

**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.

## System information

Table 3. System information

Feature	Specifications
Chipset	Intel Chipset
DRAM bus width	64-bit
FLASH EPROM	24 MB / 32 MB
PCIe bus	100 Mhz

## Processor

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

Table 4. Processor specifications

Type	UMA Graphics
8th Generation Intel core i5-8265U Processor (Quad Core (QC), 6M SmartCache, base frequency 1.6 GHz, up to 3.9 GHz)	Intel UHD Graphics 620 (8th Generation Intel Core)
8th Generation Intel core i7-8565U Processor (QC, 8M SmartCache, base frequency 1.8 GHz, up to 4.8 GHz)	Intel UHD Graphics 620 (8th Generation Intel Core)
8th Generation Intel core i5-8365U Processor (QC, 6M SmartCache, base frequency 1.6 GHz, up to 4.1 GHz)	Intel UHD Graphics 620 (8th Generation Intel Core)

## Memory

Table 5. Memory specifications

Feature	Specifications
Minimum memory configuration	4 GB
Maximum memory configuration	32 GB
Number of slots	Two SoDIMM

Feature	Specifications
Memory options	<ul style="list-style-type: none"> <li>4 GB - 1 x 4 GB</li> <li>8 GB - 1 x 8 GB</li> <li>8 GB - 2 x 4 GB</li> <li>16 GB - 1 x 16 GB</li> <li>16 GB - 2 x 8 GB</li> <li>32 GB - 2 x 16 GB</li> </ul>
Type	DDR4
Speed	2400 MHz

## Storage

**Table 6. Storage specifications**

Type	Form factor	Interface	Capacity
Solid-state drive	M.2 2280	PCIe / SATA	Up to 1 TB
Solid-state drive	M.2 2230 (With bracket)	PCIe	128 GB
Self Encrypting Drive (SED) / Opal SED	M.2 2280	PCIe NVMe	256 GB

## Media card-reader

**Table 7. Media card-reader specifications**

Feature	Specifications
Type	One micro-SD card slot
Supported cards	<ul style="list-style-type: none"> <li>SD</li> <li>SDHC</li> <li>SDXC</li> </ul>

## Audio

**Table 8. Audio specifications**

Feature	Specifications
Controller	Realtek ALC3254 with Waves MaxxAudio Pro
Type	Two-channel high-definition audio
Speakers	Two (Directional speakers)
Interface	Intel HDA bus
Internal speaker amplifier	2 W (RMS) per channel

# Video card

Table 9. Video card specifications

Controller	Type	CPU Dependency	Graphics memory type	Capacity	External display support	Maximum resolution
Intel UHD Graphics 620	UMA	<ul style="list-style-type: none"><li>8th Gen Intel Core i5 processor</li><li>8th Gen Intel Core i7 processor</li></ul>	Integrated	Shared system memory	HDMI 1.4b	4096 x 2304

# Camera

Table 10. Camera specifications

Feature	Specifications	
	RGB camera:	IR camera
Resolution	<ul style="list-style-type: none"><li>Still image: 0.92 megapixels</li><li>Video: 1280 x 720 at 30 fps</li></ul>	<ul style="list-style-type: none"><li>Still image: 0.92 megapixels</li><li>Video: 1280 x 720 at 30 fps</li></ul>
Diagonal viewing angle	<ul style="list-style-type: none"><li>Diagonal <math>&gt;/ 86.7^\circ</math> (tolerance <math>\pm 3\%</math>)</li><li>Vertical <math>&gt;/ 47^\circ</math></li></ul>	
Number of cameras		1 / 0
Video Max resolution		1280 x 720 (HD) at 30 FPS
Still image max resolution		0.92 megapixel (1280 x 720)

# Ports and connectors

Table 11. Ports and connectors

Features	Specifications
Memory card reader	micro-SD 4.0 memory card reader (optional)
USB	<ul style="list-style-type: none"><li>One USB Type-C 3.1 Gen 2 port (Thunderbolt)</li><li>Two USB Type-A 3.1 Gen 1 ports (one PowerShare capable)</li></ul>
Security	<ul style="list-style-type: none"><li>Noble Wedge lock slot</li><li>Smart card reader (optional)</li></ul>
Docking port	Dell USB 3.0 Dock (UNO)
Audio	Universal audio jack (Headset Jack + microphone-in + line-in support)
Video	HDMI 1.4a

# Wireless

## Wireless LAN card specifications

Table 12. Wireless LAN card specifications

### Wireless card options

Qualcomm QCA61x4A 802.11ac Dual Band (2x2) Wireless Adapter + Bluetooth 4.2 (non vPro)

Intel Dual-Band Wireless-AC 9560 Wi-Fi + Bluetooth 5.0 Wireless Card (2x2)(vPro)(Bluetooth Optional)

Intel Wi-Fi 6 AX200 2x2 .11ax 160MHz + Bluetooth 5.0

## WWAN card specifications

Table 13. Wireless WAN card specifications

### Wireless card option

Mobile Broadband Qualcomm Snapdragon X20 Global Gigabit LTE (Optional)

# Display

Table 14. Display specifications

Feature	Specifications
Type	<ul style="list-style-type: none"><li>14-inch HD AG (WXGA 1366x768), 220 nits, non-touch display</li><li>14-inch FHD AG (1920 x 1080), 300 nits, non-touch display</li><li>14-inch FHD AG (1920 x 1080), 300 nits, non-touch display with Dynamic Privacy Dell SafeScreen</li><li>14-inch FHD AG (1920 x 1080), 300 nits, touch display</li></ul>
Height (Active area)	173.95 mm (6.84 in)
Width (Active area)	309.4 mm (12.18 in)
Diagonal	355.6 mm (14.0 in)
Luminance/Brightness (typical)	220 nits (Super Low Power) / 300 nits
Refresh rate	60 Hz

# Keyboard

Table 15. Keyboard specifications

Feature	Specifications
Number of keys	<ul style="list-style-type: none"><li>• 81 (U.S)</li><li>• 82 (UK)</li><li>• 82 (Brazil)</li><li>• 85 (Japan)</li></ul>
Size	Full sized <ul style="list-style-type: none"><li>• X= 19.05 mm key pitch</li><li>• Y= 19.05 mm key pitch</li></ul>
Backlit keyboard	Optional
Layout	QWERTY / AZERTY / Kanji

# Touchpad

Table 16. Touchpad specifications

Feature	Specifications
Resolution	1048 x 984
Dimensions	<ul style="list-style-type: none"><li>• Width: 3.91 inch (99.5 mm)</li><li>• Height: 2.08 inch (53 mm)</li></ul>
Multi-touch	Configurable single finger and multi-finger gestures

# 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](https://support.microsoft.com).

# Operating system

Table 17. Operating system

Feature	Specifications
Operating systems supported	<ul style="list-style-type: none"><li>• Windows 10 Home (64 bit)</li><li>• Windows 10 Pro (64 bit)</li><li>• Ubuntu</li></ul>

# Battery

Table 18. Battery specifications

Type	<ul style="list-style-type: none"><li>• Polymer 3-cell 42 WHr</li><li>• Polymer 4-cell 60 WHr</li><li>• Polymer 4-cell 60 WHr (LCL)</li></ul>
Dimension	<p>Polymer 3-cell 42 WHr</p> <ul style="list-style-type: none"><li>• Width: 95.9 mm (3.78 in)</li><li>• Length: 200.5 mm (7.89 in)</li><li>• Height: 5.7 mm (0.22 in)</li></ul> <p>Polymer 4-cell 60 WHr and LCL</p> <ul style="list-style-type: none"><li>• Width: 95.9 mm (3.78 in)</li><li>• Length: 238 mm (9.37 in)</li><li>• Height: 5.7 mm (0.22 in)</li></ul>
Weight (maximum)	<ul style="list-style-type: none"><li>• Polymer 3-cell 42 WHr: 192.5 g (0.42 lb)</li><li>• Polymer 4-cell and LCL: 270 g (0.60 lb)</li></ul>
Voltage	11.4 VDC
Life span	<ul style="list-style-type: none"><li>• Polymer 3-cell 42 WHr and 4-cell 60 WHr (Standard Pack): 300 discharge / charge cycles</li><li>• Polymer 4-cell 60 WHr (LCL): 1000 discharge / charge cycles</li></ul>
Charging time when the computer is off (approximate)	<ul style="list-style-type: none"><li>• Standard Charge: 0°C to 50°C : 4 hours</li><li>• Express Charge†:<ul style="list-style-type: none"><li>– 0°C to 15°C : 4 hours</li><li>– 16°C to 45°C : 2 hours</li><li>– 46°C to 50°C : 3 hours</li></ul></li></ul>
Operating time	Varies depending on operating conditions and can significantly reduce under certain power-intensive conditions
Temperature range: Operating	<ul style="list-style-type: none"><li>• Charging: 0°C to 50°C (32°F to 122°F)</li><li>• Discharging : 0°C to 70°C (32°F to 158°F)</li></ul>
Temperature range: Storage	-20°C to 60°C (-4°F to 140°F)
Coin-cell battery	CR 2032

**NOTE:** †For batteries with the ExpressCharge feature, the battery will typically have at least an 80% charge after about an hour of charging with the system off, and fully charged in about 2 hours with the system off.

Enabling ExpressCharge requires that both the computer and the battery used be ExpressCharge capable. If these requirements are not met, ExpressCharge will not be enabled.

# Power adapter

Table 19. Power adapter specifications

Feature	Specifications
Type	<ul style="list-style-type: none"><li>• E5 65 W 7.4 mm Barrel Adapter</li><li>• E5 65 W BFR/PVC Halogen Free adapter, 7.4 mm barrel</li><li>• E5 65 W Rugged Adapter 7.4 mm barrel (India only)</li><li>• E5 90 W 7.4 mm Barrel Adapter</li><li>• 65 W adapter, Type-C</li><li>• 90 W adapter, Type-C</li></ul>
Input Voltage	100 VAC - 240 VAC
Input current (maximum)	<ul style="list-style-type: none"><li>• 1.7 A for 65 W</li><li>• 2.5 A for 90 W</li></ul>
Input frequency	50 Hz to 60 Hz
Output current	<ul style="list-style-type: none"><li>• 3.34 A for 65 W</li><li>• 4.62 A for 90 W</li></ul>
Rated output voltage	19.5 VDC
Temperature range (Operating)	0°C to 40° C (32°F to 104°F)
Temperature range (Non-Operating)	40°C to 70°C (-40°F to 158°F)

## Dimensions and weight

Table 20. Dimensions and weight

Feature	Specifications	
	Aluminum (Al)	Carbon fibre (CF)
Height	Front - 16.75 mm(0.66 inch)	Front - 17.82 mm(0.70 inch)
	Rear - 18.20 mm(0.72 inch)	Rear - 18.96 mm(0.75 inch)
Width	321.35 mm(12.65 inch)	
Depth	214.08 mm (8.42 inch)	
Weight	1.4 kg(3.11 lb)	1.35 kg(2.99 lb)

## Computer environment

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

**Table 21. Computer environment**

	<b>Operating</b>	<b>Storage</b>
Temperature range	0°C to 40°C (32°F to 104°F)	-40°C to 65°C (-40°F to 149°F)
Relative humidity (maximum)	10% to 90% (non-condensing) <b>i</b>   <b>NOTE: Maximum dew point temperature = 26°C</b>	0% to 95% (non-condensing) <b>i</b>   <b>NOTE: Maximum dew point temperature = 33°C</b>
Vibration (maximum)	0.66 GRMS	1.30 GRMS
Shock (maximum)	140 G †	160 G‡
Altitude (maximum)	0 m to 3048 m (0 ft to 10,000 ft)	0 m to 10,668 m (0 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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