Technical specifications

System information

Table 3. System information

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

Туре	UMA Graphics
8th Generation Intel core i5-8265U Processor (Quad Core (QC), 6M SmartCache, base frequency 1.6 GHz, up to 3.9 GHz)	
8th Generation Intel core i7-8665U Processor (QC, 8M SmartCache, base frequency 1.9 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)	

Memory

Table 5. Memory specifications

Feature	Specifications
Minimum memory configuration	4 GB
Maximum memory configuration	32 GB
Number of slots	Two SoDIMM
Memory options	 4 GB - 1 x 4 GB 8 GB - 1 x 8 GB 8 GB - 2 x 4 GB 16 GB - 1 x 16 GB 16 GB - 2 x 8 GB 32 GB - 2 x 16 GB

Table 5. Memory specifications(continued)

Feature	Specifications
Туре	DDR4
Speed	2400 MHz

Storage

Table 6. Storage specifications

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

Media card-reader

Table 7. Media card-reader specifications

Feature	Specifications
Туре	One micro-SD card slot
Supported cards	SDSDHCSDXC

Audio

Table 8. Audio specifications

Feature	Specifications
Controller Realtek ALC3254 with Waves MaxxAudio Pro	
Туре	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	Туре	CPU Dependency	Graphics memory type	Capacity	External display support	Maximum resolution
Intel UHD Graphics 620	UMA	8th Gen Intel Core i5 processor 8th Gen Intel Core i7 processor	Integrated	Shared system memory	HDMI 1.4a	4096 x 2304

Camera

Table 10. Camera specifications

Feature	Specifications
Resolution	Still image: 0.92 megapixelsVideo: 1280 x 720 at 30 fps
Diagonal viewing angle	 Diagonal >/ 86.7° (tolerance +/- 3%) Vertical >/ 47°
Camera Options	 No Camera 6.0 mm RGB HD 6.0 mm RGB IR 3.0 mm RGB IR 2.7 mm RGB HD Ambient Light Sensor is only available with the 3mm IR camera option
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	One USB Type-C 3.1 Gen 2 port (Thunderbolt)Two USB Type-A 3.1 Gen 1 ports (one PowerShare capable)
Security	Noble Wedge lock slotSmart card reader (optional)
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	
Туре	 14-in. HD AG (WXGA 1366x768), 220 nits, non-touch display 14-in. FHD AG (1920 x 1080), 300 nits, non-touch display 14-in. FHD AG (1920 x 1080), 300 nits, non-touch display with Dynamic Privacy Dell SafeScreen 14-in. FHD AG (1920 x 1080), 255 nits, touch display 	
Height (Active area)	173.89 mm (6.85 in.)	
Width (Active area)	309.14 mm (12.18 in.)	
Diagonal	355.6 mm (14.0 in.)	
Luminance/Brightness (typical)	HD: 220 nits (Super Low Power) / FHD: 300 nits	
Refresh rate	60 Hz	

Keyboard

Table 15. Keyboard specifications

Feature	Specifications
Number of keys	81 (U.S)82 (UK)
	82 (Brazil) 85 (Japan)
	· 85 (Japan)

Table 15. Keyboard specifications(continued)

Feature	Specifications
Size	Full sized • X= 19.05 mm key pitch • Y= 19.05 mm key pitch
Backlit keyboard	Optional
Layout	QWERTY / AZERTY / Kanji

Touchpad

Table 16. Touchpad specifications

Feature	Specifications	
Resolution	1048 x 984	
Dimensions	Width: 3.91 inch (99.5 mm)Height: 2.08 inch (53 mm)	
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 at support.microsoft.com.

Operating system

Table 17. Operating system

Feature	Specifications	
Operating systems supported	Windows 10 Home (64 bit)Windows 10 Pro (64 bit)Ubuntu	

Battery

Table 18. Battery specifications

Туре	 Polymer 3-cell 42 WHr Polymer 4-cell 60 WHr Polymer 4-cell 60 WHr (LCL)
Dimension	Polymer 3-cell 42 WHr Width: 95.9 mm (3.78 in) Length: 200.5 mm (7.89 in) Height: 5.7 mm (0.22 in) Polymer 4-cell 60 WHr and LCL

Table 18. Battery specifications(continued)

	Width: 95.9 mm (3.78 in)Length: 238 mm (9.37 in)Height: 5.7 mm (0.22 in)
Weight (maximum)	Polymer 3-cell 42 WHr: 192.5 g (0.42 lb)Polymer 4-cell and LCL: 270 g (0.60 lb)
Voltage	11.4 VDC
Life span	 Polymer 3-cell 42 WHr and 4-cell 60 WHr (Standard Pack): 300 discharge / charge cycles Polymer 4-cell 60 WHr (LCL): 1000 discharge / charge cycles
Charging time when the computer is off (approximate)	 Standard Charge: 0°C to 50°C: 4 hours Express Charge[†]: 0°C to 15°C: 4 hours 16°C to 45°C: 2 hours 46°C to 50°C: 3 hours
Operating time	Varies depending on operating conditions and can significantly reduce under certain power-intensive conditions
Temperature range: Operating	Charging: 0°C to 50°C (32°F to 122°F)Discharging: 0°C to 70°C (32°F to 158°F)
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	
Туре	 E5 65 W 7.4 mm Barrel Adapter E5 65 W BFR/PVC Halogen Free adapter, 7.4 mm barrel E5 65 W Rugged Adapter 7.4 mm barrel (India only) E5 90 W 7.4 mm Barrel Adapter 65 W adapter, Type-C 90 W adapter, Type-C 	
Input Voltage	100 VAC - 240 VAC	
Input current (maximum)	1.7 A for 65 W2.5 A for 90 W	
Input frequency	50 Hz to 60 Hz	

Table 19. Power adapter specifications(continued)

Feature	Specifications
Output current	3.34 A for 65 W4.62 A for 90 W
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

	Operating	Storage
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) NOTE: Maximum dew point temperature = 26°C	0% to 95% (non-condensing) i NOTE: Maximum dew point temperature = 33°C
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)

 $[\]ensuremath{^{*}}$ Measured using a random vibration spectrum that simulates user environment.

 $[\]dagger$ Measured using a 2 ms half-sine pulse when the hard drive is in use.