

System specifications

NOTE: Offerings may vary by region. The following specifications are only those required by law to ship with your computer. For more information about the configuration of your computer, go to Help and Support in your Windows operating system and select the option to view information about your computer.

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System information

Table 2. System information

Chipset	Intel C246 chipset
DRAM bus width	64-bit
FLASH EPROM	SP1 128 Mbits
PCIe bus	8 GHz
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 3. Processor specifications

Type	UMA Graphics
Intel Xeon E Processor E-2186G (6 Core HT, 12MB Cache, 3.8Ghz, 4.7Ghz Turbo)	Intel UHD Graphics 630
Intel Xeon E Processor E-2174G (4 Core HT, 8MB Cache, 3.8Ghz, 4.7Ghz Turbo)	Intel UHD Graphics 630
Intel Xeon E Processor E-2146G (6 Core HT, 12MB Cache, 3.5Ghz, 4.5Ghz Turbo)	Intel UHD Graphics 630
Intel Xeon E Processor E-2136 (6 Core HT, 12MB Cache, 3.3Ghz, 4.5Ghz Turbo)	None
Intel Xeon E Processor E-2124G (4 Core, 8MB Cache, 3.4Ghz, 4.5Ghz Turbo)	Intel UHD Graphics 630
Intel Xeon E Processor E-2124 (4 Core, 8MB Cache, 3.4Ghz, 4.5Ghz Turbo)	None
Intel Core Processor i7-8700K (6 Core , 12MB Cache, 3.7Ghz, 4.7Ghz Turbo w/ HD Graphics 630)	Intel UHD Graphics 630
Intel Core Processor i7-8700 (6 Core, 12MB Cache, 3.20Ghz, 4.6Ghz Turbo w/ HD Graphics 630)	Intel UHD Graphics 630
Intel Core Processor i5-8600 (6 Core,9MB Cache, 3.1Ghz, 4.3Ghz Turbo w/ HD Graphics 630)	Intel UHD Graphics 630
Intel Core Processor i5-8500 (6 Core,9MB Cache, 3.0Ghz, 4.1Ghz Turbo w/ HD Graphics 630)	Intel UHD Graphics 630
Intel Core Processor i3-8100 (4 Core, 6MB Cache, 3.6Ghz w/ HD Graphics 630)	Intel UHD Graphics 630
Intel Gold G5400 (2 Core, 4MB Cache, 3.7Ghz w/ HD Graphics 630)	Intel UHD Graphics 630

Memory

Table 4. Memory specifications

Minimum memory configuration	4 GB
Maximum memory configuration	64 GB
Number of slots	4 UDIMM slots
Maximum memory supported per slot	16 GB
Memory options	<ul style="list-style-type: none"> • 4 GB - 1 x 4 GB (NECC only) • 8 GB - 1 x 8 GB, 2 x 4GB (NECC only) • 16 GB - 2 x 8 GB, 4 x 4 GB (NECC only) • 32 GB - 2 x 16 GB, 4 x 8GB

Type	DDR4 SDRAM or ECC memory
Speed	<ul style="list-style-type: none"> • 2666 MHz (6 Cores) • 2400 MHz (4 Cores)

Storage

Table 5. Storage specifications

Type	Form factor	Interface	Security option	Capacity
One Solid-State Drive (SSD)	M.2 2280 PCIe x4	<ul style="list-style-type: none"> • SATA AHCI, Up to 6 Gbps • PCIe 3 x 4 NVME, Up to 32 Gbps 	Yes, with SED drives	Up to 2 TB
One 2.5 inch Hard-Disk Drive (HDD)	Approximately (2.760 x 3.959 x 0.374 inches)	SATA AHCI, Up to 6 Gbps	Yes, with SED/FIPS HDD	Up to 2 TB
One 2.5 inch Solid-State Drive (SSD)	Approximately (2.760 x 3.959 x 0.374 inches)	SATA AHCI, Up to 6 Gbps	NONE	Up to 1 TB
One 3.5 inch Hard-Disk Drive (HDD)	Approximately (4.00 x 1.00 x 0.984 inches)	SATA AHCI, Up to 6 Gbps	NONE	Up to 4 TB
Zoom2 card	M.2 2280 PCIe x4	PCIe x 4 up to 32 Gbps	NONE	Up to 2 TB

Storage Matrix

Table 6. Storage combinations

Primary/Boot drive	Secondary drive
M.2 Drive	Upto 3x 3.5" / 4x 2.5" SATA SSD/HDD / PCIe SSD M.2 Interposer Card
2.5 inch Drive	Upto 2x 3.5" / 3x 2.5" SATA SSD/HDD /1 x M.2 Drive /PCIe SSD M.2 Interposer Card
3.5 inch Drive	Upto 2x 3.5" / 3x 2.5" SATA SSD/HDD /1 x M.2 Drive / PCIe SSD M.2 Interposer Card

Audio

Table 7. Audio specifications

Controller	Integrated Realtek ALC3234
Type	Two-channel high-definition audio
Speakers	One

Interface

- Universal audio jack (Rear)
- Stereo headset/mic combo (Front)

Internal speaker amplifier

2 W

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	Supported on all CPU configurations (except Intel Xeon E E-2124, 2126 Processors)	Integrated	Shared system memory	DisplayPort X 2	4096 × 2304
NVIDIA Quadro P Series (P5000, P4000, P2000, P1000, P620, P400)	Discrete	NA	GDDR5/ GDDR5X	2 GB - 16 GB	Upto four DisplayPort (DP 1.4) DVI-I	4096 × 2304
GeForce 10 series(GTX 1080/1060)	Discrete	NA	GDDR5/ GDDR5X	6 GB / 8 GB	DVI-D HDMI 2.0 3x DP1.3 (DP 1.4 ready)	4096 × 2304
AMD Radeon Pro WX Series (2100, 3100, 4100, 5100, 7100) and RX580	Discrete	NA	GDDR5	2 GB / 8 GB	DP1.3 2-4 mini-DP	4096 × 2304

NOTE: Graphics cards with power rating equals to or more than 75 Watts requires a 6-pin and/or 8-pin power connector dongle.

Communication

Table 9. Communication specifications

Network adapter

Wireless

Intel® Dual Band Wireless-AC 9260 (Thunder Peak 2) 802.11AC 2x2 Wi-Fi + BT 5 LE M.2 Wireless Card

Qualcomm QCA9377 dual band WiFi and Bluetooth Card

Add-in cards

1 GB NIC, 2.5 GB/5 Gb NIC

RJ45 Network adapter

Intel® Ethernet Connection I219 Series

Ports and connectors

Table 10. Ports and connectors

Memory card reader	Optional SD 4.0 media card reader
Smart card reader	Optional
USB	<ul style="list-style-type: none">• Two USB 2.0 Type-A port(Front)• One USB 3.1 Gen 2 Type-C port (Front)• One USB 3.1 Type-A port (Front)• Four USB 3.1 Gen 1 port (Rear, with SmartPower)• Two USB 2.0 ports (Rear, with SmartPower)
Security	Noble Wedge/Kensington lock slot
Audio	Universal audio jack (Front / Rear)
Video	<ul style="list-style-type: none">• DisplayPort/HDMI/VGA/USB Type-C (optional)• Two x DisplayPort
Network adapter	One RJ-45 connector
Serial port	One serial port
PS/2	<ul style="list-style-type: none">• Mouse• Keyboard

Media card-reader

Table 11. Media-card reader specifications

Type	Push-Pull type with USB 3.0 interface
Supported cards	<ul style="list-style-type: none">• SD• SDHC• SDXC• UHS-I• UHS-II

Power Supply

Table 12. Power Specifications

Energy efficient power supply	Internal
80 plus bronze certification	300 W EPA bronze (No SD)
80 plus gold certification	300 W (no SD) and 460 W (w/SD)

Customer replaceable unit	Yes
Recyclable packaging	Optional, US only
MultiPack packaging	No

Physical system dimensions

Table 13. Physical system dimensions

Chassis volume (liters)	20.41
Chassis weight (pounds / kilograms)	23.37/10.6

Table 14. Chassis dimensions

Height (inches / centimeters)	13.03/33.10
Width (inches / centimeters)	6.95/ 17.66
Depth (inches / centimeters)	13.58 /34.50
Shipping weight (pounds / kilograms – includes packaging materials)	33/14.97

Table 15. Packaging parameters

Height (inches / centimeters)	18.5/47
Width (inches / centimeters)	13.9/35.3
Depth (inches / centimeters)	14.37/49.2

Computer environment

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

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

Table 16. Computer environment

	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 80 % (non-condensing)	10 % to 95 % (non-condensing)
	NOTE: Maximum dew point temperature = 26 °C	NOTE: Maximum dew point temperature = 33 °C
Vibration (maximum)	0.26 GRMS	1.37 GRMS

	Operating	Storage
Shock (maximum)	40 G [‡]	105 G [†]
Altitude (maximum)	- 15.2 m to 3048 m (- 50 ft to 10,000 ft)	- 15.2 m to 10,668 m (- 50 ft to 35,000 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.

‡ Measured using a 2 ms half-sine pulse when the hard-drive head is in parked position.

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