

Dell Precision 5550

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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Chassis overview

Topics:

- [Left](#)
- [Right](#)
- [Palmrest view](#)
- [Display view](#)
- [Bottom view](#)

Left



1. Wedge-shaped security slot
2. USB 3.2 Gen 2 Type-C port with Thunderbolt 3 (Power Delivery) (2)

Right



1. USB 3.2 Gen 2 Type-C Display port
2. SD-card slot
3. Universal Audio port

Palmrest view

- | | |
|--------------------|---|
| 1. Left speaker | 2. Touchpad |
| 3. Left-click area | 4. Right-click area |
| 5. Right speaker | 6. Power button with fingerprint reader |
| 7. Microphones (2) | |

Display view

- | | |
|------------------------|-------------------------|
| 1. Infrared emitter | 2. Ambient-light sensor |
| 3. RGB-infrared camera | 4. Camera-status light |
| 5. Infrared emitter | 6. Battery-status light |

Bottom view

1. Left woofer
2. Service Tag label
3. Right woofer


Specifications of Precision 5550

Topics:

- Dimensions and weight
- Processors
- Chipset
- Operating system
- Memory
- Ports and connectors
- Communications
- Audio
- Storage
- Media-card reader
- Keyboard
- Camera
- Touchpad
- Power adapter
- Battery
- Display
- Fingerprint reader
- Video
- Computer environment

Dimensions and weight

Table 1. Dimensions and weight

Description	Values
Height:	
Front	7.70 mm (0.30 in.)
Rear	11.65 mm (0.45 in.)
Width	344.40 mm (13.56 in.)
Depth	230.30 mm (9.07 in.)
Weight (maximum)	4.51 lb (2.05 Kg)
	 NOTE: The weight of your computer depends on the configuration ordered and the manufacturing variability.

Processors

Table 2. Processors

Description	Values					
Processors	10 th Generation Intel Core i5-10400H	10 th Generation Intel Core i7-10750H	10 th Generation Intel Core i7-10850H	10 th Generation Intel Core i7-10875H	10 th Generation Intel Core i9-10885H	10 th Generation Intel Xeon W-10855M
Wattage	45 W	45 W	45 W	45 W	45 W	45 W
Core count	4	6	6	8	8	6
Thread count	8	12	12	16	16	12
Speed	2.60 GHz to 4.60 GHz	2.60 GHz to 5.0 GHz	2.70 GHz to 5.1 GHz	2.30 GHz to 5.10 GHz	2.40 GHz to 5.30 GHz	2.40 GHz to 5.30 GHz
Cache	8 MB	12 MB	12 MB	16 MB	16 MB	12 MB
Integrated graphics	Intel UHD 630 Graphics	Intel UHD 630 Graphics	Intel UHD 630 Graphics	Intel UHD 630 Graphics	Intel UHD P630 Graphics	Intel UHD P630 Graphics

Chipset

Table 3. Chipset

Description	Values
Chipset	WM490
Processor	10 th Generation Intel Core i5/i7/i9 and Xeon W
DRAM bus width	64-bit
Flash EPROM	32 MB
PCIe bus	Up to Gen 3.0

Operating system

- Windows 10 Home (64-bit)
- Windows 10 Professional (64-bit)
- Windows 10 Pro for Workstations
- Windows 10 Pro Education
- Windows 10 IoT Enterprise (64-bit)
- Ubuntu 18.04 SP1
- Red Hat® Enterprise Linux® 8.2 (Certification Only)

Memory

Table 4. Memory specifications

Description	Values
Slots	Two-SODIMM slots

Table 4. Memory specifications (continued)

Description	Values
Type	Dual-channel DDR4, ECC
Speed	2667 MHz, 2933 MHz
Maximum memory	64 GB
Minimum memory	8 GB
Memory size per slot	8 GB, 16 GB, 32 GB
Configurations supported	<ul style="list-style-type: none"> • 8 GB, 1 x 8 GB, DDR4, 2933 MHz, dual-channel • 16 GB, 2 x 8 GB, DDR4, 2933 MHz, dual-channel • 32 GB, 2 x 16 GB, DDR4, 2933 MHz, dual-channel • 64 GB, 2 x 32 GB, DDR4, 2933 MHz, dual-channel • 8 GB, 1 x 8 GB, DDR4, ECC, 2933 MHz, dual-channel • 16 GB, 2 x 8 GB, DDR4, ECC 2933 MHz, dual-channel • 32 GB, 2 x 16 GB, DDR4, ECC 2933 MHz, dual-channel • 64 GB, 2 x 32 GB, DDR4, ECC 2933 MHz, dual-channel

Ports and connectors

Table 5. External ports and connectors



External:	
USB	<ul style="list-style-type: none"> • Two USB 3.2 Gen 2 Type-C port with Thunderbolt 3 (Power Delivery) • One USB 3.2 Gen 2 Type-C Display port
Audio	One Universal Audio port
Video	USB Type-C to DisplayPort adapter (sold separately)
Media card reader	One SD 3.0/4.0/6.0 card
Docking port	Not supported
Power adapter port	USB Type-C port  NOTE: Connect the power adaptor (USB Type-C) to only one of the three USB Type-C ports.
Security	One wedge-shaped security slot

Table 6. Internal ports and connectors

Internal:	
M.2	Two M.2 2230/2280 slot for solid-state drives  NOTE: To learn more about the features of different types of M.2 cards, see the knowledge base article SLN301626 .

Communications

Wireless module

Table 7. Wireless module specifications

Description	Values
Model number	Intel Wi-Fi 6 AX201
Transfer rate	Up to 2400 Mbps
Frequency bands supported	2.4 GHz/5 GHz
Wireless standards	<ul style="list-style-type: none">• Wi-Fi 802.11a/b/g• Wi-Fi 4 (WiFi 802.11n)• Wi-Fi 5 (WiFi 802.11ac)• Wi-Fi 6 (WiFi 802.11ax)
Encryption	<ul style="list-style-type: none">• 64-bit/128-bit WEP• AES-CCMP• TKIP
Bluetooth	Bluetooth 5.1

Audio

Table 8. Audio specifications

Description	Values	
Controller	Realtek ALC3281-CG	
Stereo conversion	Supported	
Internal interface	High definition audio interface	
External interface	Universal Audio Jack	
Speakers	2-way speaker	
Internal speaker amplifier	Supported	
External volume controls	Keyboard shortcut controls	
Speaker output:		
	Average	4 W
	Peak	5 W
Subwoofer output	Supported	
Microphone	Digital-array microphones	

Storage

Your computer supports the following configurations:

- Two M.2 2280 or M.2 2230 solid-state drive
- Supports RAID 0 and RAID 1

The primary drive of your computer varies with the storage configuration. For computers:

- With 2 M.2 drives SSD1 is the primary drive

Table 9. Storage specifications

Storage type	Interface type	Capacity
Up to two M.2 2230 or 2280 solid-state drive	PCIe Gen3.0x4 NVMe, up to 32 Gbps	Up to 2 TB

Media-card reader

Table 10. Media-card reader specifications

Description	Values
Type	One SD 3.0/4.0/6.0 card slot
Cards supported	<ul style="list-style-type: none"> • Secure Digital (SD) • Secure Digital High Capacity (SDHC) • Secure Digital eXtended Capacity (SDXC)

Keyboard

The following table lists the keyboard specifications of your Precision 5550.

Table 11. Keyboard specifications

Description	Values
Keyboard type	Backlit keyboard
Keyboard layout	QWERTY
Number of keys	<ul style="list-style-type: none"> • United States and Canada: 79 keys • United Kingdom: 80 keys • Japan: 83 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 BIOS setup program.</p> <p>Keyboard shortcuts</p>

Camera

Table 12. Camera specifications

Description		Values
Number of cameras		One
Type		RGB HD camera/Infrared camera
Location		Front camera
Sensor type		CMOS sensor technology
Resolution		
	Camera	
	Still image	0.92 megapixel
	Video	1280 x 720 (HD) at 30 fps
	Infrared camera	
	Still image	0.2 megapixel
	Video	576 x 360 at 15 fps
Diagonal viewing angle		
	Camera	78.5 degrees
	Infrared camera	78.5 degrees

Touchpad

Table 13. Touchpad specifications

Description		Values
Resolution:		
	Horizontal	4655
	Vertical	2731
Dimensions:		
	Horizontal	150 mm
	Vertical	90 mm

Touchpad gestures

For more information about touchpad gestures for Windows 10, see the Microsoft knowledge base article [4027871](https://support.microsoft.com/4027871) at support.microsoft.com.

Power adapter

Table 14. Power adapter specifications

Description		Values	
Type		90 W USB-C	130 W USB-C
Diameter		Type-C connector	Type-C connector
Input voltage		100 VAC-240 VAC	100 VAC-240 VAC
Input frequency		50 Hz-60 Hz	50 Hz-60 Hz
Input current (maximum)		1.5 A	1.8 A
Output current (continuous)		<ul style="list-style-type: none"> ● 20 V/4.5 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/6.5 A (Continuous) ● 5.0 V/1 A (Continuous)
Rated output voltage		20 VDC/15 VDC/9 VDC/5 VDC	20 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)
	Storage	-40 °C to 70 °C (-40 °F to 158 °F)	-40 °C to 70 °C (-40 °F to 158 °F)

Battery

Table 15. Battery specifications

Description		Values	
Type		3-cell lithium-ion 56 WHr	6-cell lithium-ion 86 WHr
Voltage		11.4 VDC	11.4 VDC
Weight (maximum)		0.255 kg	0.340 kg
Dimensions:			
	Height	7.56 mm	7.56 mm
	Width	77.7 mm	77.7 mm
	Depth	295.2 mm	295.2 mm
Temperature range:			
	Operating	Charge: 0 °C to 45 °C (32 °F to 113 °F) Discharge: 0 °C to 60 °C (32 °F to 149 °F)	Charge: 0 °C to 45 °C (32 °F to 113 °F) Discharge: 0 °C to 60 °C (32 °F to 149 °F)
	Storage	-20 °C to 60 °C (4 °F to 149 °F)	-20 °C to 60 °C (4 °F to 149 °F)
Operating time		Varies depending on operating conditions and can significantly reduce under certain power-intensive conditions.	Varies depending on operating conditions and can significantly reduce under certain power-intensive conditions.
Charging time (approximate)		2 hr (Express charge), 3 hr (Standard charge) (when the computer is off)	2 hr (Express charge), 3 hr (Standard charge) (when the computer is off)

Table 15. Battery specifications (continued)

Description	Values	
	<p>NOTE: Control the charging time, duration, start and end time, and so on using the Dell Power Manager application. For more information on the Dell Power Manager see www.dell.com/</p>	<p>NOTE: Control the charging time, duration, start and end time, and so on using the Dell Power Manager application. For more information on the Dell Power Manager see www.dell.com/</p>
Life span (approximate)	300 discharge/charge cycles	300 discharge/charge cycles
Coin-cell battery	Not supported	Not supported
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.

Display

Table 16. Display specifications

Description	Values	
Type	Full High Definition (FHD+), Non-touch	Ultra High Definition (UHD+), touch
Panel technology	Wide Viewing Angle (WVA)	Wide Viewing Angle (WVA)
Luminance (typical)	500 Nits	500 Nits
Dimensions (Active area):		
Height	336.38 mm	336.38 mm
Width	210.24 mm	210.24 mm
Diagonal	15.6"	15.6"
Native resolution	1920 x 1200	3840 x 2400
Megapixels	2.3 megapixels	9.2 megapixels
Color gamut	sRGB 100% min	Adobe 100% min; DCI-P3 94% typical, 90% minimum
Pixels per inch (PPI)	145	290
Contrast ratio (min)	1650:1	1600:1
Response time (max)	35 ms	35 ms
Refresh rate	60 Hz	60 Hz
Horizontal view angle	85 +/- degrees	85 +/- degrees
Vertical view angle	85 +/- degrees	85 +/- degrees
Pixel pitch	0.1752 mm	0.0876 mm

Table 16. Display specifications (continued)

Description	Values	
Power consumption (maximum)	4.41 W	10.4 W
Anti-glare vs glossy finish	Anti-Glare	Anti-Reflection
Touch options	No	Yes

Fingerprint reader

Table 17. Fingerprint reader specifications

Description	Values
Sensor technology	Capacitive
Sensor resolution	500 dpi
Sensor area	5.49 mm x 4.47 mm
Sensor pixel size	108 x 88

Video

Table 18. Discrete graphics specifications

Discrete graphics			
Controller	External display support	Memory size	Memory Type
NVIDIA Quadro T1000	N/A	4 GB	GDDR6
NVIDIA Quadro T2000	N/A	4 GB	GDDR6

Table 19. Integrated graphics specifications

Integrated graphics			
Controller	External display support	Memory size	Processor
Intel UHD Graphics 630	Type-C	Shared system memory	10th Generation Intel Core i5/i7/i9
Intel UHD Graphics P630	Type-C	Shared system memory	Intel Xeon

Computer environment

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

Table 20. 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)

Table 20. Computer environment (continued)

Description	Operating	Storage
Vibration (maximum)*	0.66 GRMS	1.30 GRMS
Shock (maximum)	110 G†	160 G†
Altitude (maximum)	-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)

* Measured using a random vibration spectrum that simulates user environment.

† Measured using a 2 ms half-sine pulse when the hard drive is in use.

Engineering specifications

This chapter lists out the specification of each and every component in a comprehensive format. Specific features/models/configurations/options discussed in the document may or may not be available.

Topics:

- [Communications](#)
- [Graphics options](#)
- [Supported hard drives](#)

Communications

Wireless communication

Intel AX201 160 MHz + Bluetooth 5.1

Table 21. Intel Wi-Fi 6 AX201 2x2 (Gig+) + Bluetooth 5.1 specifications

Feature	Values
Host interface	1216 form factor on-board module <ul style="list-style-type: none"> • Intel CNVio
Network standard	IEEE 802.11a/b/g/n/ac/ax, 160MHz channel use, MU-MIMO
Wi-Fi alliance certifications	<ul style="list-style-type: none"> • Wi-Fi Certified a/b/g/n/ac with wave 2 features • Designed to be Wi-Fi Certified ax (Wi-Fi 6) • WMM • WMM-PS • WPA • WPA2 • WPS2 • Protected Management Frames • Wi-Fi Direct (For Windows only)
Operating frequency bands	<ul style="list-style-type: none"> • 2.4 Ghz • 5 Ghz
Data rate	<ul style="list-style-type: none"> • 2.4 GHz 40M - Up to 574 Mbps • 5 GHz 80M - Up to 1.2 Gbps • 5 GHz 160M - Up to 2.4 Gbps
Power consumption	Optimized power modes (sleep states) reduce power consumption during periods of inactivity
Authentication	<ul style="list-style-type: none"> • WPA and WPA2 Personal and Enterprise • WPA3 (pending OS support)
Authentication protocols	<ul style="list-style-type: none"> • 802.1X EAP-TLS • EAP-TTLS/MSCHAPv2 • PEAPv0 -MSCHAPv2 (EAP-SIM, EAP-AKA, EAP-AKA)

Table 21. Intel Wi-Fi 6 AX201 2x2 (Gig+) + Bluetooth 5.1 specifications (continued)

Feature	Values
Encryption	<ul style="list-style-type: none"> ● 64-bit and 128-bit WEP ● TKIP ● 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	<ul style="list-style-type: none"> ● FIPS 140-2 ● FISMA
Client utility	Intel PRO/Set Wireless Software v21 and later
Antenna diversity	Supported
Radio On/Off	Supported
Roaming	Support seamless roaming between access points
Wake On wireless	Supported
Wireless display	Native Miracast support by Windows 10
Wireless PAN standard	Dual Mode Bluetooth 5.1, BLE
Bluetooth version	Bluetooth 5.1
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 10
Bluetooth data encryption	128-bit encryption
Bluetooth output power	Power class 1
Temperature	<ul style="list-style-type: none"> ● Operating temperature 0°C to + 50°C (Full performance at shield temperatures up to 80°C) ● Storage temperature of -40°C to +70°C
Humidity	Up to 90% RH non-condensing (at temperatures of 25°C to 35°C)

Graphics options

Intel UHD graphics

Table 22. Intel UHD graphics

Feature	Specifications
Bus type	Integrated
Memory type	DDR4
Memory interface	N/A (unified memory architecture)
Graphics level	i5: GT2 (UHD)
Estimated Maximum Power Consumption (TDP)	45 W—included in the CPU power
Maximum color depth	24 bits
Maximum vertical refresh rate	Up to 85 Hz depending on resolution

NVIDIA graphic options

This topic lists the graphic specifications.

Table 23. Graphics specification

Graphics controller	NVIDIA Quadro T1000	NVIDIA Quadro T2000
Graphics memory	GDDR6	GDDR6
Bus type	PCIe x 16 Gen3	PCIe x 16 Gen3
Memory interface	128-bit	128-bit
Clock speeds	<ul style="list-style-type: none"> 1395/1530 MHz graphics core (min at P0) 3004 MHz memory 	<ul style="list-style-type: none"> 1200/1530 MHz graphics core (min at P0) 3004 MHz memory
Estimated maximum power consumption	50 W	40 W
Display support	VGA/LVDS/eDP/DVI/DisplayPort/HDMI	VGA/LVDS/eDP/DVI/DisplayPort/HDMI
Maximum Color Depth	Up to 10 bit/color	Up to 10 bit/color
Maximum Vertical Refresh Rate	<ul style="list-style-type: none"> Up to 395Hz at 1920 x 1080 Up to 118Hz at 3840 x 2160 	<ul style="list-style-type: none"> Up to 395Hz at 1920 x 1080 Up to 118Hz at 3840 x 2160
Operating Systems Graphics/ Video API Support	OpenGL 4.6 DirectX 12.1 OpenCL 1.2 OpenGL 4.6 Shader Model 6.4 Vulkan	OpenGL 4.6 DirectX 12.1 OpenCL 1.2 OpenGL 4.6 Shader Model 6.4 Vulkan
Supported Resolutions and Max Refresh Rates (Hz) Analog and/or Digital)	<ul style="list-style-type: none"> Digital: 5820 x 2880 at 60Hz (dual DP) Analog: 1920 x 1200 at 60Hz 	<ul style="list-style-type: none"> Digital: 5820 x 2880 at 60Hz (dual DP) Analog: 1920 x 1200 at 60Hz

Table 23. Graphics specification (continued)

Number of displays supported	Up to 3	Up to 3
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Supported hard drives

M.2 2230 256 GB Gen 3 PCIe x4 NVMe Class 35 Solid-State Drive

Table 24. M.2 2230 256 GB Gen 3 PCIe 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 3 PCIe 32 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 : 3.5 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 2280 256 GB Gen 3 PCIe x4 NVMe Class 40 Solid-State Drive

Table 25. M.2 2280 256 GB Gen 3 PCIe x4 NVMe Class 40 Solid-State Drive

Features	Specifications
Capacity	256 GB
Dimensions	22.00 mm x 80.00 mm x 2.38 mm
Interface type and maximum speed	Gen 3 PCIe 32 Gb/s
MTTF	1.4 M hours
Logical blocks	500,118,192
Power Source	

Table 25. M.2 2280 256 GB Gen 3 PCIe x4 NVMe Class 40 Solid-State Drive (continued)

Features	Specifications
Power consumption (reference only)	<ul style="list-style-type: none"> • Idle : 5 mW (PS4) • Active : 4.5 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 2280 512 GB Gen 3 PCIe x4 NVMe Class 40 Solid-State Drive

Table 26. M.2 2280 512 GB Gen 3 PCIe x4 NVMe Class 40 Solid-State Drive

Features	Specifications
Capacity	512 GB
Dimensions	22.00 mm x 80.00 mm x 2.38 mm
Interface type and maximum speed	Gen 3 PCIe 32 Gb/s
MTTF	1.4 M hours
Logical blocks	1000,215,216
Power Source	
Power consumption (reference only)	<ul style="list-style-type: none"> • Idle : 5 mW (PS4) • Active : 4.5 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 2280 1 TB Gen 3 PCIe x4 NVMe Class 40 Solid-State Drive

Table 27. M.2 2280 1 TB Gen 3 PCIe x4 NVMe Class 40 Solid-State Drive

Features	Specifications
Capacity	1 TB
Dimensions	22.00 mm x 80.00 mm x 3.73 mm
Interface type and maximum speed	Gen 3 PCIe 32 Gb/s
MTTF	1.4 M hours
Logical blocks	2000,409,264
Power Source	
Power consumption (reference only)	<ul style="list-style-type: none"> • Idle : 5 mW (PS4) • Active : 4.5 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 2280 2 TB Gen 3 PCIe x4 NVMe Class 40 Solid-State Drive

Table 28. M.2 2280 2 TB Gen 3 PCIe x4 NVMe Class 40 Solid-State Drive

Capacity	2 TB
Dimensions	22.00 mm x 80.00 mm x 3.73 mm
Interface type and maximum speed	Gen 3 PCIe 32 Gb/s
MTTF	1.4 M hours
Logical blocks	4000,797,360
Power Source	
Power consumption (reference only)	<ul style="list-style-type: none"> • Idle : 5 mW (PS4) • Active : 4.5 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

Table 28. M.2 2280 2 TB Gen 3 PCIe x4 NVMe Class 40 Solid-State Drive (continued)

Environmental Non-Operating Conditions (Non-Condensing)	
Temperature range	-40°C to 70°C
Relative humidity range	5% to 95%

M.2 2280 512 GB Gen 3 PCIe x4 NVMe Opal Self-Encrypting Class 40 Solid-State Drive

Table 29. M.2 2280 512 GB Gen 3 PCIe x4 NVMe Opal Self-Encrypting Class 40 Solid-State Drive

Features	Specifications
Capacity	512 GB
Dimensions	22.00 mm x 80.00 mm x 2.38 mm
Interface type and maximum speed	Gen 3 PCIe 32 Gb/s
MTTF	1.4 M hours
Logical blocks	1000,215,216
Power Source	
Power consumption (reference only)	<ul style="list-style-type: none"> ● Idle : 5 mW (PS4) ● Active : 4.5 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 2280 1 TB Gen 3 PCIe x4 NVMe Opal Self-Encrypting Class 40 Solid-State Drive

Table 30. M.2 2280 1 TB Gen 3 PCIe x4 NVMe Opal Self-Encrypting Class 40 Solid-State Drive

Capacity	1 TB
Dimensions	22.00 mm x 80.00 mm x 2.38 mm
Interface type and maximum speed	Gen 3 PCIe 32 Gb/s (Up to 4 lanes)
MTTF	1.4 M hours

Table 30. M.2 2280 1 TB Gen 3 PCIe x4 NVMe Opal Self-Encrypting Class 40 Solid-State Drive (continued)

Logical blocks	2000,409,264
Power Source	
Power consumption (reference only)	<ul style="list-style-type: none"> • Idle : 5 mW (PS4) • Active : 4.5 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 2280 512 GB Gen3 PCIe x4 NVMe Class 50 SSD

Table 31. M.2 2280 512 GB Gen3 PCIe x4 NVMe Class 50 SSD

Capacity (GB)	512 GB
Dimensions (mm) (W x D x H)	22 x 80 x 2.38
Interface type and Maximum speed	PCIe Gen3 32 Gb/s
MTBF	1.4M hours
Logical Blocks	1,000,215,216
Power Source:	
Power Consumption (reference only)	Idle 5 mW(PS4 - L1.2), Active 5 W
Environmental Operating Conditions (Non-Condensing):	
Temperature Range	0°C to 70°C
Relative Humidity Range	10 to 90%
Non-Op Shock (@2 ms)	1,500G
Environmental Non-Operating Conditions (Non-Condensing):	
Temperature Range	-40°C to 70°C
Relative Humidity Range	5% to 95%

M.2 2280 1 TB Gen3 PCIe x4 NVMe Class 50 SSD

Table 32. M.2 2280 1 TB Gen3 PCIe x4 NVMe Class 50 SSD

Capacity (GB)	1 TB
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Table 32. M.2 2280 1 TB Gen3 PCIe x4 NVMe Class 50 SSD (continued)

Dimensions (W x D x H)	Approximately (22.00 in. x 80.00 in. x 2.38 in.)
Interface type and maximum speed	PCIe Gen3 32 Gb/s
MTBF	1.4M hours
Logical blocks	2,000,409,264
Power source	
Power consumption (reference only)	Idle 5 mW(PS4 - L1.2), Active 5 W
Environmental Operating Conditions (Non-Condensing)	
Temperature range	0°C to 70°C
Relative humidity range	10% to 90%
Op shock (@ 2ms)	1000 G
Environmental Non-Operating Conditions (Non-Condensing)	
Temperature range	-40°C to 70°C
Relative humidity range	5% to 95%

Keyboard shortcuts of Precision 5550

NOTE: Keyboard characters may differ depending on the keyboard language configuration. Keys 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 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 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 multi-media control, as indicated by the icon at the bottom of the key. Press the function key to invoke the task represented by the icon. For example, pressing **F1** mutes the audio (refer to the table below).

However, if the function keys **F1-F12** are needed for specific software applications, multi-media functionality can be disabled by pressing **Fn + esc**. Subsequently, 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 BIOS setup program.

Table 33. List of keyboard shortcuts

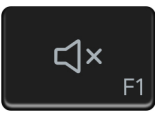
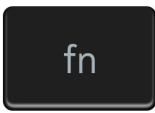
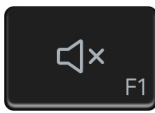
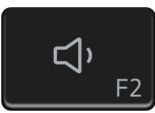
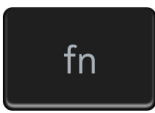
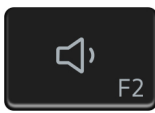
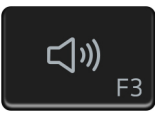
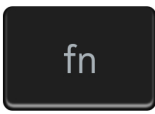
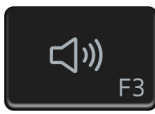
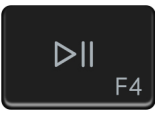
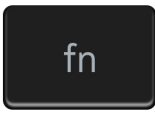
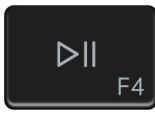

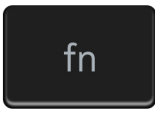
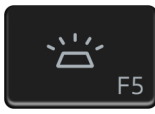
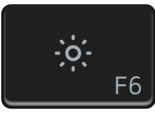
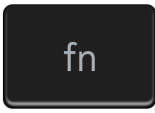
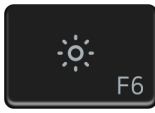
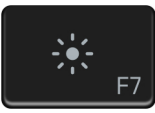
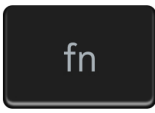
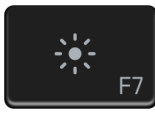


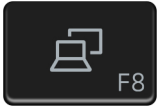






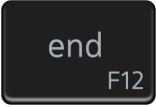
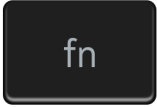
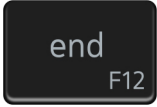







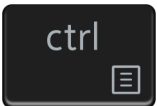

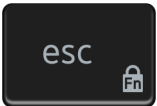
Function key	Redefined key (for multimedia control)	Behavior
	 + 	Mute audio
	 + 	Decrease volume
	 + 	Increase volume
	 + 	Play/Pause
	 + 	Toggle keyboard backlight
	 + 	Decrease brightness
	 + 	Increase brightness

Table 33. List of keyboard shortcuts (continued)

Function key	Redefined key (for multimedia control)	Behavior
	 + 	Switch to external display
	 + 	Print screen
	 + 	Home
	 + 	End

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

Table 34. List of keyboard shortcuts



Function key	Behavior
 + 	Pause/Break
 + 	Toggle scroll lock
 + 	System request
 + 	Open application menu
 + 	Toggle Fn-key lock

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 35. Self-help resources

Self-help resources	Resource location
Information about Dell products and services	www.dell.com
My Dell	
Tips	
Contact Support	In Windows search, type Contact Support , and press Enter.
Online help for operating system	www.dell.com/support/windows www.dell.com/support/linux
Troubleshooting information, user manuals, setup instructions, product specifications, technical help blogs, drivers, software updates, and so on.	www.dell.com/support
Dell knowledge base articles for a variety of computer concerns.	<ol style="list-style-type: none"> 1. Go to https://www.dell.com/support/home/?app=knowledgebase. 2. Type the subject or keyword in the Search box. 3. Click Search to retrieve the related articles.
Learn and know the following information about your product: <ul style="list-style-type: none"> • Product specifications • Operating system • Setting up and using your product • Data backup • Troubleshooting and diagnostics • Factory and system restore • BIOS information 	See <i>Me and My Dell</i> at www.dell.com/support/manuals . To locate the <i>Me and My Dell</i> relevant to your product, identify your product through one of the following: <ul style="list-style-type: none"> • Select Detect Product. • Locate your product through the drop-down menu under View Products. • Enter the Service Tag number or Product ID in the search bar.

Contacting Dell

To contact Dell for sales, technical support, or customer service issues, see www.dell.com/contactdell.

 **NOTE:** Availability varies by country and product, and some services may not be available in your country.

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