

Dell Precision 3430 Small Form Factor

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

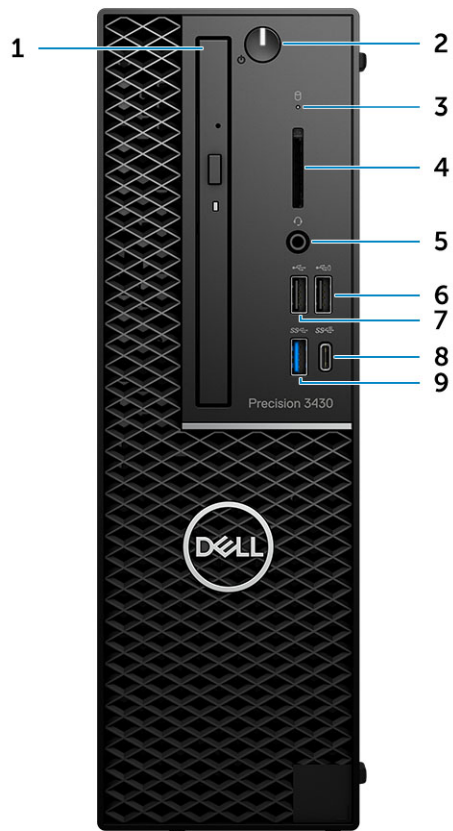
Topics:

- [System view](#)
- [Front view](#)
- [Back view](#)
- [Motherboard layout](#)

System view

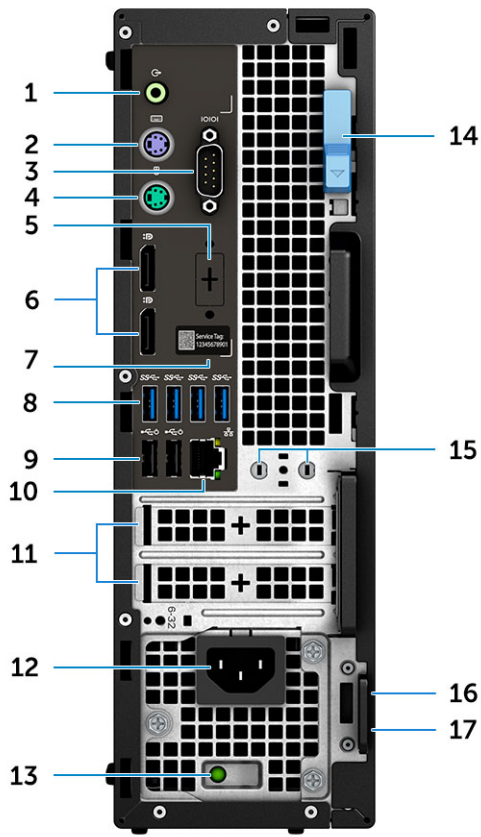


Front view



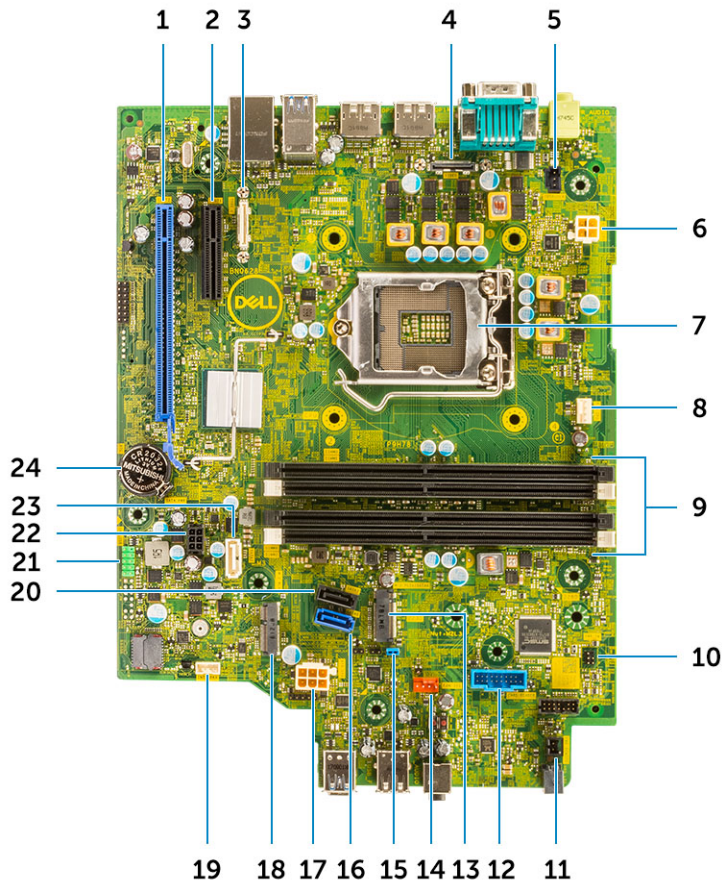
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|---|----------------------|---|---|
| 1 | Optical drive | 2 | Power button |
| 3 | Drive activity light | 4 | SD card slot |
| 5 | Headset port | 6 | USB 2.0 port with PowerShare |
| 7 | USB 2.0 port | 8 | USB 3.1 Gen 2 Type-C port with PowerShare |
| 9 | USB 3.1 Gen 1 port | | |

Back view



- | | | | |
|----|---|----|--------------------------------|
| 1 | Line-out port | 2 | PS/2 keyboard port |
| 3 | Serial port | 4 | PS/2 mouse port |
| 5 | DisplayPort/HDMI 2.0/VGA/USB Type-C Alt-Mode (optional) | 6 | DisplayPort * 2 |
| 7 | Service tag label | 8 | USB 3.1 Gen 1 ports |
| 9 | USB 2.0 ports(supports SmartPower On) | 10 | RJ45 network port |
| 11 | Expansion card slots | 12 | Power cable connector |
| 13 | Power activity light | 14 | Release latch |
| 15 | Antennas | 16 | Kensington security cable slot |
| 17 | Padlock ring | | |

Motherboard layout



- | | | | |
|----|---|----|---|
| 1 | PCI-e x16 connector (slot 2) | 2 | PCI-e x4 connector (slot1—open ended x4 to support x16) |
| 3 | USB Type-C connector | 4 | Video connector |
| 5 | Intrusion switch connector (Intruder) | 6 | CPU power connector (ATX_CPU) |
| 7 | Processor socket (CPU) | 8 | CPU fan connector |
| 9 | Memory slots (DIMM1, DIMM2, DIMM3, DIMM4) | 10 | Power switch connector (PWR_SW) |
| 11 | Remote PWR switch connector | 12 | Media card reader connector (Card_reader) |
| 13 | M.2 SSD card/Intel Optane connector | 14 | System fan connector |
| 15 | Clear password jumper (PASSWORD_CLR) | 16 | SATA 0 connector |
| 17 | PSU connector | 18 | M.2 WLAN connector |
| 19 | Internal speaker connector (INT_SPKR) | 20 | SATA 3 connector |
| 21 | Internal USB connector (FRONT_USB) | 22 | SATA power connector (SATA_PWR) |
| 23 | SATA 2 connector | 24 | Coin cell battery |

Technical specifications

Topics:

- System information
- Processor
- Memory
- Storage
- Media card-reader
- System board connectors
- Audio
- Video card
- Communication
- Wireless
- Ports and connectors
- Power supply
- Operating system
- Physical system dimensions
- Security
- Security Software
- Miscellaneous software
- Environmental

System information

Table 1. System information

Chipset	Intel C246 Chipset
DRAM bus width	64-bit
FLASH EPROM	SPI 128Mbits
PCIe bus	100 Mhz
External bus frequency	DMI 3.0-8GT/s

Processor

NOTE: Processor numbers are not a measure of performance. Processor availability is subject to change and may vary by region/country.

Table 2. Processor specifications

Type	UMA Graphics
Intel Xeon E Processor E-2174G (4 Core HT, 8MB Cache, 3.8Ghz, 4.7Ghz)	Intel UHD Graphics 630
Intel Xeon E Processor E-2146G (6 Core HT, 12MB Cache, 3.5Ghz, 4.5Ghz)	Intel UHD Graphics 630
Intel Xeon E Processor E-2136 (6 Core HT, 12MB Cache, 3.3Ghz, 4.5Ghz)	N/A
Intel Xeon E Processor E-2124G (4 Core, 8MB Cache, 3.4GHz, 4.5Ghz)	Intel UHD Graphics 630
Intel Xeon E Processor E-2124 (4 Core, 8MB Cache, 3.4GHz, 4.5Ghz)	N/A
Intel Core Processor i7-8700 (6 Core, 12MB Cache, 3.20GHz, 4.6Ghz)	Intel UHD Graphics 630
Intel Core Processor i5-8600 (6 Core,9MB Cache, 3.1GHz, 4.3Ghz)	Intel UHD Graphics 630
Intel Core Processor i5-8500 (6 Core,9MB Cache, 3.0GHz, 4.1Ghz)	Intel UHD Graphics 630
Intel Core Processor i3-8100 (4 Core, 6MB Cache, 3.6GHz)	Intel UHD Graphics 630
Intel Gold G5400 (2 Core, 4MB Cache, 3.7GHz)	Intel UHD Graphics 630

Memory

Table 3. Memory specifications

Minimum memory configuration	4 GB
Maximum memory configuration	64 GB
Number of slots	4 UDIMM
Maximum memory supported per slot	16 GB
Memory options	<ul style="list-style-type: none"> • 4 GB - 1 x 4 GB • 8 GB - 1 x 8 GB • 8 GB - 2 x 4 GB • 16 GB - 2 x 8 GB • 16 GB - 4 x 4 GB • 32 GB - 2 x 16 GB • 32 GB - 4 x 8 GB • 64 GB - 4 x 16 GB
Type	ECC/Non-ECC memory
Speed	2666 MHz

 **NOTE: Pentium and i3 will run at 2400 MHz**

Storage

Table 4. Storage specifications

Type	Form factor	Interface	Security option	Capacity
Two NVMe Solid-State Drives(SSD)	M.2 2280	PCIe 4, Up to 32 Gbps	SED	Up to 1 TB
One Solid-State Optane memory drive (SSD)	M.2 2230	PCIe, Up to 32 Gbps		32 GB
Two 2.5 inch Hard-Disk Drive (HDD)	Approximately (2.760 x 3.959 x 0.374 inches)	SATA AHCI, Up to 6 Gbps	SED, Opal, FIPS	Up to 4 TB
One 3.5 inch Hard-Disk Drive (HDD))	Approximately (2.760 x 3.959 x 0.276 inches)	SATA AHCI, Up to 6 Gbps		Up to 4 TB

Media card-reader

Table 5. Media-card reader specifications

Type	One SD-card slot
Supported cards	<ul style="list-style-type: none">• SD• SDHC• SDXC

System board connectors

Table 6. System board connectors

M.2 Connectors	One (2280 and 2230)
Serial ATA (SATA) connector	Three Gen 3 full height slot
PCIe X16 slot	One half height slot
PCIex4 slot (Open ended)	One half height slot

Audio

Table 7. Audio specifications

Controller	Realtek ALC3234
Type	Four-channel high-definition audio
Speakers	Two (Directional speakers)

Interface

- Universal audio jack
- High quality speakers
- Noise reducing array microphones
- Stereo headset/mic combo

Internal speaker amplifier

2W (RMS) per channel

Video card

Table 8. Video card specifications

Controller	Type	CPU Dependency	Graphics memory type	Capacity	External display support	Maximum resolution
Intel UHD Graphics 630	UMA	<ul style="list-style-type: none">• Intel Core i3 - 8300/8100• Intel Core i5 - 8600/8500/8400• Intel Core i7 - 8700• Intel Xeon E Processor E-2174G/ E-2146G/ E-2124G	Integrated	Shared system memory	DisplayPort/HDMI 1.4	4096 x 2304
NVIDIA Quadro P1000	Discrete	N/A	GDDR5	4 GB	mDP/DisplayPort	5120 x 2880
NVIDIA Quadro P620	Discrete	N/A	GDDR5	2 GB	mDP/DisplayPort	5120 x 2880
NVIDIA Quadro P400	Discrete	N/A	GDDR5	2 GB	mDP/DisplayPort	5120 x 2880
AMD Radeon Pro WX4100	Discrete	N/A	GDDR5	4 GB	mDP	5120 x 2880
AMD Radeon Pro WX3100	Discrete	N/A	GDDR5	4 GB	mDP/DisplayPort	5120 x 2880
AMD Radeon Pro WX2100	Discrete	N/A	GDDR5	2 GB	mDP/DisplayPort	5120 x 2880

Communication

Table 9. Communication specifications

Network adapter

Integrated Intel i219-LM 10/100/1000 Mbps Ethernet (RJ-45) with Intel Remote Wake UP, PXE and Jumbo frames support

Wireless

Table 10. Wireless specifications

Intel Dual Band Wireless-AC 9560 802.11AC 2x2 Wi-Fi + BT 5 LE M.2 Wireless Card

Qualcomm QCA61x4A 802.11ac MU-MIMO Dual Band (2x2) Wi-Fi + Bluetooth 4.2 LE M.2 Wireless Card

Ports and connectors

Table 11. Ports and connectors

Memory card reader	SD card reader
Smart card reader	Optional
USB	<ul style="list-style-type: none">• One USB 2.0 port with PowerShare• One USB 2.0 port (Front)• One USB 3.1 Gen 2 Type-C with PowerShare (Front)• One USB 3.1 Gen 1 port (Front)• Four USB 3.1 Gen 1 ports (Rear)• Two USB 2.0 ports (Rear)
Security	Noble wedge lock slot/Padlock Ring
Audio	<ul style="list-style-type: none">• Universal audio jack
Video	<ul style="list-style-type: none">• Display Port/HDMI 2.0b/VGA/USB Type C Display Port (optional)• Two Display Ports
Network adapter	One RJ-45 connector
Serial port	One serial port (optional)
PS/2	<ul style="list-style-type: none">• Mouse• Keyboard

Power supply

Table 12. Power supply

Input voltage	100–240 VAC, 50–60 Hz
Wattage	<ul style="list-style-type: none">• 200 W 100V-240V Full range• 260 W 100V-240V Full range

Operating system

Table 13. Operating system

Operating systems supported

- Windows 10 Home (64 bit)
- Windows 10 Professional (64 bit)
- Windows 10 Pro National Academic
- Windows 10 Home
- Ubuntu 16.04 LTS (64bit)
- NeoKylin 6.0
- Red Hat Linux 7.5

Physical system dimensions

Table 14. Physical system dimensions

Chassis volume (liters)	7.8
Chassis weight (pounds / kilograms)	11.57 / 5.26

Table 15. Chassis dimensions

Height (inches / centimeters)	11.42 / 29
Width (inches / centimeters)	3.65 / 9.26
Depth (inches / centimeters)	11.50 / 29.2
Shipping weight (pounds / kilograms – includes packaging materials)	15.09 / 6.86

Table 16. Packaging parameters

Height (inches / centimeters)	10.38 / 26.4
Width (inches / centimeters)	19.2 / 48.7
Depth (inches / centimeters)	15.5 / 39.4

Security

Table 17. Security

Trusted Platform Module (TPM) 2.0	Integrated on the system board
Firmware TPM	Optional
Windows Hello Support	Optional via security input device

Cable cover	Optional
Chassis intrusion switch	Standard
Dell Smartcard Keyboard	Optional
Chassis lock slot and loop support	Standard

Security Software

Table 18. Security Software

Dell Endpoint Security Suite Enterprise	Optional
Dell Data Guardian	Optional
Dell Encryption (Enterprise or Personal)	Optional
Dell Threat Defense	Optional
RSA SecurID Access	Optional
RSA NetWitness Endpoint	Optional
MozyPro or MozyEnterprise	Optional
VMware Airwatch/WorkspaceONE	Optional
Absolute Data & Device Security	Optional

Miscellaneous software

Table 19. Miscellaneous software

Dell Precision Optimizer V 5.0	Standard
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Environmental

NOTE: For more details on Dell environmental features, please go to the environmental attributes section. See your specific region for availability.

Table 20. Environmental

Energy efficient power supply	Internal
80 plus bronze certification	200 W EPA bronze (not available in North America or Brazil)
80 plus platinum certification	200 W (Only available in North America and Brazil) and 260 W EPA platinum
Recyclable packaging	Yes

MultiPack packaging	Optional, US only
Energy Star 6.1 (or later) Compliant (Windows and Ubuntu)	Yes

Engineering specifications

Topics:

- System board connector maximum add-in card allowable dimensions
- Graphics options
- Supported hard drives
- Communications
- Accessories

System board connector maximum add-in card allowable dimensions

Table 21. PCIe x4 Connector

Number of slots	1
Voltage	3.30/12.0V
Height (inches / centimeters)	2.731 / 6.89
Length (inches / centimeters)	6.6 / 16.76
Maximum wattage	25W

Table 22. PCIe x16 Connector

Number of slots	1
Voltage	3.30/12.0V
Height (inches / centimeters)	4.38/11.12
Length (inches / centimeters)	4.50/11.44
Maximum wattage	55 W

Table 23. M.2 slot for SSD drive 2280 D5

Number of slots	1
Voltage	3.30/12.0V
Height (inches / centimeters)	4.38/11.12

Length (inches / centimeters)	4.50/11.44
Maximum wattage	10 W

Table 24. M.2 slot for WiFi card 2230 D3

Number of slots	1
Voltage	3.30/12.0V
Height (inches / centimeters)	4.38/11.12
Length (inches / centimeters)	4.50/11.44
Maximum wattage	10 W

Graphics options

NVIDIA Quadro P1000

Table 25. NVIDIA Quadro P1000 specifications

Graphics memory	4 GB GDDR5
Bus type	PCIe x16 Gen3
Memory Interface	128-bit
Clock Speeds	1088 MHz graphics core (min. at P0) 2430 MHz memory
GPU base clock	3504 MHz (min. at P0)
Estimated Maximum Power	47 W
Display Support	eDP/mDP/HDMI/Type-C
Maximum Color Depth	Up to 10bit/color
Maximum Vertical Refresh Rate	Up to 395Hz at 1920x1080 Up to 118Hz at 3840x2160
Operating Systems Graphics/ Video API Support	DirectX 12, OpenGL 4.5
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 four displays

NVIDIA Quadro P620

Table 26. NVIDIA Quadro P620

NVIDIA Quadro P620	
PCIe slot width	1
Memory (GDDR5)	2 GB
Open GL	4.5
Open CL	
DirectX	11.2
Vulcan	
PCIe support	x16 Gen 3
Max Resolution (# of DisplayPorts used)	5120x2880 24bpp @ 60hz
Maximum Monitors using DP Multi-Stream (monitor to monitor connections)	4
Maximum monitors (direct connection)	4
Max # of 4Kx2K displays @ 60hz	4
Max # of 5120x2880 pixel displays @ 60hz	2
Video connectors	mini-DisplayPort x 4; DisplayPort x 4
Included video adapters (with systems or customer kits)	
Aux power connectors needed	
Maximum power	40 W

NVIDIA Quadro P400

Table 27. NVIDIA Quadro P400

NVIDIA Quadro P400	
PCIe slot width	1
Memory (GDDR5)	2 GB
Open GL	4.5
Open CL	
DirectX	11.2
Vulcan	
PCIe support	x16 Gen3
Max Resolution (# of DisplayPorts used)	5120x2880 24bpp @ 60hz
Maximum Monitors using DP Multi-Stream (monitor to monitor connections)	3

NVIDIA Quadro P400

Maximum monitors (direct connection)	3
Max # of 4Kx2K displays @ 60hz	3
Max # of 5120x2880 pixel displays @ 60hz	3
Video connectors	mini-DisplayPort x 3
Included video adapters (with systems or customer kits)	
Aux power connectors needed	
Maximum power	30 W

Radeon Pro WX 4100

Table 28. Radeon Pro WX 4100

Radeon Pro WX 4100

PCIe slot width	1
Memory (GDDR5)	4 GB
Open GL	4.5
Open CL	2.0
DirectX	12.0
Vulkan	Yes
PCIe support	x16 Gen3
Max Resolution (# of DisplayPorts used)	5120 x 2880 30bpp @ 60hz
Maximum Monitors using DP Multi-Stream (monitor to monitor connections)	4
Maximum monitors (direct connection)	4
Max # of 4Kx2K displays @ 60hz	4
Max # of 5120x2880 pixel displays @ 60hz	1
Video connectors	DisplayPort x 4
Included video adapters (with systems or customer kits)	
Aux power connectors needed	
Maximum power	50 W

Radeon Pro WX 3100

Table 29. Radeon Pro WX 3100

Radeon Pro WX 3100

PCIe slot width	1
Memory (GDDR5)	4 GB
Open GL	4.5
Open CL	2.0
DirectX	12.0
Vulcan	
PCIe support	x16 Gen3
Max Resolution (# of DisplayPorts used)	<ul style="list-style-type: none">• 5120 x 3200, 24bpp, 60Hz• 3840 x 4320, 24bpp, 60Hz (half 8K)
Maximum Monitors using DP Multi-Stream (monitor to monitor connections)	5
Maximum monitors (direct connection)	3
Max # of 4K x 2K displays @ 60hz	4
Max # of 5120 x 2880 pixel displays @ 60hz	1
Video connectors	miniDP x 2 +DisplayPort x 1
Included video adapters (with systems or customer kits)	
Aux power connectors needed	
Maximum power	50 W

Radeon Pro WX 2100

Table 30. Radeon Pro WX 2100

Radeon Pro WX 2100

PCIe slot width	1
Memory (GDDR5)	2 GB
Open GL	4.5
Open CL	2.0
DirectX	12.0
Vulcan	
PCIe support	x16 Gen3
Max Resolution (# of DisplayPorts used)	<ul style="list-style-type: none">• 5120 x 3200, 24bpp, 60Hz• 3840 x 4320, 24bpp, 60Hz (half 8K)

Radeon Pro WX 2100

Maximum Monitors using DP Multi-Stream (monitor to monitor connections)	5
Maximum monitors (direct connection)	3
Max # of 4K x 2K displays @ 60hz	4
Max # of 5120 x 2880 pixel displays @ 60hz	1
Video connectors	miniDP x 2 + DisplayPort x 1
Included video adapters (with systems or customer kits)	
Aux power connectors needed	
Maximum power	50 W

Supported hard drives

2.5 inches 500 GB 7200 RPM SATA Hard Drive

Table 31. 2.5 inches 500GB 7200RPM SATA Hard Drive

Capacity (GB)	500 GB HDD 7200 RPM
Dimensions (W x D x H)	Approximately (2.76 x 3.959 x 0.276 inches)
Interface type and maximum speed	Up to 6Gb/s (SATA 3.0)
MTBF	550,000 hours
Logical blocks	976,773,168
Power source	
Power consumption (reference only)	Idle 0.7 W, Active 3.10 W
Environmental Operating Conditions (Non-Condensing)	
Temperature range	5°C to 60°C
Relative humidity range	5% to 90%
Op shock (@ 2ms)	350G
Environmental Non-Operating Conditions (Non-Condensing)	
Temperature range	-40°C to 65°C
Relative humidity range	5% to 90%

2.5 inch 500 GB 7200 RPM OPAL SED FIPS

Table 32. 2.5 inch 500 GB 7200 RPM OPAL SED FIPS

2.5 inch 500 GB 7200 RPM OPAL SED FIPS	
Capacity (bytes)	500 GB 7200 OPAL SED FIPS
Dimensions inches (W x D x H)	Approximately (2.75 x 3.937 x 0.276 inches)
Interface type and Maximum speed	Up to 6Gb/s (SATA 3.0)
MTBF	550,000 hours
Logical Blocks	976,773,168
Power Source	
Power Consumption (reference only)	Idle 0.7 W, Active 3.25 W
Environmental Operating Conditions (Non-condensing)	
Temperature Range	5°C to 60°C
Relative Humidity Range	5% to 90%
Op Shock (@2ms)	350 G
Environmental Non-Operating Conditions (Non-condensing)	
Temperature Range	-40°C to 65°C
Relative Humidity Range	5% to 95%

1TB solid-state hybrid drive -SSHD

Table 33. 2.5 inch 1 TB solid-state hybrid drive

Capacity (GB)	1 TB
Dimensions inches (W x D x H)	4.0 X 4 X 0.7825 inch
Interface type and maximum speed	SATA 6Gb/s and 600MB/s
Logical blocks	3,907,029,168
Power consumption (reference only)	Write/Read/idle: 0.9 Watt, 2.7 Watt
Environmental operating conditions (non-condensing)	
Temperature range	0° to 60°C
Relative humidity range	5% to 95% non-condensing (30% per hour max)
Op Shock (@2 ms)	400 Gs at 2 ms max
Environmental non-operating (non-condensing)	
Temperature range	-40° to 70°C
Relative humidity range	5% to 95% non-condensing (30% per hour max)

2.5 inch 1TB SATA 7200 RPM Hard Disk Drive

Table 34. 2.5 inch 1TB SATA 7200 RPM Hard Disk Drive

Capacity (TB)	1TB HDD 7200 RPM
Dimensions (inches) (W x D x H)	2.760 x 3.959 x 0.374
Interface type and Maximum speed	Up to 6Gb/s (SATA 3.0)
MTBF	550,000 hours
Logical Blocks	1,953,525,168

Power Source:

Power Consumption (reference only)	Idle 0.7W, Active 3.10 W
------------------------------------	--------------------------

Environmental Operating Conditions (Non-Condensing):

Temperature Range	5°C to 60°C
Relative Humidity Range	5 to 90%
Op Shock (@2ms)	350G

Environmental Non-Operating Conditions (Non-Condensing):

Temperature Range	-40°C to 65°C
Relative Humidity Range	5% to 95%

2.5 inch 2TB SATA 5400 RPM Hard Disk Drive

Table 35. 2.5 inch 2TB SATA 5400 RPM Hard Disk Drive

Capacity (GB)	2 TB
Dimensions inches (W x D x H)	2.75 X 3.951 X 0.276 inch
Interface type and maximum speed	SATA 6Gb/s and 140MB/s
Logical blocks	3,907,029,168
Power consumption (reference only)	Write/Read/idle:1.8W/1.7W/0.5W

Environmental operating conditions (non-condensing)

Temperature range	0° to 60°C
Relative humidity range	5% to 95%
Op Shock (@2 ms)	400 Gs at 2 ms max

Environmental non-operating (non-condensing)

Temperature range	-40° to 70°C
Relative humidity range	5% to 95%

2.5 inch 256GB SATA Class 20 Solid State Drive

Table 36. 2.5 inch 256GB SATA Class 20 Solid State Drive

Capacity (TB)	256GB
Dimensions (inches) (W x D x H)	2.75 x 3.94 x 0.268
Interface type and Maximum speed	Up to 6Gb/s (SATA 3.0)
MTBF	800K hours
Logical Blocks	500,118,192

Power Source:

Power Consumption (reference only)	Idle 0.5W, Active 2.5W
------------------------------------	------------------------

Environmental Operating Conditions (Non-Condensing):

Temperature Range	0°C to 70°C
Relative Humidity Range	10 to 90%
Op Shock (@2ms)	1,000G

Environmental Non-Operating Conditions (Non-Condensing):

Temperature Range	-40°C to 70°C
Relative Humidity Range	5% to 95%

2.5 inch 360G Intel SATA SSD

Table 37. 2.5 inch 360G Intel SATA SSD

Capacity (TB)	360 GB
Dimensions (inches) (W x D x H)	2.75 x 3.94 x 0.268
Interface type and Maximum speed	Up to 6Gb/s (SATA 3.0)
MTBF	1.2 million hours
Logical Blocks	500,118,192

Power Source:

Power Consumption (reference only)	Idle 55 mW, Active 165 mW
------------------------------------	---------------------------

Environmental Operating Conditions (Non-Condensing):

Temperature Range	0°C to 70°C
Relative Humidity Range	10 to 90%
Op Shock (@2ms)	1,000G

Environmental Non-Operating Conditions (Non-Condensing):

Temperature Range	-40°C to 70°C
Relative Humidity Range	5% to 95%

2.5 inch 512GB SATA Class 20 Solid State Drive

Table 38. 2.5 inch 512GB SATA3 Class 20 Solid State Drive

Capacity (TB)	512GB
Dimensions (inches) (W x D x H)	2.75 x 3.94 x 0.268
Interface type and Maximum speed	Up to 6Gb/s (SATA 3.0)
MTBF	800K hours
Logical Blocks	1,000,215,216

Power Source:

Power Consumption (reference only)	Idle 0.5W, Active 2.5W
------------------------------------	------------------------

Environmental Operating Conditions (Non-Condensing):

Temperature Range	0°C to 70°C
Relative Humidity Range	10 to 90%
Op Shock (@2ms)	1,500G

Environmental Non-Operating Conditions (Non-Condensing):

Temperature Range	-40°C to 70°C
Relative Humidity Range	5% to 95%

512 GB M.2 2280 SATA Class 20 SSD SED

Table 39. 512 GB M.2 2280 SATA Class 20 SSD SED

Capacity (GB)	512
Dimensions mm (W x D x H)	22 x 80 x 2.38
Interface type and Maximum speed	Up to 6 Gb/s (SATA 3.0)
MTFF	1.4M hours
Logical Blocks	1,000,215,216

Power Source:

Power Consumption (reference only)	Idle 1.7W, Active 4.5W
------------------------------------	------------------------

Environmental Operating Conditions (Non-Condensing):

Temperature Range	0°C to 70°C
Relative Humidity Range	10% to 90%
Op Shock (@0.5ms)	1,500G

Environmental Non-Operating Conditions (Non-Condensing):

Temperature Range	-40°C to 70°C
Relative Humidity Range	5% to 95%

3.5 inch 500GB SATA 7200 RPM Hard Disk Drive

Table 40. 3.5 inch 500GB SATA 7200 RPM Hard Disk Drive

Detail	Specification
Capacity (GB)	500GB HDD 7200RPM
Dimensions (inches) (W x D x H)	5.79 x 4 x 1
Interface type and Maximum speed	Up to 6Gb/s (SATA 3.0)
MTBF	550,000 hours
Logical Blocks	976,773,168
Power Source:	
Power Consumption (reference only)	Idle 5W, Active 10 W
Environmental Operating Conditions (Non-Condensing):	
Temperature Range	5°C to 60°C
Relative Humidity Range	5 to 90%
Op Shock (@2ms)	65G
Environmental Non-Operating Conditions (Non-Condensing):	
Temperature Range	-40°C to 65°C
Relative Humidity Range	5% to 95%

3.5 inch 1TB SATA3 7200 RPM Hard Disk Drive

Table 41. 3.5 inch 1TB SATA3 7200 RPM Hard Disk Drive

Capacity (TB)	1TB HDD 7200RPM
Dimensions (inches) (W x D x H)	5.79 x 4 x 1
Interface type and Maximum speed	Up to 6Gb/s (SATA 3.0)
MTBF	550,000 hours
Logical Blocks	1,953,525,168
Power Source:	
Power Consumption (reference only)	Idle 5W, Active 10 W
Environmental Operating Conditions (Non-Condensing):	
Temperature Range	5°C to 60°C
Relative Humidity Range	5 to 90%

Op Shock (@2ms)	65G
Environmental Non-Operating Conditions (Non-Condensing):	
Temperature Range	-40°C to 65°C
Relative Humidity Range	5% to 95%

3.5 inch 2TB SATA 7200 RPM Hard Disk Drive

Table 42. 3.5 inch 2TB SATA7200 RPM Hard Disk Drive

Capacity (TB)	2TB HDD 7200RPM
Dimensions (inches) (W x D x H)	5.79 x 4 x 1
Interface type and Maximum speed	Up to 6Gb/s (SATA 3.0)
MTBF	550,000 hours
Logical Blocks	3,907,029,168
Power Source:	
Power Consumption (reference only)	Idle 5 W, Active 10 W
Environmental Operating Conditions (Non-Condensing):	
Temperature Range	5°C to 60°C
Relative Humidity Range	5 to 90%
Op Shock (@2ms)	65G
Environmental Non-Operating Conditions (Non-Condensing):	
Temperature Range	-40°C to 65°C
Relative Humidity Range	5% to 95%

3.5 inch 4TB 5400 RPM Hard Disk Drive

Table 43. 3.5 inch 4TB 5400 RPM Hard Disk Drive

3.5 inch 4TB 5X00 RPM HDD

Capacity (bytes)	4TB HDD 5X00RPM
Dimensions inches (W x D x H)	Approximately (5.79 x 4.0 x 1.0 inches)
Interface type and maximum speed	Up to 6Gb/s (SATA 3.0)
MBTF	550,000 hours
Logical Blocks	7,814,037,168
Power Source	
Power consumption (reference only)	Idle 5W, Active 10 W
Environmental Operating Conditions (Non-condensing)	
Temperature Range	5°C to 60°C

3.5 inch 4TB 5X00 RPM HDD

Relative Humidity Range	5% to 90%
Op Shock (@2ms)	65 G

Environmental Non-Operating Conditions (Non-condensing)

Temperature Range	-40°C to 65°C
Relative Humidity Range	5% to 95%

256 GB M.2 2280 PCIe Class 40 SSD

Table 44. 256 GB M.2 2280 PCIe Class 40 SSD

Capacity (GB)	256
Dimensions mm (W x D x H)	22 x 80 x 2.38
Interface type and Maximum speed	PCIe Gen3 8 Gb/s (up to 4 lanes)
MTFF	1.4M hours
Logical Blocks	500,118,192

Power Source:

Power Consumption (reference only)	Idle 1.7W, Active 4.5W
------------------------------------	------------------------

Environmental Operating Conditions (Non-Condensing):

Temperature Range	0°C to 70°C
Relative Humidity Range	10% to 90%
Op Shock (@0.5ms)	1,500G

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 Class 40 SSD

Table 45. 512 GB M.2 2280 PCIe Class 40 SSD

Capacity (GB)	512
Dimensions mm (W x D x H)	22 x 80 x 2.38
Interface type and Maximum speed	PCIe Gen3 8 Gb/s (up to 4 lanes)
MTFF	1.4M hours
Logical Blocks	1,000,215,216

Power Source:

Power Consumption (reference only)	Idle 1.7W, Active 4.5W
------------------------------------	------------------------

Environmental Operating Conditions (Non-Condensing):

Temperature Range	0°C to 70°C
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Relative Humidity Range	10% to 90%
Op Shock (@0.5ms)	1,500G
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 Class 40 SSD SED

Table 46. 512 GB M.2 2280 PCIe Class 40 SSD SED

Capacity (GB)	512
Dimensions mm (W x D x H)	22 x 80 x 2.38
Interface type and Maximum speed	PCIe Gen3 8Gb/s (up to 4 lanes)
MTFF	1.4M hours
Logical Blocks	1,000,215,216
Power Source:	
Power Consumption (reference only)	Idle 1.7W, Active 4.5W
Environmental Operating Conditions (Non-Condensing):	
Temperature Range	0°C to 70°C
Relative Humidity Range	10% to 90%
Op Shock (@0.5ms)	1,500G
Environmental Non-Operating Conditions (Non-Condensing):	
Temperature Range	-40°C to 70°C
Relative Humidity Range	5% to 95%

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

Table 47. M.2 512 GB PCIe NVMe Class 50 Solid State Drive

Capacity (TB)	512GB
Dimensions (inches) (W x D x H)	22 x 80 x 2.38
Interface type and Maximum speed	PCIe Gen3 8Gb/s (up to 4 lanes)
MTBF	800K hours
Logical Blocks	1,000,215,216
Power Source:	
Power Consumption (reference only)	Idle 1.7W, Active 4.5W
Environmental Operating Conditions (Non-Condensing):	

Temperature Range	0°C to 70°C
Relative Humidity Range	10 to 90%
Op Shock (@2ms)	1,000G

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 Class 40 SSD

Table 48. 1 TB M.2 2280 PCIe Class 40 SSD

Capacity (GB)	1024
Dimensions mm (W x D x H)	22 x 80 x 3.73
Interface type and Maximum speed	PCIe Gen3 8 Gb/s (up to 4 lanes)
MTFF	1.4M hours
Logical Blocks	2,000,409,264

Power Source:

Power Consumption (reference only)	Idle 1.7W, Active 4.5W
------------------------------------	------------------------

Environmental Operating Conditions (Non-Condensing):

Temperature Range	0°C to 70°C
Relative Humidity Range	10% to 90%
Op Shock (@0.5ms)	1,500G

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 Class 50 SSD

Table 49. 1 TB M.2 2280 PCIe Class 50 SSD

Capacity (GB)	1024
Dimensions mm (W x D x H)	22 x 80 x 3.73
Interface type and Maximum speed	PCIe Gen3 8 Gb/s (up to 4 lanes)
MTFF	1.4M hours
Logical Blocks	2,000,409,264

Power Source:

Power Consumption (reference only)	Idle 1.7W, Active 4.5W
------------------------------------	------------------------

Environmental Operating Conditions (Non-Condensing):

Temperature Range	0°C to 70°C
Relative Humidity Range	10% to 90%
Op Shock (@0.5ms)	1,500G
Environmental Non-Operating Conditions (Non-Condensing):	
Temperature Range	-40°C to 70°C
Relative Humidity Range	5% to 95%

2 TB M.2 2280 PCIe Class 40 SSD

Table 50. 2 TB M.2 2280 PCIe Class 40 SSD

Capacity	2 TB
Dimensions mm (W x D x H)	22 x 80 x 3.73
Interface type and Maximum speed	PCIe Gen3 8 Gb/s (up to 4 lanes)
MTFF	1.4M hours
Logical Blocks	2,000,409,264

Power Source:

Power Consumption (reference only)	Idle 1.7W, Active 4.5W
------------------------------------	------------------------

Environmental Operating Conditions (Non-Condensing):

Temperature Range	0°C to 70°C
Relative Humidity Range	10% to 90%
Op Shock (@0.5ms)	1,500G

Environmental Non-Operating Conditions (Non-Condensing):

Temperature Range	-40°C to 70°C
Relative Humidity Range	5% to 95%

Communications

Communications - Integrated

Intel Ethernet Connect i219-LM

Table 51. Integrated Intel Ethernet Connect i219-LM

External Connector Type	RJ45
Data Rates supported	10/100/1000 Mbps
Controller Details	
Controller Bus Architecture	PCI Express Base Specification Revision

Integrated Memory	N/A
Data Transfer Mode (example: Bus-Master DMA)	N/A
Power Consumption (full operation per data rate connection speed)	542 mW (Max.)
Power Consumption (standby operation)	76 mW (Max.)
IEEE Standards Compliance	802.3
Hardware Certifications	N/A
Boot ROM Support	EEPROM (located in SPI)
Network Transfer Mode	
Network Transfer Rate	10 Mb (full/half-duplex)
10BASE-T (full-duplex) 20 Mbps	100 Mb (full/half-duplex)
100BASE-TX (half-duplex) 100 Mbps	1000 Mb (full-duplex)
Environmental	
Operating Temperature	0° C to 85° C (32° F to 185° F)
Operating Humidity	20% to 80% (non-condensing)
Operating System Driver Support	Windows 10 (64-bit), Ubuntu, Neokylin
Manageability	WOL, PXE 2.1
Management Capabilities Alerting	Intel Standard Manageability – must be selected at time of purchase

This term does not connote an actual operating speed of 1 Gb per sec. For high speed transmission, connection to a Gigabit Ethernet server and network infrastructure is required.

Wireless LAN options

Qualcomm QCA6174A Dual-band 2x2 802.11ac Wireless with MU-MIMO and Bluetooth 4.2

Table 52. Qualcomm QCA6174A

Host interface	M.2 2230 form factor (WiFi - PCIe , Bluetooth - USB)
Network standard	802.11a, 802.11b, 802.11g, 802.11n and 802.11ac
11ac Wave2 feature	MU-MIMO RX
Wi-Fi Alliance Certifications	802.11a, 802.11b, 802.11g, WPA, WPA2 , WMM, 11ac, Wifi -Direct, WMM-Power Save, Wifi Protected Setup, Voice-Personal
Operating Frequency Bands	2.4 GHz (802.11b/g/n) and 5 GHz (802.11a/n/ac)
Dual Diversity Antenna Switching	Dual diversity antenna switching for systems designed with main and auxiliary antennas 2x2 MIMO operation when in 802.11n mode with 2x2 or greater Access Point

Data Rate	802.11ac - Up to 867 Mbps; 802.11n - Up to 450 Mbps; 802.11a/g - Up to 54 Mbps 802.11b - Up to 11 Mbps
Receive Sensitivity	802.11ac: -59 dBm @ 400 Mbps - 57dBm @ 866.7Mbps 802.11n/a: -67 dBm @ 300 Mbps -70 dBm @ 144.4Mbps 802.11g/a -75 dBm @ 54 Mbps 802.11b -85 dBm @ 11 Mbps
Security	Open, Shared, WPA, WPA-PSK, WPA2, WPA2-PSK
Authentication	EAP-TLS, EAP-TTLS (MSCHAPv2), PEAPv0(EAP-MS-CHAPv2)
Client Utility	Native Wi-Fi and Bluetooth Microsoft UI support
Software Support	Microsoft WHQL certified for Windows 7/8.1 and Windows® 10; Linux
Radio On/Off	Hardware and software on/off disables transmit and receive to comply with aviation in-flight restrictions
LED output	Wireless enable
Roaming	Seamless roaming between 802.11a, 802.11b, 802.11b/g, 802.11n and 802.11ac access points
Wake On Wireless	Supported when using Magic Packet over the Air
Miracast (WiFi Display)	Supports Miracast (WiFi Display) on Win8.1/10
Country Restrictions	All (except Tunisia)

Intel Wireless-AC 9560, Dual-band 2x2 802.11ac Wi-Fi with MU-MIMO and Bluetooth 5

Table 53. Intel Wireless-AC 9560

Host interface	M.2 2230 form factor (CNVio)
Network standard	IEEE 802.11a/b/g/n/ac, DL MU-MIMO, 160MHz channel use
Wi-Fi Alliance Certifications	Wi-Fi CERTIFIED* a/b/g/n/ac with wave 2 features, WMM*, WMM-PS*, WPA*, WPA2*, WPS2*, Protected Management Frames, Wi-Fi Miracast* as Source, and Wi-Fi Direct (For Microsoft Windows* only)
Operating Frequency Bands	2.4 GHz and 5 GHz
Data Rate	2.4GHz 40M: Up to 300 Mbps 5GHz 80M: Up to 867 Mbps 5GHz 160M: Up to 1.73 Gbps
Power consumption	WPA* and WPA2*, 802.1X (EAP-TLS, TTLS, PEAP,EAP-SIM, EAP-AKA, EAP-AKA')
Authentication	Open, Shared, WPA, WPA-PSK, WPA2, WPA2-PSK
Authentication Protocols	PAP, CHAP, TLS, GTC, MS-CHAP*, MS-CHAP*v2

Encryption	64-bit and 128-bit WEP, TKIP, 128-bit AES-CCMP
Product Safety	UL, C-UL, CB (IEC60950-1)
Management Capabilities Alerting	Support for Intel AMT
Government Compliance	FIPS, FISMA
Client Utility	Intel PRO/Set Wireless Software v20 and later
Antenna Diversity	Supported
Radio On/Off	Supported
Wake On Wireless	Supported
Wireless Display	Native Miracast support by Windows 10
Wireless PAN Standard	Dual Mode Bluetooth* 5, BLE (HW ready, SW depends on OS)
Bluetooth Data rates	Up to 3Mbps
Bluetooth Operating Frequency Bands	2.4GHz
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	Operating temperature 0° to + 50° C (Full performance at shield temperatures up to 80° C) Storage temperature of -40° to +70° C
Humidity	Up to 90% RH non-condensing (at temperatures of 25° C to 35° C)

Accessories

Audio and speakers

Table 54. Audio and speakers

Jabra Evolve 65 MS Stereo - Headset
Dell Wireless 360 Speaker System - AE715
Dell Stereo Speaker System - AX210 USB
Logitech C930e HD Webcam
Dell 2.1 Speaker System - AE415
Dell Performance USB Headset - AE2
Jabra PRO 935 USB MS Lync Headset
Logitech C920 HD Pro Webcam
Dell Professional Sound Bar - AE515
Dell 2.0 Speaker System - AE215
Plantronics Savi W440M-400 Series convertible wireless headset - DECT 6.0
Dell USB SoundBar - AC511
Bose Companion 2 Series III multimedia speaker system

Logitech C615 HD Webcam
Dell Pro Stereo Headset - UC350
Plantronics Voyager Focus UC B825-M headset for Microsoft Lync
Dell Pro Stereo Headset - UC150
Dell In Ear Stereo Headset - IE600
Dell Stereo Soundbar - AX510
Jabra Evolve 75

Cables, Dongles, and adapters

Table 55. supported cables, dongles, and adapters

C2G 6ft Displayport Cable With Latches M/M - Black
Dell Adapter - DisplayPort to HDMI 2.0 (4K)
Dell Adapter - DisplayPort to VGA
Dell Adapter - DisplayPort to DVI (Dual Link)
Dell Adapter - HDMI to VGA
C2G HDMI to DVI Adapter
Dell Adapter - HDMI to DVI
C2G 15ft Cat6 Snagless Unshielded (UTP) Network Patch Ethernet Cable
Dell Adapter - HDMI to VGA
Dell Adapter - Mini DisplayPort to DVI Single-Link
Dell Adapter - Mini DisplayPort to VGA
Dell Adapter - Mini DisplayPort to HDMI

External data storage

Table 56. External data storage

Dell USB Slim DVD +/- RW Drive - DW316
Western Digital My Passport Ultra 4TB , Black
Western Digital My Passport Ultra 2TB , Black
Western Digital My Passport Ultra 1TB , Black
Promise Pegasus3 PC Edition R4
Dell Portable SSD, USB-C 250GB
Dell Portable Thunderbolt 3 SSD, 1TB
Dell Portable Thunderbolt 3 SSD, 500GB

Input Devices

Table 57. Input Devices

Dell Business Multimedia Keyboard KB522	Optional
Dell Multimedia Keyboard KB216	Optional
Dell Smartcard Keyboard KB813	Optional
Dell Wireless Mouse WM326	Optional
Dell Wireless Keyboard and Mouse KM636	Optional
Dell Premier Wireless Keyboard WK717	Optional
Dell Premier Wireless Keyboard and Mouse KM717	Optional
Dell Premier Wireless Mouse WM527	Optional
Dell Laser Scroll USB 6-Buttons Silver and Black Mouse	Optional
Dell Optical Mouse MS116	Optional
Dell Palm Rest for KB216 and KM636	Optional

Monitors

Table 58. Supported monitors

Dell 55 Conference Room Monitor - C5517H
Dell 17 Monitor - E1715S
Dell 86 Touch Interactive Monitor - C8618QT
Dell 22 Monitor - D2216H
Dell 55 Touch Interactive Monitor - C5518QT
Dell 19 Monitor - E1916HV
Dell 19 Monitor - E1916HM
Dell 20 Monitor - E2016H
Dell 70 Touch Interactive Monitor - C7017T
Dell 22 Monitor - E2216HV
Dell 22 Monitor - E2216H
Dell 19 Monitor - E1916He
Dell 24 Monitor - E2417H
Dell Medical Review 22 Monitor - MR2217
Dell 23.8 Monitor - E2418HN
Dell 21.5 Monitor - E2218HN

Dell 19 Monitor - P1917S
Dell 20 Monitor - P2016
Dell 19 Monitor - E1916H
Dell 20 Monitor - E2016HV
Dell 22 Monitor - P2217
Dell 20 Monitor - E2016
Dell 24 Monitor - P2418D
Dell 22 Monitor - P2217H
Dell 24 Monitor - P2415Q
Dell 27 Monitor - P2715Q
Dell 23 Monitor - E2318HN
Dell 43 Multi-Client Monitor - P4317Q
Dell 24 Monitor - P2417H
Dell UltraSharp 27 Monitor - U2718Q
Dell UltraSharp 25 Monitor - U2518D
Dell UltraSharp 25 Monitor - U2518D
Dell UltraSharp 24 Monitor - U2415
Dell UltraSharp 24 Monitor - U2417HJ
Dell UltraSharp 24 Monitor - U2417H
Dell 20 Monitor - E2016HL
Dell UltraSharp 29 Monitor - U2917W
Dell Medical Review 24 Monitor - MR2416
Dell UltraSharp 30 Monitor - UP3017
Dell UltraSharp 25 Monitor - UP2516D
Dell 20 Monitor - P2017H
Dell 24 Touch Monitor - P2418HT
Dell UltraSharp 27 Monitor - U2717DA
Dell 27 Monitor - P2717H
Dell 23 Monitor - P2317H
Dell UltraSharp 27 Monitor - U2717D
Dell UltraSharp 27 Monitor - UP2718Q
Dell UltraSharp 27 Monitor - UP2716D
Dell UltraSharp 34 Monitor - U3417W
Dell UltraSharp 34 Monitor - U3415W
Dell UltraSharp 24 Monitor - U2417HA
Dell UltraSharp 24 Monitor - U2412M
Dell UltraSharp 24 Monitor - U2412M

Dell 19 Monitor - E1916HL
 Dell UltraSharp 32 Monitor - UP3216Q
 Dell UltraSharp 32 Monitor - UP3216Q
 Dell UltraSharp 38 Monitor - U3818DW
 Dell UltraSharp 24 Monitor - U2417HWi
 Dell 70 Conference Room Monitor - C7016H
 Dell UltraSharp 32 Monitor - UP3218K
 Dell 24 Monitor - P2416D
 Dell UltraSharp 24 Monitor - U2413
 Dell UltraSharp 25 Monitor - U2515H
 Dell UltraSharp 24 Monitor - U2414H
 Dell 23 Monitor - P2314T
 Dell UltraSharp 23 Monitor - UZ2315H
 Dell 20 Monitor - P2018H
 Dell UltraSharp 27 Ultrathin Monitor - U2719D
 Dell UltraSharp 24 Ultrathin Monitor - U2419H
 Dell 24 Monitor - P2418HZm
 Dell 22 Monitor - P2219H
 Dell 23 Monitor - P2319H
 Dell 24 Monitor - P2419H
 Dell UltraSharp 49 Multi-Client Monitor - U4919DW
 Dell UltraSharp 32 4K Monitor - U3219Q

Power

Table 59. Power specifications

	260W Platinum	200W Bronze or Platinum
Wattage	260W	200W
AC input voltage range	100 V AC-240 V AC	100 V AC-240 V AC
AC input current (low ac range / high ac range)	4.2 A/ 2.1 A	3.2A/1.6A
AC input frequency	50 Hz-60 Hz	50 Hz-60 Hz
AC holdup time (80% load)	16mS	16mS
Average efficiency (ESTAR 6.1 qualified)	EPA Platinum: 90-92-89% @ 20-50-100% load	EPA Platinum: 90-92-89% @ 20-50-100% load EPA Bronze: 82-85-82% @ 20-50-100% load

	260W Platinum	200W Bronze or Platinum
DC Parameters +12.0v output	12VA/16.5 A	12VA/16.5 A
	12VB/16 A	12VB/14 A
+12.0v auxiliary output	2.5 A	2.5 A
Max total power	260W	200W
BTUs/h (based on PSU max WT)	888 BTU	683 BTU
Power Supply Fan	60mm*25mm	60mm*25mm
ErP Lot6 Tier 2 0.5watt requirement	Yes	Yes
80Plus Certified	Yes	Yes
FEMP Standby Power Compliant	Yes	Yes

Printers

Table 60. Supported printers

- Dell Color Cloud Multifunction Printer - H625cdw
- Dell Color Multi-Function Printer E525w
- Dell Mono Multifunction Printer - B5465dnf
- Dell Multifunction Printer - E515dw
- Dell Smart Printer - S5830dn
- Dell Color Multifunction Printer - C5765dn

Projectors

Table 61. Supported projectors

- Dell Advanced Projector 4350
- Dell Advanced Projector S560T
- Dell Professional Projector 1550
- Dell Advanced Projector S560
- Dell Advanced Projector S560P

Mounting Options

Desktop All-in-One Stand Stands include custom cable cover, handle, and VESA adapter bracket.

OptiPlex Small Form Factor All-in-One Stand (Supports most 19"-27" monitors)

Getting help

Contacting Dell

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.

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:

- 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.