Technical 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.

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

Feature	Specifications	
Memory options	 4 GB - 1 x 4 GB 8 GB - 1 x 8 GB 8 GB - 2 x 4 GB 16 GB - 1 x16 GB 	
Туре	 16 GB - 2 x 8 GB 32 GB - 2 x 16 GB DDR4 	
Speed	2400 MHz	

Storage

Table 6. Storage specifications

Туре	Form factor	Interface	Capacity
Solid-state drive	M.2 2280	PCIe / 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	 SD SDHC SDXC

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 	Integrated	Shared system memory	HDMI 1.4a	4096 x 2304
		8th Gen Intel Core i7 processor				

Camera

Table 10. Camera specifications

Feature	Specifications
Resolution	 Still image: 0.92 megapixels Video: 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)	

Features	Specifications
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	 13.3-in. HD AG (WXGA 1366x768), 220 nits, non-touch display 13.3-in. FHD AG (1920 x 1080), 300 nits, non-touch display 13.3-in. FHD AG (1920 x 1080), 300 nits, non-touch display with Dynamic Privacy Dell SafeScreen 13.3-in. FHD AG (1920 x 1080), 255 nits, touch display
Height (Active area)	165.24 mm (6.5 in.)
Width (Active area)	293.76 mm (11.55 in.)
Diagonal	 HD: 337.08 mm (13.27 in.) FHD: 337.04 mm (13.26 in.)
Luminance/Brightness (typical)	HD: 220 nits (Super Low Power) / FHD: 300 nits

Refresh rate

Specifications

60 Hz

Keyboard

Table 15. Keyboard specifications

Feature	Specifications
Number of keys	 81 (U.S) 82 (UK) 82 (Brazil) 85 (Japan)
Size	 Full sized X= 18.05 mm key pitch Y= 18.05 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	
	• 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 	
	Polymer 4-cell 60 Whit (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 W 2.5 A for 90 W
Input frequency	50 Hz to 60 Hz
Output current	 3.34 A for 65 W 4.62 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 - 16.57 mm (0.65 inch)	Front - 17.42 mm(0.69 inch)	
	Rear- 17.52 mm(0.70 inch)	Rear- 18.45 mm(0.73 inch)	
Width	306.5 mm (12.07 inch)		
Depth	206.95 mm (8.15 inch)		
Weight	1.3 Kg (2.88 lb)	1.24 Kg (2.75 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)	0% to 95% (non-condensing)
	(i) NOTE: Maximum dew point temperature = 26°C	(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)

* 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.