

Dell Precision 5750

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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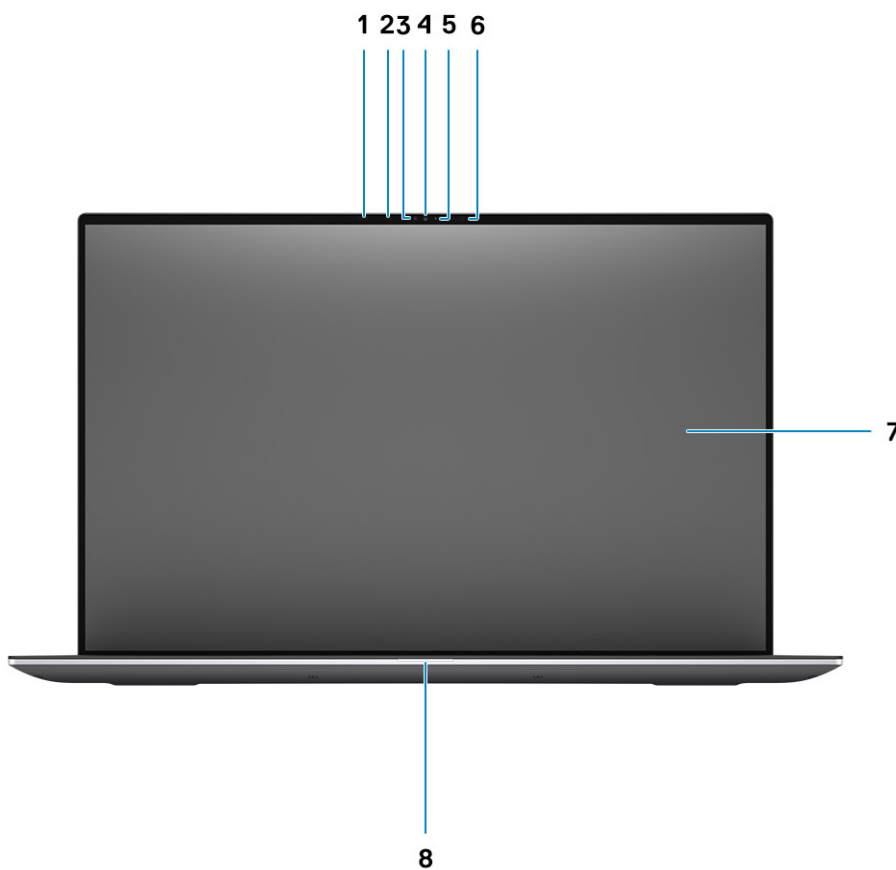
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Chassis overview

Topics:

- Display view
- Left view
- Right view
- Palmrest view
- Bottom view
- Keyboard shortcuts

Display view



- | | |
|-------------------------|-----------------------|
| 1. Proximity sensor | 2. IR LED |
| 3. Ambient light sensor | 4. RGB + IR camera |
| 5. LED indicator | 6. IR LED |
| 7. LCD panel | 8. LED activity light |

Left view



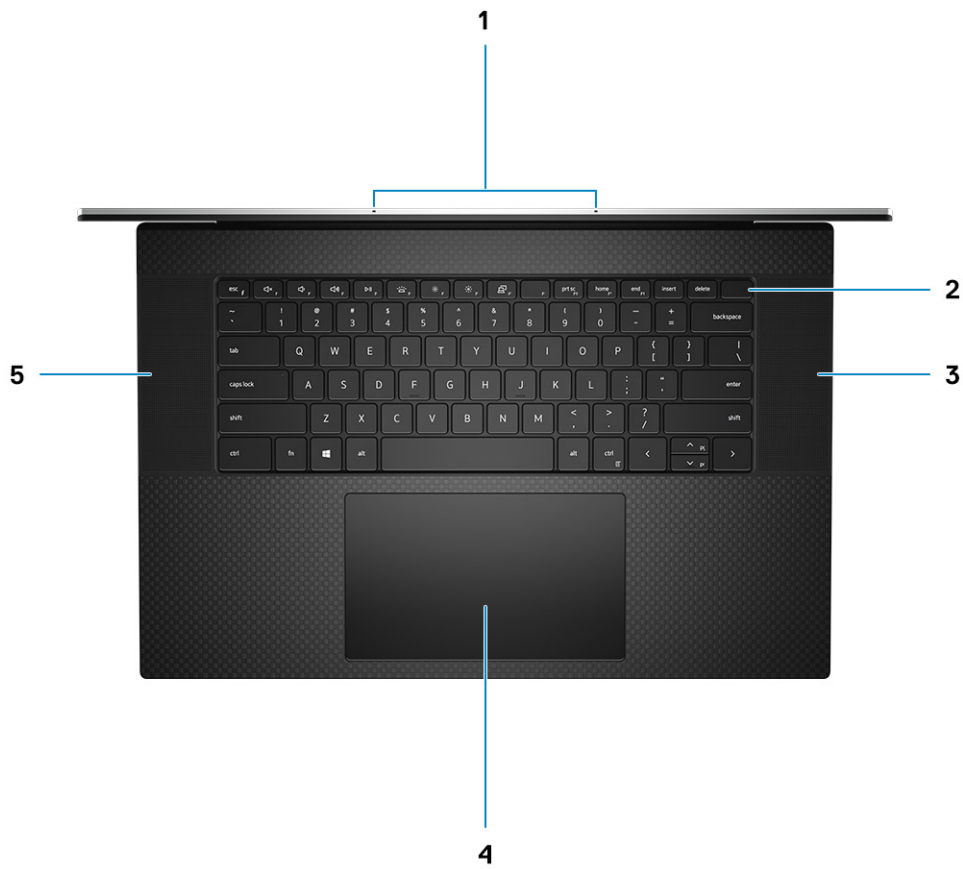
1. Wedge-shaped lock slot
2. USB Type-C 3.2 Gen 2 Charging port with Thunderbolt3 /DisplayPort 1.4
3. USB Type-C 3.2 Gen 2 Charging port with Thunderbolt3 /DisplayPort 1.4

Right view



- | | |
|---|---|
| 1. USB Type-C 3.2 Gen 2 Charging port with Thunderbolt3 / DisplayPort 1.4 | 2. USB Type-C 3.2 Gen 2 Charging port with Thunderbolt3 / DisplayPort 1.4 |
| 3. SD-card reader | 4. Universal Audio Jack |

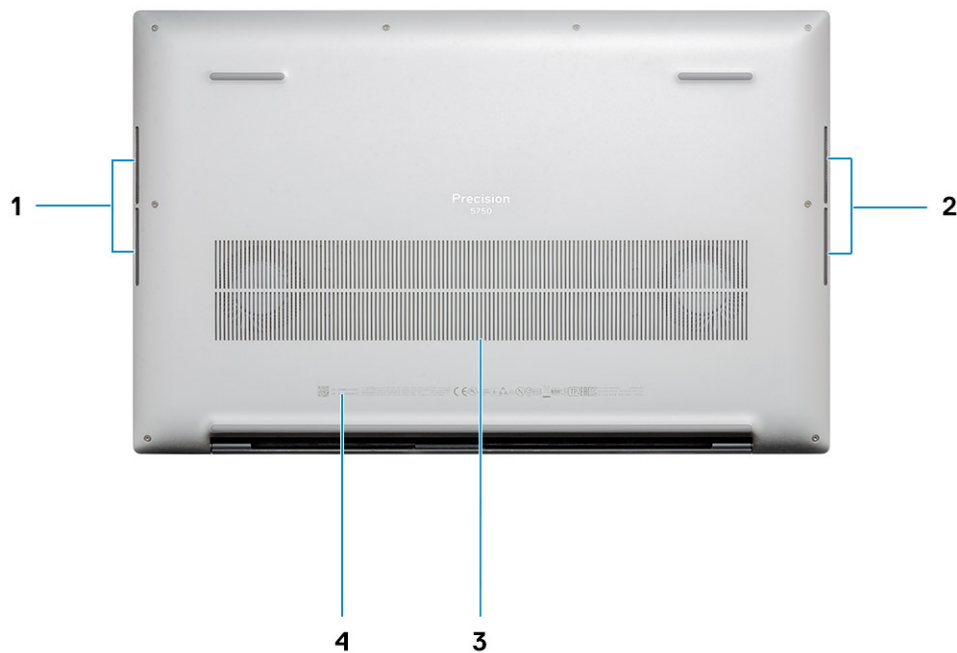
Palmrest view



- 1. Microphones
- 3. Speaker
- 5. Speaker

- 2. Power button with fingerprint reader
- 4. Touchpad

Bottom view



- 1. Speaker
- 3. Fan vents

- 2. Speaker
- 4. Service Tag label

Keyboard shortcuts

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

Table 1. List of keyboard shortcuts

| Keys | Primary behavior | Secondary behavior (Fn + Key) |
|----------|--------------------------------|-------------------------------|
| Fn + Esc | Escape | Toggle Fn-key lock |
| Fn + F1 | Mute audio | F1 behavior |
| Fn + F2 | Decrease volume | F2 behavior |
| Fn + F3 | Increase volume | F3 behavior |
| Fn + F4 | Play/pause for audio playback | F4 behavior |
| Fn + F5 | Turn on/off keyboard backlight | F5 behavior |

Table 1. List of keyboard shortcuts(continued)

| Keys | Primary behavior | Secondary behavior (Fn + Key) |
|-------------|----------------------------|--------------------------------------|
| Fn + F6 | Decrease brightness | F6 behavior |
| Fn + F7 | Increase brightness | F7 behavior |
| Fn + F8 | Switch to external display | F8 behavior |
| Fn + F10 | Print screen | F10 behavior |
| Fn + F11 | Home | F11 behavior |
| Fn + 12 | End | F12 behavior |
| Fn + Ctrl | Open application menu | -- |

Specifications of Precision 5750

Processors

Table 2. Processors

| Description | Values | | | | | | |
|---------------------|---|--------------------------------------|---|---|---|---|---|
| Processors | 10th Generation Intel Core i5-10400H Vpro | 10th Generation Intel Core i7-10750H | 10th Generation Intel Core i7-10850H Vpro | 10th Generation Intel Core i7-10875H Vpro | 10th Generation Intel Core i9-10885H Vpro | 10th Generation Intel Xeon-W10855M Vpro | 10th Generation Intel Xeon-W10885M Vpro |
| Wattage | 45 W | 45 W | 45 W | 45 W | 45 W | 45 W | 45 W |
| Core count | 4 | 6 | 6 | 8 | 8 | 6 | 8 |
| Thread count | 8 | 12 | 12 | 16 | 16 | 12 | 16 |
| Speed | 2.6 to 4.6 GHz | 2.6 to 5.0 GHz | 2.7 to 5.1 GHz | 2.3 to 5.1 GHz | 2.4 to 5.3 GHz | 2.8 to 5.1 GHz | 2.4 to 5.3 GHz |
| Cache | 8 MB | 12 MB | 12 MB | 16 MB | 16 MB | 12 MB | 16 MB |
| Integrated graphics | Intel UHD Graphics | Intel UHD Graphics | Intel UHD Graphics | Intel UHD Graphics | Intel UHD Graphics | Intel UHD Graphics | Intel UHD Graphics |

Chipset

Table 3. Chipset

| Description | Values |
|-------------|--|
| Chipset | Intel WM490 |
| Processor | 10th Generation Intel Core i5/i7/i9/Xeon |
| Flash EPROM | 32 MB |
| PCIe bus | Up to Gen 3.0 |

Operating system

- Windows 10 Home (64-bit)
- Windows 10 Enterprise (64-bit)
- Windows 10 Professional (64-bit)
- Windows 10 Pro Education (64-bit)
- Windows 10 Pro for Workstations (64-bit)
- Windows 10 Pro for China (64-bit)
- RedHat Enterprise Linux (RHEL v8.3)
- Ubuntu 18.04 LTS (64-bit)

Memory

Table 4. Memory specifications

| Description | Values |
|--------------------------|--|
| Slots | Two-SODIMM slots |
| Type | Dual-channel DDR4 |
| Speed | 2666 MHz for ECC memory/2933 MHz for Non-ECC memory |
| Maximum memory | 64 GB |
| Minimum memory | 8 GB |
| Configurations supported | <ul style="list-style-type: none"> · 8 GB, 1 x 8 GB, DDR4, 2666 MHz, ECC, SODIMM · 16 GB, 1 x 16 GB, DDR4, 2666 MHz, ECC, SODIMM · 16 GB, 2 x 8 GB, DDR4, 2666 MHz, ECC, SODIMM · 32 GB, 1 x 32 GB, DDR4, 2666 MHz, ECC, SODIMM · 32 GB, 2 x 16 GB, DDR4, 2666 MHz, ECC, SODIMM · 64 GB, 2 x 32 GB, DDR4, 2666 MHz, ECC, SODIMM · 8 GB, 1 x 8 GB, DDR4, 2933 MHz, Non-ECC, SODIMM · 16 GB, 1 x 16 GB, DDR4, 2933 MHz, Non-ECC, SODIMM · 16 GB, 2 x 8 GB, DDR4, 2933 MHz, Non-ECC, SODIMM · 32 GB, 1 x 32 GB, DDR4, 2933 MHz, Non-ECC, SODIMM · 32 GB, 2 x 16 GB, DDR4, 2933 MHz, Non-ECC, SODIMM · 64 GB, 2 x 32 GB, DDR4, 2933 MHz, Non-ECC, SODIMM <p>NOTE: ECC memory will support 2933 MHz post RTS</p> |

System board connectors

Table 5. System board connectors

| Feature | Specifications |
|----------------|--|
| M.2 Connectors | <ul style="list-style-type: none"> · One M.2 2230 Key-E connector · One M.2 2280 Key-M connector |

Storage

Your computer supports one of the following configurations:

- M.2 2230, solid-state drive (class 35)
- M.2 2280, solid-state drive (class 40)
- M.2 2280, solid-state drive (class 50)
- M.2 2280, SED solid-state drive (class 40)

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

Table 6. Storage specifications

| Form factor | Interface type | Capacity |
|--|--------------------|----------|
| M.2 2230, Gen 3 PCIe x4 NVMe, Class 35 solid-state drive | Gen 3 PCIe NVMe x4 | 256 GB |
| M.2 2280, Gen 3 PCIe x4 NVMe, Class 40 solid-state drive | Gen 3 PCIe NVMe x4 | 2 TB |

Table 6. Storage specifications(continued)

| Form factor | Interface type | Capacity |
|--|--------------------|----------|
| M.2 2280, Gen 3 PCIe x4 NVMe, Class 50 solid-state drive | Gen 3 PCIe NVMe x4 | 1 TB |
| M.2 2280, Gen 3 PCIe x4 NVMe, Class 40 SED solid-state drive | Gen 3 PCIe NVMe x4 | 1 TB |

Media-card reader

Table 7. Media-card reader specifications

| Description | Values |
|-----------------|---|
| Type | SD card slot 4.0 |
| Cards supported | <ul style="list-style-type: none"> · Secure Digital (SD) · Secure Digital High Capacity (SDHC) · Secure Digital Extended Capacity (SDXC) |

Audio

Table 8. Audio specifications

| Description | Values |
|------------------------|--|
| Controller | Realtek ALC3204 with Waves MaxxAudio Pro |
| Stereo conversion | 24-bit DAC (Digital-to-Analog) and ADC (Analog-to-Digital) |
| Internal interface | Intel HDA (high-definition audio) |
| External interface | Universal audio jack |
| Speakers | 4 |
| Speaker Output Average | 2 W |
| Speaker Output Peak | 2.5 W |

Video

Table 9. Discrete graphics specifications

| Discrete graphics | | | |
|-----------------------|--------------------------|-------------|-------------|
| Controller | External display support | Memory size | Memory type |
| NVIDIA Quadro T2000 | mDP/HDMI/Type-C | 4 GB | GDDR6 |
| NVIDIA Quadro RTX3000 | mDP/HDMI/Type-C | 6 GB | GDDR6 |

Table 10. Integrated graphics specifications

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

Camera

Table 11. Camera specifications

| Description | Values |
|------------------------|---------------------------|
| Number of cameras | One |
| Type | · Hello IR Webcam |
| Location | Front camera |
| Sensor type | CMOS sensor technology |
| Resolution: | |
| Still image | 0.92 megapixel |
| Video | 1280 x 720 (HD) at 30 fps |
| Diagonal viewing angle | 78.5 degrees |

Communications

Wireless module

Table 12. Wireless module specifications

| Description | Values |
|---------------------------|---|
| Model number | Intel Wi-Fi 6 AX201 soldered down |
| 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 |

Power adapter

Table 13. Power adapter specifications

| Description | | Values | |
|-----------------------------|--|---|--------------------------------|
| Type | 90 W USB Type-C | 130 W Type-C | |
| Diameter (connector) | Type-C connector | Type-C connector | |
| Weight | 0.23 kg (0.51 lb) | 0.32 kg (0.70 lb) | |
| Input voltage | 100 VAC to 240 VAC | 100 VAC to 240 VAC | |
| Input frequency | 50 to 60 Hz | 50 to 60 Hz | |
| Input current (maximum) | 1.50 A | 1.80 A | |
| Output current (continuous) | <ul style="list-style-type: none"> • 20 V/4.5 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/6.5 A (Continuous) • 5.0 V/1 A (Continuous) | |
| Rated output voltage | <ul style="list-style-type: none"> • 20 VDC • 15 VDC • 9 VDC • 5 VDC | <ul style="list-style-type: none"> • 20 VDC • 5 VDC | |
| | 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 14. Battery specifications

| Description | | Values | |
|--------------------|------------------------------------|---|---|
| Type | 56 WHr, 3-cell "smart" lithium-ion | 97 WHr, 6-cell "smart" lithium-ion | |
| Voltage | 11.40 VDC | 11.40 VDC | |
| Weight (maximum) | 0.27 kg (0.60 lb) | 0.385 kg (0.85 lb) | |
| Dimensions: | | | |
| | Height | 8.45 mm (0.33 in.) | 8.45 mm (0.33 in.) |
| | Width | 69.70 mm (2.74 in.) | 69.70 mm (2.74 in.) |
| | Depth | 330.65 mm (13.02 in.) | 330.65 mm (13.02 in.) |
| Temperature range: | | | |
| | Operating | <ul style="list-style-type: none"> • Charge: 0°C to 50°C (32°F to 122°F) • Discharge: 0°C to 60°C (32°F to 140°F) | <ul style="list-style-type: none"> • Charge: 0°C to 50°C (32°F to 122°F) • Discharge: 0°C to 60°C (32°F to 140°F) |

Table 14. Battery specifications(continued)

| Description | | Values | |
|-----------------------------|---------|--|--|
| | Storage | -20°C to 60°C (-4°F to 140°F) | -20°C to 60°C (-4°F to 140°F) |
| Operating time | | Varies depending on operating conditions and can significantly reduce under certain power-intensive conditions. | Varies depending on operating conditions and can significantly reduce under certain power-intensive conditions. |
| Charging time (approximate) | | <ul style="list-style-type: none"> • Standard charge, 0°C to 50°C (32°F to 122°F): 4 hours • ExpressCharge, 0°C to 15°C (32°F to 59°F): 4 hours • ExpressCharge, 16°C to 45°C (60.80°F to 113°F): 2 hours • ExpressCharge, 46°C to 50°C (114.80°F to 122°F): 3 hours <p>NOTE: Control the charging time, duration, start and end time, and so on, using the Dell Power Manager application. For more information about the Dell Power Manager, see, <i>Me and My Dell</i> on 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 <i>Me and My Dell</i> on www.dell.com/</p> | <ul style="list-style-type: none"> • Standard charge, 0°C to 50°C (32°F to 122°F): 4 hours • ExpressCharge, 0°C to 15°C (32°F to 59°F): 4 hours • ExpressCharge, 16°C to 45°C (60.80°F to 113°F): 2 hours • ExpressCharge, 46°C to 50°C (114.80°F to 122°F): 3 hours <p>NOTE: Control the charging time, duration, start and end time, and so on, using the Dell Power Manager application. For more information about the Dell Power Manager, see, <i>Me and My Dell</i> on 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 <i>Me and My Dell</i> on 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. |

Dimensions and weight

Table 15. Dimensions and weight

| Description | | Values |
|-------------|--|--|
| Height: | | |
| Front | | 8.67 mm (0.34 in.) |
| Rear | | 13.15 mm (0.52 in.) |
| Width | | 374.48 mm (14.74 in.) |
| Depth | | 248.08 mm (9.77 in.) |
| Weight | | 2.13 kg (4.70 lb) |
| | | NOTE: The weight of your system depends on the configuration ordered and the manufacturing variability. |

Ports and connectors

Table 16. External ports and connectors

| Description | Values |
|--------------------|--|
| External: | |
| USB | <ul style="list-style-type: none"> Four USB Type-C 3.2 Gen 2 Charging port with Thunderbolt3 /DisplayPort 1.4 |
| Audio | One Universal Audio Jack |
| Video | via display dongle/duck to connect external display |
| Power adapter port | Four Type-C power port |
| Security | One Wedge-shaped lock slot |
| Card slot | Micro SD card slot |
| Dongle | DA20 dual port HDMI/USB Dongle |

Table 17. Internal ports and connectors

| Description | Values |
|---|--|
| Internal: | |
| One M.2 Key-M (2280 or 2230) for solid-state drive One M.2 2230 Key-E for WLAN | <ul style="list-style-type: none"> One M.2 2230 slot for solid-state drive 256 GB One M.2 2280 slot for solid-state drive 256 GB/512 GB/1 TB/2 TB One M.2 2280 slot for Self-Encrypting solid-state drive 512 GB/1 TB <p>NOTE: To learn more about the features of different types of M.2 cards, see the knowledge base article SLN301626.</p> |

Touchpad

Table 18. Touchpad specifications

| Feature | Specifications |
|-------------|---|
| Resolution | 1221 x 661 |
| Dimensions | <ul style="list-style-type: none"> Width: 101.7 mm (4.00 in.) Height: 55.2 mm (2.17 in.) |
| Multi-touch | Supports 5-finger multi-touch <p>NOTE: For more information about touchpad gestures for Windows 10, see the Microsoft knowledge base article 4027871 at support.microsoft.com.</p> |

Table 19. Supported gestures

| Supported gestures | Windows 10 |
|--------------------|------------|
| Cursor moving | Supported |

Table 19. Supported gestures(continued)

| Supported gestures | Windows 10 |
|--|------------|
| Clicking/ tapping | Supported |
| Click and drag | Supported |
| 2-finger scroll | Supported |
| 2-finger Pinch/ Zoom | Supported |
| 2-finger tap (Right Clicking) | Supported |
| 3-finger tap (Invoke Cortana) | Supported |
| 3-finger swipe up (See all open windows) | Supported |
| 3-finger swipe down (Show the desktop) | Supported |
| 3-finger swipe right or left (Switch between open windows) | Supported |
| 4-finger tap (Invoke Action Center) | Supported |
| 4-finger swipe right or left (Switch virtual desktops) | Supported |

Display

Table 20. Display specifications

| Description | Values | |
|---------------------------|-----------------------------|------------------------------|
| Type | Full High Definition (FHD+) | Ultra High Definition (UHD+) |
| Panel technology | Wide Viewing Angle (WVA) | Wide Viewing Angle (WVA) |
| Luminance (typical) | 500 nits | 500 nits |
| Dimensions (Active Area): | | |
| | Height | 366.34 mm (14.42 in.) |
| | Width | 228.96 mm (9.01 in.) |
| | Diagonal | 431.80 mm (17 in.) |
| Native Resolution | 1920 x 1200 | 3840 x 2400 |
| Megapixels | 2.3 | 9.2 |
| Pixels per Inch (PPI) | 133 | 266 |
| Color Gamut (CG) | sRGB 100% | AdobeRGB 100% |
| Contrast Ratio (min) | 1800:1 | 1800:1 |
| 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 | 0.1908 mm | 0.0549 mm |

Table 20. Display specifications (continued)

| Description | Values | |
|-----------------------------|------------|----------------------|
| Power Consumption (maximum) | 5.50 W | 13.98 W |
| Anti-glare vs glossy finish | Anti-glare | Anti-reflective |
| Touch options | No | Yes, 10 finger touch |

Keyboard

Table 21. Keyboard specifications

| Feature | Specifications |
|------------------|--|
| Number of keys | <ul style="list-style-type: none"> · 102 (U.S. and Canada) · 103 (UK) · 106 (Japan) |
| Size | Full sized <ul style="list-style-type: none"> · X= 18.6 mm (0.73 in.) key pitch · Y= 19.05 mm (0.75 in.) key pitch |
| Backlit keyboard | Optional (backlit and Non-backlit) |
| Layout | QWERTY |

Fingerprint reader in Power Button

Table 22. Fingerprint reader specifications

| Description | Values | |
|-------------------|------------|------------|
| Sensor technology | Capacitive | Capacitive |
| Sensor resolution | 363 dpi | 500 dpi |
| Sensor pixel size | 76 x 100 | 108 x 88 |

Sensor and control specifications

Table 23. Sensor and control specifications

| Specifications |
|--|
| 1. Free fall sensor on motherboard |
| 2. Hall Effect Sensor (Detects when the lid is closed) |
| 3. Proximity sensor |

Security

Table 24. Security specifications

| Features | Specifications |
|-----------------------------------|----------------------------|
| Trusted Platform Module (TPM) 2.0 | Integrated on system board |
| Fingerprint reader | Optional |
| Wedge-shaped lock slot | Standard |

Security Software

Table 25. Security Software specifications

| Specifications |
|---|
| Dell Client Command Suite |
| Optional Dell Data Security and Management Software |
| Dell Client Command Suite |
| Dell BIOS Verification |
| Optional Dell Endpoint Security and Management Software |
| VMware Carbon Black Endpoint Standard |
| VMware Carbon Black Endpoint Standard + Secureworks Threat Detection and Response |
| Dell Encryption Enterprise |
| Dell Encryption Personal |
| Carbonite |
| VMware Workspace ONE |
| Absolute® Endpoint Visibility and Control |
| Netskope |
| Dell Supply Chain Defense |

Computer environment

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

Table 26. Computer environment

| Description | Operating | Storage |
|-----------------------------|--|--|
| Temperature range | 0°C to 35°C (32°F to 95°F) | -40°C to 65°C (-40°F to 149°F) |
| Relative humidity (maximum) | 10% to 90% (non-condensing) | 0% to 95% (non-condensing) |
| Vibration (maximum)* | 0.66 GRMS | 1.30 GRMS |
| Shock (maximum) | 110 G† | 160 G† |
| Altitude (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

Topics:

- Graphics options
- Supported hard drives
- Communications

Graphics options

Intel UHD Graphics P630

Table 27. Intel UHD Graphics P630 specifications

| Intel UHD 630 Graphics | |
|---|---|
| Bus Type | Integrated |
| Memory Type | UMA |
| Graphics Level | Xeon: GT2 (UHD P630) |
| Estimated Maximum Power Consumption (TDP) | 15 W (included in the CPU power) |
| Overlay Planes | Yes |
| Operating Systems Graphics/ Video API Support | DirectX 12, OpenGL (4.6, 2.1) |
| Maximum Vertical Refresh Rate | <ul style="list-style-type: none"> • HDMI 2.0: 4096 x 2160 @ 60 Hz, 24bpp, Via optional USB Type-C to HDMI dongle • Max Digital: (DP 1.2 over Type-C Port) 4096 x 2304 @ 60 Hz, 24bpp |
| Number of display supported | Up to three displays supported via DisplayPort Multi-Streaming Technology (MST) |
| Multiple Display Support | Via Type-C: HDMI 2.0 (via optional USB-C cable to HDMI cable); DisplayPort 1.2 (via optional USB-C cable or USB-C to DP cable); |
| External Connectors | USB Type-C port |

Intel UHD Graphics 630

Table 28. Intel UHD Graphics 630 specifications

| Intel UHD Graphics | |
|---|----------------------------------|
| Bus Type | Integrated |
| Memory Type | UMA |
| Graphics Level | i5/i7/i9 GT2 (UHD) |
| Estimated Maximum Power Consumption (TDP) | 15 W (included in the CPU power) |
| Overlay Planes | Yes |

Table 28. Intel UHD Graphics 630 specifications(continued)

| Intel UHD Graphics | |
|---|---|
| Operating Systems Graphics/ Video API Support | DirectX 12, OpenGL (4.6, 2.1) |
| Maximum Vertical Refresh Rate | <ul style="list-style-type: none"> · HDMI 2.0: 4096 x 2160 @ 60 Hz, 24bpp, Via optional USB Type-C to HDMI dongle · Max Digital: (DP 1.2 over Type-C Port) 4096 x 2304 @ 60 Hz, 24bpp |
| Number of display supported | Up to three displays supported via DisplayPort Multi-Streaming Technology (MST) |
| Multiple Display Support | Via Type-C: HDMI 2.0 (via optional USB-C cable to HDMI cable); DisplayPort 1.2 (via optional USB-C cable or USB-C to DP cable); |
| External Connectors | USB Type-C port |

NVIDIA Quadro T2000

Table 29. NVIDIA Quadro T2000

| Feature | Values |
|--|--|
| Graphics memory | 4 GB |
| Cores | 2304 |
| Memory bandwidth | 128 Gbps |
| Memory type | GDDR5 |
| Memory Interface | 128-bit |
| Clock Speeds | 945 - 1380 (Boost) MHz |
| GPU base clock | 3504 MHz (min. at P0) |
| Estimated Maximum Power | 50 W |
| Display Support | eDP/mDP/HDMI/Type-C |
| Maximum Color Depth | Up to 10 bit/color |
| Operating Systems Graphics/ Video API Support | DirectX 12.0, OpenGL 4.6, DisplayPort 1.4, DirectX 12.1 |
| Supported Resolutions and Max Refresh Rates (Hz) | <ul style="list-style-type: none"> · Max Digital : Single DisplayPort 1.4 - 7680 x 4320 (8k) @ 30 Hz (mDP/type-c to DP) · Max Digital : Dual DisplayPort 1.4 - 7680 x 4320 (8k) @ 60 Hz (mDP/type-c to DP) |
| Numbers of Display Support | Up to 4 displays |

NVIDIA Quadro RTX3000

Table 30. NVIDIA Quadro RTX3000

| Feature | Values |
|------------------|---------------|
| Graphics memory | 6 GB |
| Cores | 2304 |
| Memory bandwidth | 336 Gbps |

Table 30. NVIDIA Quadro RTX3000(continued)

| Feature | Values |
|--|--|
| Memory type | GDDR6 |
| Memory Interface | 192-bit |
| Clock Speeds | 945 - 1380 (Boost) MHz |
| GPU base clock | 3504 MHz (min. at P0) |
| Estimated Maximum Power | 65 W |
| Display Support | eDP/mDP/HDMI/Type-C |
| Maximum Color Depth | Up to 10 bit/color |
| Operating Systems Graphics/ Video API Support | DirectX 12.0, OpenGL 4.6, DisplayPort 1.4, DirectX 12.1 |
| Supported Resolutions and Max Refresh Rates (Hz) | <ul style="list-style-type: none"> · Max Digital : Single DisplayPort 1.4 - 7680 x 4320 (8k) @ 30 Hz (mDP/type-c to DP) · Max Digital : Dual DisplayPort 1.4 - 7680 x 4320 (8k) @ 60 Hz (mDP/type-c to DP) |
| Numbers of Display Support | Up to 4 displays |

Supported hard drives

256 GB M.2 2230 PCIe Gen3x4 NVMe Class 35 Solid-State Drive

Table 31. 256 GB M.2 2230 PCIe Gen3x4 NVMe Class 35 SSD

| Features | Specifications |
|---|-----------------------------------|
| Capacity (GB) | 256 GB |
| Dimensions (mm) (W x D x H) | (22 x 30 x 2.38) mm |
| Interface type and Maximum speed | PCIe Gen3 32 Gb/s (up to 4 lanes) |
| MTBF | 1.4M hours |
| Logical Blocks | 500,118,192 |
| Power Source: | |
| Power Consumption (reference only) | Idle 5 mW (PS4), Active 3.5 W |
| Environmental Operating Conditions (Non-Condensing): | |
| Temperature Range | 0°C–70°C |
| Relative Humidity Range | 10–90% |
| Non-Op Shock (@0.5 ms) | 1,500G |
| Environmental Non-Operating Conditions (Non-Condensing): | |
| Temperature Range | -40°C to 70°C |
| Relative Humidity Range | 5% to 95% |

256GB M.2 2280 PCIe Gen3x4 NVMe Class 40 Solid State Drive

Table 32. 256GB M.2 2280 PCIe Gen3x4 NVMe Class 40 Solid State Drive

| | |
|--|--|
| Capacity (GB) | 256 GB |
| 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 (up to 4 lanes) |
| MTBF | 1.4M hours |
| Logical blocks | 500,118,192 |
| Power source | |
| Power consumption (reference only) | Idle 5 mW, Active 4.5 W |
| Environmental Operating Conditions (Non-Condensing) | |
| Temperature range | 0°C to 70°C |
| Relative humidity range | 10% to 90% |
| Op shock (@ 2ms) | 1500 G |
| Environmental Non-Operating Conditions (Non-Condensing) | |
| Temperature range | -40°C to 70°C |
| Relative humidity range | 5% to 95% |

512 GB M.2 2280 PCIe Gen3x4 NVMe Class 40 Solid State Drive

Table 33. 512 GB M.2 2280 PCIe Gen3x4 NVMe Class 40 SSD

| Features | Specifications |
|---|-----------------------------------|
| 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 (up to 4 lanes) |
| MTBF | 1.4M hours |
| Logical Blocks | 1,000,215,216 |
| Power Source: | |
| Power Consumption (reference only) | 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) | 1,500G |

Table 33. 512 GB M.2 2280 PCIe Gen3x4 NVMe Class 40 SSD (continued)

| Features | Specifications |
|---|----------------|
| Environmental Non-Operating Conditions (Non-Condensing): | |
| Temperature Range | -40°C to 70°C |
| Relative Humidity Range | 5% to 95% |

512 GB M.2 2280 PCIe Gen3x4 NVMe Class 40 Opal 2.0 SED Solid State Drive

Table 34. 512 GB M.2 2280 PCIe NVMe Class 40 Opal 2.0 SED SSD

| Features | Specifications |
|---|-----------------------------------|
| 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 (up to 4 lanes) |
| MTBF | 1.4M hours |
| Logical Blocks | 1,000,215,216 |
| Power Source: | |
| Power Consumption (reference only) | 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 (@2 ms) | 1,500G |
| Environmental Non-Operating Conditions (Non-Condensing): | |
| Temperature Range | -40°C to 70°C |
| Relative Humidity Range | 5% to 95% |

1TB M.2 2280 PCIe Gen3x4 NVMe Class 40 Solid State Drive

Table 35. 1TB M.2 2280 PCIe Gen3x4 NVMe Class 40 Solid State Drive

| | |
|----------------------------------|--|
| Capacity (GB) | 1 TB |
| 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 (Up to 4 lanes) |
| MTBF | 1.4M hours |
| Logical blocks | 2,000,409,264 |

Table 35. 1TB M.2 2280 PCIe Gen3x4 NVMe Class 40 Solid State Drive(continued)

| | |
|--|-------------------------|
| Power source | |
| Power consumption (reference only) | Idle 5 mW, Active 4.5 W |
| Environmental Operating Conditions (Non-Condensing) | |
| Temperature range | 0°C to 70°C |
| Relative humidity range | 10% to 90% |
| Op shock (@ 2ms) | 1500 G |
| Environmental Non-Operating Conditions (Non-Condensing) | |
| Temperature range | -40°C to 70°C |
| Relative humidity range | 5% to 95% |

1 TB M.2 2280 PCIe Gen3x4 NVMe Class 40 Opal 2.0 SED Solid State Drive

Table 36. 1 TB M.2 2280 PCIe Gen3x4 NVMe Class 40 Opal 2.0 SED SSD Solid State Drive

| | |
|--|--|
| Capacity (GB) | 1 TB |
| 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 (Up to 4 lanes) |
| MTBF | 1.5 Million Hours |
| Logical blocks | 2,000,409,264 |
| Power source | |
| Power consumption (reference only) | Idle 5 mW (PS4), Active 4.5 W |
| Environmental Operating Conditions (Non-Condensing) | |
| Temperature range | 0°C to 70°C |
| Relative humidity range | 5% to 95% |
| Op shock (@ 2ms) | 1500 G |
| Environmental Non-Operating Conditions (Non-Condensing) | |
| Temperature range | -40°C to 85°C |
| Relative humidity range | 5% to 95% |

2TB M.2 2280 PCIe Gen3x4 NVMe Class 40 Solid State Drive

Table 37. 2TB M.2 2280 PCIe Gen3x4 NVMe Class 40 Solid State Drive

| | |
|--|--|
| Capacity (GB) | 2 TB |
| 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 (up to 4 lanes) |
| MTBF | 1.4M hours |
| Logical blocks | 2,000,409,264 |
| Power source | |
| Power consumption (reference only) | 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% |
| Op shock (@ 2ms) | 1500G |
| Environmental Non-Operating Conditions (Non-Condensing) | |
| Temperature range | -40°C to 70°C |
| Relative humidity range | 5% to 95% |

512 GB M.2 2280 PCIe Gen3x4 NVMe Class 50 Solid State Drive

Table 38. 512 GB M.2 2280 PCIe Gen3x4 NVMe Class 50 Solid State Drive

| | |
|--|--|
| Capacity (GB) | 512 GB |
| 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 (up to 4 lanes) |
| MTBF | 1.4 Million hours |
| Logical blocks | 1,000,215,216 |
| Power source | |
| Power consumption (reference only) | Idle 5 mW (PS4 – L1.2), Active 4.5 W |
| Environmental Operating Conditions (Non-Condensing) | |
| Temperature range | 0°C to 70°C |
| Relative humidity range | 5% to 95% |

Table 38. 512 GB M.2 2280 PCIe Gen3x4 NVMe Class 50 Solid State Drive(continued)

| | |
|--|---------------|
| Op shock (@ 2ms) | 1500 G |
| Environmental Non-Operating Conditions (Non-Condensing) | |
| Temperature range | -40°C to 70°C |
| Relative humidity range | 5% to 95% |

1 TB M.2 2280 PCIe Gen3x4 NVMe Class 50 Solid State Drive

Table 39. 1 TB M.2 2280 PCIe Gen3x4 NVMe Class 50 Solid State Drive

| | |
|--|--|
| Capacity (GB) | 1 TB |
| 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 (Up to 4 lanes) |
| MTBF | 1.4 million hours |
| Logical blocks | 2,000,409,264 |
| Power source | |
| Power consumption (reference only) | Idle 5 mW (PS4 – L1.2), Active 4.5 W |
| Environmental Operating Conditions (Non-Condensing) | |
| Temperature range | 0°C to 70°C |
| Relative humidity range | 5% to 95% |
| Op shock (@ 2ms) | 1500 G |
| Environmental Non-Operating Conditions (Non-Condensing) | |
| Temperature range | -40°C to 70°C |
| Relative humidity range | 5% to 95% |

Communications

Wireless LAN options

Intel AX201 160 MHz + Bluetooth

Table 40. Intel AX201 160 MHz + Bluetooth

| Feature | Specifications |
|--------------|-----------------------------|
| Model Number | Intel AX201 |
| Data rate | 2.4 GHz 40M: Up to 574 Mbps |

Table 40. Intel AX201 160 MHz + Bluetooth(continued)

| Feature | Specifications |
|----------------------------|---|
| | 5 GHz 80M: Up to 1.2 Gbps 5 GHz 160M: Up to 2.4 Gbps |
| Frequency bands supported: | |
| Frequency band1 (GHz) | 2.4 |
| Frequency band2 (GHz) | 5 |
| Network standards: | IEEE 802.11a/b/g/n/ac/ax, 160 MHz channel use, MU-MIMO |
| Wireless standards: | |
| Wireless standards option1 | WiFi certified a/b/g/n/ac with wave 2 features |
| Wireless standards option2 | WMM, WMM-PS, |
| Wireless standards option3 | WPA, WPA2 |
| Wireless standards option4 | Wi-Fi 6 (WiFi 802.11ax) |
| Encryption: | |
| Encryption option1 | 64-bit and 128-bit WEP |
| Encryption option2 | 128-bit AES-CCMP |
| Encryption option3 | TKIP |
| Encryption option4 | 256-bit AES-GCMP |
| Bluetooth | 5.1 |


Getting help

Topics:

- [Contacting Dell](#)

Contacting Dell

Prerequisites

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

About this task

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

Steps

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