh battery

The power that is delivered by the charger must be between a minimum of 27 Watts that is required by the radio equipment, and a maximum of 59 Watts in order to achieve the maximum charging speed.

This computer supports USB Power Delivery (PD) fast charging.

Power requirements (for computers shipped with 3-cell, 55 Wh battery)

NOTE: The information in this section is applicable to the European Union (EU) countries.

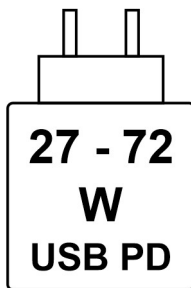


Figure 2. Pictogram for 55Wh battery

The power that is delivered by the charger must be between a minimum of 27 Watts that is required by the radio equipment, and a maximum of 72 Watts in order to achieve the maximum charging speed.

This computer supports USB Power Delivery (PD) fast charging.

Display

The following table lists the display specifications of your Dell Pro 16 Plus.

Table 20. Display specifications

Description	Option one	Option two	Option three
Display type	16-inch Full High Definition Plus (FHD+)	16-inch Full High Definition Plus(FHD+)	16-inch Quad High Definition Plus (QHD+)
Touch options	No	Yes	No
Display-panel technology	In Plane Switching (IPS), WLED	In Plane Switching (IPS), WLED	In Plane Switching (IPS), WLED
Display-panel dimensions (active area):			

Table 20. Display specifications (continued)

Description		Option one	Option two	Option three
	Height	215.42 mm (8.48 in.)	215.42 mm (8.48 in.)	215.42 mm (8.48 in.)
	Width	344.68 mm (13.57 in.)	344.68 mm (13.57 in.)	344.68 mm (13.57 in.)
	Diagonal	406.46 mm (16.00 in.)	406.46 mm (16.00 in.)	406.46 mm (16.00 in.)
Display-panel native resolution		1920 x 1200	1920 x 1200	2560 x 1600
Luminance (typical)		300 nits	300 nits	300 nits
Megapixels		2.3	2.3	4.1
Color gamut		45% NTSC	45 % NTSC	100% SRGB
Pixels Per Inch (PPI)		142 ppi	142 ppi	189 ppi
Contrast ratio (typical)		1000:1	1000:01	1000:01
Response time (maximum)		35 ms	35 ms	35 ms
Refresh rate		60 Hz	60 Hz	120 Hz
Horizontal view angle		+/- 80 degrees(min)	+/- 80 degrees(min)	+/- 80 degrees(min)
Vertical view angle		+/- 80 degrees(min)	+/- 80 degrees(min)	+/- 80 degrees(min)
Pixel pitch		0.18 mm x 0.18 mm	0.18 x 0.18 mm	0.13 x 0.13 mm
Power consumption (maximum)		4.45 W	5.6 W	4 W
Anti-glare vs glossy finish		Anti-glare	Anti-glare	Anti-glare

GPU—Integrated

The following table lists the specifications of the integrated Graphics Processing Unit (GPU) supported by your Dell Pro 16 Plus.

Table 21. GPU—Integrated

Controller	Memory size	Processor
Intel Arc Graphics	Shared system memory	Intel Core Ultra 5/7

Hardware security

The following table lists the hardware security of your Dell Pro 16 Plus.

Table 22. Hardware security

Hardware security
Trusted Platform Module (TPM) 2.0 discrete
FIPS 140-2 certification for TPM
TCG Certification for TPM (Trusted Computing Group)

Table 22. Hardware security (continued)

Hardware security
Finger Print Reader in Power Button available with ControlVault 3 Plus
ControlVault 3 Plus Advanced Authentication with FIPS 140-3 Level 3 Certification
Contacted Smart Card and ControlVault 3 Plus
Contactless Smart Card, NFC, and ControlVault 3 Plus
SED SSD NVMe, SSD, and hard drive (Opal and non-Opal) per SDL
FIPS 201 Full Scan FPR and ControlVault 3 Plus

Smart-card reader

Contactless smart-card reader

This section lists the contactless smart-card reader specifications of your Dell Pro 16 Plus. This module is only available in computers shipped with Smart-card readers.

Table 23. Contactless smart-card reader specifications

Title	Description	Dell ControlVault 3 Plus Contactless smart-card reader with NFC
Felica Card Support	Reader and software capable of supporting Felica contactless cards	Yes
Prox (Proximity) (125 kHz) Card support	Reader and software capable of supporting Prox /Proximity/125 kHz contactless cards	No
ISO 14443 Type A Card Support	Reader and software capable of supporting ISO 14443 Type A contactless cards	Yes
ISO 14443 Type B Card Support	Reader and software capable of supporting ISO 14443 Type B contactless cards	Yes
ISO/IEC 21481	Reader and software capable of supporting ISO/IEC 21481 compliant contactless cards and tokens	Yes
ISO/IEC 18092	Reader and software capable of supporting ISO/IEC 21481 compliant contactless cards and tokens	Yes
ISO 15693 Card Support	Reader and software capable of supporting ISO15693 contactless cards	Yes
NFC Tag Support	Supports reading and processing of NFC-compliant tag information	Yes
NFC Reader Mode	Support for NFC Forum Defined Reader mode	Yes
NFC Writer Mode	Support for NFC Forum Defined Writer mode	Yes
NFC Peer-to-Peer Mode	Support for NFC Forum Defined Peer to Peer mode	Yes
NFC Proximity OS Interface	Enumerates NFP (Near Field Proximity) device for operating system to use	Yes

Table 23. Contactless smart-card reader specifications (continued)

Title	Description	Dell ControlVault 3 Plus Contactless smart-card reader with NFC
PC/SC operating system interface	Personal Computer/Smart Card specification for integration of hardware readers into personal computer environments	Yes
CCID driver compliance	Common driver support for Integrated Circuit Card Interface Device for operating system level drivers	Yes
Dell ControlVault support	The device connects to Dell ControlVault for usage and processing	Yes


 **NOTE:** 125 KHz proximity cards are not supported.

Table 24. Contactless card types supported

Interface	Card type	Supported functionality
NFC Forum (Microsoft Proximity Device)	Type 1 tag	Read/Write NDEF
	Type 2 tag	Read/Write NDEF
	Type 3 tag	Read/Write NDEF
	Type 4 tag	Read/Write NDEF
	Type 5 tag	Read/Write NDEF
	P2P	Exchange NDEF
RFID (Microsoft Smartcard Device)	ISO14443A	Read UUID and APDU Exchange (ISO7816)
	ISO14443B	Read UUID and APDU Exchange (ISO7816)
	Sony FeliCa	Read UUID only
	Legacy iClass (ISO15693)	Read UUID only
	Mifare Classic	Read UUID only
	Low Frequency (125 KHz)	Not supported

Table 25. Supported cards

Manufacturer	Card
HID	jCOP readertest3 A card (14443a)
	1430 1L
	DESFire D8H
	DESFIRE 4K Standard - 1450NGGNN
	iClass 16K/16 - 2002PGGMN
	iClass SR 16K/16 - 2002HPGGMN
	iCLASS 2K tag
	iCLASS GP - 2003 PGGMN
	iClass Clamshell - 2080PMSMV
	iClass Prox 16K/16 - 2022BGGMNN
Mifare M1P 1430 NGGNN	

Table 25. Supported cards (continued)

Manufacturer	Card
	iclass Prox 2020BGGMNM
	DesFire D8P 1456CSGMN
	iCLASS MIFARE Px GM49Y 2623BNPGGBNAB
	iCLASS MIFARE Px 8M1L
	iClass SEOS JW 5006PGGMN
	Crescendo iCLASS Px G8H
	iCLASS Seos 1Y
	SEOS JMC4 J1Y 5806VNG1NNN4
	SEOS Key FOB 5266PNNA
	SEOS Clamshell 5656PMSAV
	SEOS + Prox 5106RGGMNN
	SEOS + DESFire 5906PNG1ANN7
	SEOS iClass 5006PGGMN7
	Seos Essential + Prox 551PPGGANN
	iCLASS 2K 2000PGGMN
	iCLASS 2K 3000PGGMN
	MIFARE DESFire 3700CPGGAN
	iCLASS DP
DESFire 1Y	
NXP/Mifare	Mifare DESFire 8K White PVC card
	Mifare Classic 1K White PVC card
	NXP Mifare Classic S50 ISO card
	Mifare DESFire 2K
	Mifare Plus S 2K/4K
	Mifare Plus X 4K
G&D	idOnDemand - SCE3.2 144K
	SCE6.0 FIPS 80K Dual + 1K Mifare
	SCE6.0 nonFIPS 80K Dual + 1K Mifare
	SCE6.0 FIPS 144K Dual + 1K Mifare
	SCE6.0 nonFIPS 144K Dual + 1K Mifare
	SCE7.0 FIPS 144K
Oberthur	idOnDemand - OCS5.2 80K
	ID-One Cosmo 64 RSA D V5.4 T = 0 card
	ID-One Cosmo 128K V5.5 card
Gemalto	TOP DL GX4 144K card
Sony	Felica RC-S962
	Felica RC-S965

Table 25. Supported cards (continued)

Manufacturer	Card
	Felica RC-S966
PIVKey	C910 PKI
NIST	PIV1
IDENTIV	PIV programmed cards
	uTrust
Transport cards	Oyster (London) MIFARE DESFire
	T-Money (Korea)
	Octopus Card (Hong Kong)
	SUICA (Japan)

Table 26. Qualified NFC tags

NFC tag	Supported
Tap and do - NFC Forum Type 1 Tag - Topaz 512 (BCM920203)	Yes
Tap and do - NFC Forum Type 1 Tag - Topaz 512 (BCM20203T512)	Yes
Tap and do - NFC Forum Type 1 Tag - Topaz (BCM20203T96)	Yes
Tap and do - NFC Forum Type 2 Tag - Mifare UltraLight	Yes
Tap and do - NFC Forum Type 2 Tag - Mifare UltraLight C	Yes
Tap and do - NFC Forum Type 2 Tag - NTAG203	Yes
Tap and do - NFC Forum Type 3 Tag - FeliCa Lite RC-S965	Yes
Tap and do - NFC Forum Type 3 Tag - FeliCa RC-S962	Yes
Tap and do - NFC Forum Type 4 Tag - Mifare DESFire EV1Card 2K	Yes
Tap and do - NFC Forum Type 4 Tag - Mifare DESFire EV1Card 4K	Yes
Tap and do - NFC Forum Type 4 Tag - Mifare DESFire EV1Card 8K	Yes
Tap and do - ISO 15693 - Tag-it Plus	Yes
HID I-code ISO card	Yes

Contacted smart-card reader

The following table lists the contacted smart-card reader specifications of your Dell Pro 16 Plus.

Table 27. Contacted smart-card reader specifications

Title	Description	Dell ControlVault 3 Plus Contacted smart-card reader
ISO 7816-3 Class A Card Support	Reader capable of reading 5 V powered smart card	Yes
ISO 7816-3 Class B Card Support	Reader capable of reading 3 V powered smart card	Yes

Table 27. Contacted smart-card reader specifications (continued)

Title	Description	Dell ControlVault 3 Plus Contacted smart-card reader
ISO 7816-3 Class C Card support	Reader capable of reading 1.8 V powered smart card	Yes
T = 0 support	Cards support character level transmission	Yes
T = 1 support	Cards support block level transmission	Yes
EMVCo Certified	Formally certified based on EMVCo smart card standards	Yes
PC/SC operating system interface	Personal Computer/Smart Card specification for integration of hardware readers into personal computer environments	Yes
CCID driver compliance	Common driver support for Integrated Circuit Card Interface Device for operating system level drivers	Yes
Windows Certified	Certified by the Windows Hardware Certification program	Yes
FIPS 201 (PIV/HSPD-12) Compliant	Device compliant with FIPS 201/PIV/HSPD-12 requirements	Yes
ISO 7816-1 Compliant	Specification for the physical characteristics of integrated circuit cards with contacts	Yes
ISO 7816-2 Compliant	Specification for the dimensions and location of the contacts	Yes
ISO 7816-3 Compliant	Specification for electrical interface and transmission protocols	Yes
ISO 7816-4 Compliant	Specification for organization, security, and commands for interchange	Yes
Dell ControlVault support	The device connects to Dell ControlVault for usage and processing	Yes

Operating and storage environment


This table lists the operating and storage specifications of your Dell Pro 16 Plus.

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

Table 28. 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)

Table 28. Computer environment (continued)

Description	Operating	Storage
 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 29. 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 29. 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


MediaTek T700 Global 5G Modem (DW5933e)

The following table lists specifications of the Qualcomm Snapdragon X62 Global 5G Modem (DW5933e) WWAN module.

Table 30. MediaTek T700 Global 5G Modem (DW5933e) 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/BDS/QZSS
Transfer rate	<ul style="list-style-type: none"> • SA: DL 4.67Gbps/ UL 1.25Gbps NSA: DL 3.74Gbps/ UL 835Mbps LTE: DL 1.6Gbps (CAT19)/ UL 211Mbps UMTS: DL384 kbps/ UL 384 kbps DL DC-HSPA+:42 Mbps (CAT24)/ UL 11.5 Mbps (CAT7)
Operating frequency bands	<ul style="list-style-type: none"> • LTE (1, 2, 3, 4, 5, 7, 8, 12, 13, 14, 17, 18, 19, 20, 25, 26, 28, 29, 30, 32, 34, 38, 39, 40, 41, 42, 43, 46, 66, 71) • NR (1, 2, 3, 5, 7, 8, 20, 25, 28, 38, 40, 41, 48, 66, 71, 77, 78, 79) • HSPA+ (1, 2, 4, 5, 8)
Power supply	DC 3.135 V to 4.4 V V, typical 3.3 V
SIM card	Supported through external SIM-card slot
eSIM with Dual SIM (DSSA)	Supported

Table 30. MediaTek T700 Global 5G Modem (DW5933e) 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
Normal operating temperature	10°C to + 55°C
Extended operating temperature	-40°C to +85°C
Storage temperature	-60°C to +100°C
Antenna connector	<ul style="list-style-type: none"> ● WWAN TX0 & PRX Connector x 1 ● WWAN DRX Combined GPS Connector x 1 ● WWAN MIMO PRX Connector x 1 ● WWAN TX1 & MIMO DRX Connector x 1 ● 4x4 MIMO Antenna x2

GPU—Integrated

Intel Arc Graphics

The following table lists the Intel Arc Graphics specifications.

Table 31. 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 7/5
Memory interface	64 Gbps, Unified Memory Architecture
Estimated maximum power consumption (TDP)	24 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 2.1 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 16 Plus.

Table 32. Video port and resolution matrix

Port type	USB Type-C Thunderbolt 4 with DisplayPort 2.1	HDMI 2.1 port
Maximum resolution—single display	7680 x 4320 at 60 Hz	4096 x 2160 at 60 Hz
Maximum resolution—dual MST	Two 4096 x 2304 at 60 Hz	Not applicable
Maximum resolution—triple MST	Three 4096 x 2304 at 60 Hz	Not applicable

Storage

2 TB, M.2 2280, Gen 4 PCIe NVMe, SED, SSD, TLC

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

Table 33. 2 TB SSD specifications

Description	Values
Capacity	2 TB
Height (approximate)	2.38 mm (0.09 in.)
Width (approximate)	22 mm (0.87 in.)
Depth (approximate)	80 mm (3.14 in.)
Interface type	PCIe Gen4
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: 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%

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

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

Table 34. 1 TB GB SSD specifications

Description	Values
Capacity	1 TB
Height (approximate)	2.38 mm (0.09 in.)
Width (approximate)	22 mm (0.87 in.)
Depth (approximate)	80 mm (3.14 in.)
Interface type	PCIe Gen4
Speed (maximum)	64 Gb/s (up to four 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: 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%

1 TB, M.2 2280, Gen 4 PCIe NVMe, SSD, TLC

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

Table 35. 1 TB SSD specifications

Description	Values
Capacity	1 TB
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	2,000,409,264
Power source	
Power consumption (reference only)	<ul style="list-style-type: none"> • Idle: 5 mW (PS4) • Active: 4 W

Table 35. 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 nonoperating conditions (non-condensing)	
Temperature range	-40°C to 70°C
Relative humidity range	5% to 95%

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

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

Table 36. 512 GB 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)
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: 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%

512 GB, M.2 2230, Gen 4 PCIe NVMe, SSD, QLC

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

Table 37. 512 GB SSD specifications

Description	Values
Capacity	512 GB

Table 37. 512 GB 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 Gen4
Speed (maximum)	64 Gb/s (up to four 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: 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%

256 GB, M.2 2230, Gen 4 PCIe NVMe, SSD, TLC

The following table lists the M.2 2230, 256 GB SSD specifications.

Table 38. 256 GB SSD specifications

Description	Values
Capacity	256 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)
MTTF	1.4M 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%
Op shock	1500G


Table 38. 256 GB SSD specifications (continued)

Description	Values
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 16 Plus.

Table 39. Power adapter specifications

Description	Option one	Option two	Option three
Type	60 W adapter, USB-C	65 W adapter, USB-C	100 W adapter, USB-C
Power-adapter dimensions:			
Height	22 mm (0.87 in.)	28 mm (1.1 in.)	26.5 mm (1.04 in.)
Width	55 mm (2.16 in.)	51 mm (2.01 in.)	60 mm (2.36 in.)
Depth	66 mm (2.60 in.)	112 mm (4.41 in.)	122 mm (4.80 in.)
Input voltage	100 VAC–240 VAC	100 VAC–240 VAC	100 VAC–240 VAC
Input frequency	50 Hz x 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 (continuous) • 15 V/3 A (continuous) • 9.0 V/3 A (continuous) • 5.0 V/3 A (continuous) 	<ul style="list-style-type: none"> • 20 V/3.25 A (continuous) • 15 V/3 A (continuous) • 9 V/3 A (continuous) • 5 V/3 A (continuous) 	<ul style="list-style-type: none"> • 20 V/5 A (continuous) • 15 V/3 A (continuous) • 9.0 V/3 A (continuous) • 5.0 V/3 A (continuous)
Rated output voltage	20 VDC/15 VDC/9 VDC/5 VDC	20 VDC/15 VDC/9 VDC/5 VDC	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 35°C (32°F to 95°F)
Storage	-20°C to 70°C (-4°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.			

Accessories

The following table lists the supported accessories on your Dell Pro 16 Plus.

Table 40. Accessories

Accessories
Audio:

Table 40. Accessories (continued)

Accessories
Dell Pro Wireless Headset - WL5022
Adapters: Dell 7-in-1 USB-C Multiport Adapter - DA310
Speakerphone: Dell Speakerphone - SP3022
Carrying case: Dell EcoLoop Pro Backpack - CP5723
Power bank: Dell Notebook Power Bank Plus û USB C, 65Wh - PW7018LC
Dock: Dell Thunderbolt 4 Dock - WD22TB4
Mouse: Dell Mobile Pro Wireless Mice - MS5120W
Keyboard: Dell Pro Wireless Keyboard and Mouse - KM5221W
Monitor: <ul style="list-style-type: none"> • Dell 27 USB-C HUB Monitor - P2723DE • Dell Collaboration 24 Monitor - C2423H
Webcam: Dell Pro Webcam - WB5023

Security

Software security

The following table lists the software security details of your Dell Pro 16 Plus.

Table 41. Software security

Security options
McAfee Generic Build 30-day Commercial
McAfee Generic Build 30-day Commercial JPN

Fingerprint reader

The following table lists the fingerprint reader specifications of your Dell Pro 16 Plus.

Table 42. Fingerprint reader specifications

Description	Value
Category	Goodix—GF5288WNC

Table 42. Fingerprint reader specifications (continued)

Description	Value
Sensor technology	Capacitive sensing
Sensor resolution	500 dpi
Sensor pixel size	108 x 88
Dell ControlVault support	Yes
Dell ControlVault 3.0 support	Yes
Anti-spoofing	Yes
Template storage	Dell ControlVault HW protected and encrypted
Match on chip	Yes
FIPS 201 certified	No

Dell ControlVault 3 Plus

The following table lists the Dell ControlVault 3 Plus specifications of your Dell Pro 16 Plus.

Table 43. Dell ControlVault 3 Plus specifications

Title	Description	Dell ControlVault 3 Plus
CPU technology	Not applicable	1 GHz ARM Cortex A7
RAM	Not applicable	2 MB
ROM	Not applicable	16 MB
Host Interface	Not applicable	USB 2.0
Fingerprint procession chip	Fingerprint processing occurs within the secure boundary of ControlVault	Yes
Windows WBF support	Support for Windows biometric framework when Fingerprint reader is attached	Yes
Windows Hello Enhanced Sign-in Security Support	Support for Windows Hello Enhanced Sign-in Security when Fingerprint Reader is attached	Yes
FIPS 140-3 level 3 certified	Device certified with FIPS 140-3 level 3 requirements	Yes

Trusted Platform Module

The following table lists the Trusted Platform Module (TPM) of your Dell Pro 16 Plus.

Table 44. Trusted Platform Module (TPM)

TPM: ST/ST33 HTPH2X32AHE4
SPI interface
TPM 2.0
FIPs 140-2 certificate

Thermal and acoustic improvements

The following table lists the thermal and acoustic improvements of your Dell Pro 16 Plus.

Table 45. Thermal and acoustic improvements

Feature	Description
New larger single heat pipe	Increase the heat capacity to improve thermal dissipation
Better system tuning/setting	Get higher performance and a good user experience
Pro-OS enhanced thermal setting (Dynamic PL1)	Optimized boot-up time to balance thermals at start-up
Linear fan control	Fan speed ramp more smoothly for better user experience, no more significant acoustic changing
DDT SSD setting	Protecting the SSD device in high temperature and worse cases to prevent blue screen of death (BSOD)
IEC 60529 ingress protection: IP-54	<ul style="list-style-type: none"> • Dust protected • Protected against dripping water
Better acoustic experience	Enhance acoustic to 0.6 sone during daily working conditions

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 for all Latitude computers, available for download 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 allows customers to manage their Dell client hardware from the cloud, using a single Workspace ONE console.

Dell Command | Deploy enables easy 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. Dell 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 tasks 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 computer-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 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: DASH Conformance Program](#)).

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.

SafeShutter

SafeShutter is a feature of the camera or the computer that automatically opens or closes the camera shutter by syncing to your video conferencing applications when you grant permission.

Dell Optimizer

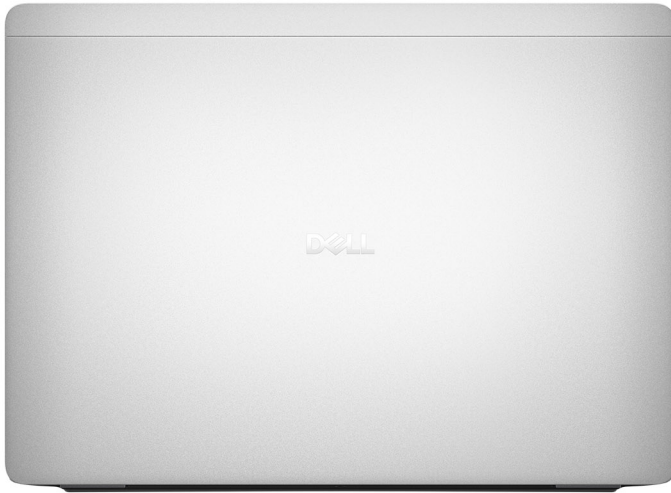
Dell Optimizer is an AI-based software application that allows you to customize system settings for power & battery, collaboration touchpad, and more. Depending on your system, with Dell Optimizer you can:

- Extend your computer's battery life and longevity with Intelligent Battery Extender and Dynamic Charge.
- Tune your computer's 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 based 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 the *Dell Optimizer User Guide* at [Dell Support Site](#).

Color, material, and finish

This section details the color, material, and finish (CMF) specifications of your Dell Pro 16 Plus.



New Platinum Silver Bblast

Table 46. CMF specifications

A Cover (Top)	Stamped Platinum Silver bblast <ul style="list-style-type: none"> ● PMS Cool Gray 7 C
B Cover (Hinge up)	<ul style="list-style-type: none"> ● ○ Dell Standard Black – Textured plastic Bezel ○ Fine Texture 17um ○ PMS Black 6 C
C Cover (Palmrest)	Stamped Platinum Silver bblast: <ul style="list-style-type: none"> ● PMS Cool Gray 7 C ● Mylat Platinum Silver touch pad: <ul style="list-style-type: none"> ○ PMS Cool Gray 7 C
D Cover (Bottom)	<ul style="list-style-type: none"> ● Recycled Resin + Painted: <ul style="list-style-type: none"> ○ Platinum Silver Satin Waterborne UV Monocoat ○ PMS Cool Gray 7 C

NOTE: Platinum Silver, 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 16 Plus

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 47. Function key primary behavior

Function key	Primary behavior
F1	Mute or unmute audio
F2	Decrease volume
F3	Increase volume
F4	Turn on or turn off keyboard backlight (optional). NOTE: Nonbacklight keyboards have the F10 function key without the backlight icon and do not support the toggle keyboard backlight function. NOTE: Toggle to cycle the keyboard backlight status through off, low-backlight, and high-backlight.
F5	Decrease brightness Play or Pause
F6	Increase brightness Play the next track or chapter
F8	Switch to external display
F9	
F10	Print Screen
F11	Home
F12	End

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

Table 48. 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

Table 48. Secondary behavior (continued)


Function key	Secondary behavior
Fn + F4	Operating system and application-specific F4 behavior
Fn + F5	Operating system and application-specific F5 behavior
Fn + F6	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 + PrtScr	Turn off or on wireless
Fn + B	Pause or Break
Fn + Insert	Enable sleep state
Fn + S	Toggle scroll lock
Fn + H	Toggle between power and battery-status light or hard drive activity light
Fn + R	Snip screen
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

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 49. Self-help resources

Self-help resources	Resource location
Information about Dell products and services	Dell Site
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 [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.