

# Technical specifications

**NOTE:** Offerings may vary by region. For more information regarding the configuration of your computer in:

- Windows 10, click or tap Start  > Settings > System > About.

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## Processor

Your system is built with Intel Dual and Quad Core processors.

Table 2. Processor specifications

Processors Support List

Intel® Core™ i3-7130U (Dual Core, 3M Cache, 2.7GHz,15W)	UMA Graphics Intel® HD Graphics 620
Intel® Core™ i5-7300U (Dual Core, 3M Cache, 2.6GHz,15W, vPro)	Intel® HD Graphics 620
Intel® Core™ i5-8250U (Quad Core, 6M Cache, 1.6GHz,15W)	Intel® UHD Graphics 620
Intel® Core™ i5-8350U (Quad Core, 6M Cache, 1.7GHz,15W, vPro)	Intel® UHD Graphics 620
Intel® Core™ i7-8650U ( Quad Core, 8M Cache, 1.9GHz,15W, vPro)	Intel® UHD Graphics 620

## Memory

Your computer supports a maximum of 32 GB of memory.

Table 3. Memory specifications

Minimum Memory Configuration	4 GB
Maximum Memory Configuration	32 GB
Number of slots	2 (SoDIMM)



Maximum memory supported per slot	16 GB
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 — 2 x 8 GB</li> <li>• 16 GB — 1 x 16 GB</li> <li>• 32 GB — 2 x 16 GB</li> </ul>
Type	DDR4
Speed	<ul style="list-style-type: none"> <li>• 2400 MHz for 8th Gen Processor</li> <li>• 2133 MHz for 7th Gen Processor</li> </ul>

## Storage specification

**i** | **NOTE:** Depending on the configuration you order, you will see either a HDD or M.2 PCIe SSD in your system.

Feature	Specification
Storage:	<ul style="list-style-type: none"> <li>• HDD: 2.5 inch up to 1 TB, Hybrid, OPAL SED options</li> <li>• SSD M.2 2280 SATA: up to 512 GB, OPAL SED options</li> <li>• SSD M.2 2230 PCIe/NVMe : up to 512GB</li> <li>• SSD M.2 2280 PCIe x2 NVMe: up to 1 TB, OPAL SED options</li> <li>• Dell Fast Response Free Fall Sensor and HDD Isolation (standard feature)</li> </ul>

## Audio specifications

Feature	Specification
Types	High-definition audio
Controller	Realtek ALC3246
Internal interface	<ul style="list-style-type: none"> <li>• Universal Audio Jack</li> <li>• High Quality Speakers</li> <li>• Noise reducing array microphones</li> <li>• Volume control buttons, supports hot-key keyboard button</li> </ul>
External interface	Stereo headset/mic combo
Feature	Specification
Speakers	Two
Volume controls	Hot keys

## Video specification integrated



Feature	Specification
Type	Integrated on system board, hardware accelerated
DSC controller	<ul style="list-style-type: none"> <li>Intel HD Graphics 620</li> <li>Intel UHD Graphics 620</li> </ul>
Data bus	Integrated video
External display support	<ul style="list-style-type: none"> <li>Integrated Graphics configurations supports HDMI 1.4 and Discrete graphics configurations support HDMI 2.0</li> <li>VGA connector</li> </ul>

## Discrete

Feature	Specification
Type	Discrete
UMA controller	NVIDIA GeForce® MX130, GDDR5
Bus type	Internal PCIe 3.0

## Camera option

This topics lists out the detailed camera specifications for your system.

Table 4. Camera specification

Camera type	HD fixed focus
IR Camera	Optional
Sensor type	CMOS sensor technology
Resolution: Motion video	Up to 1280 X 720 (1 MP)
Resolution: Still image	Up to 1280 X 720 (1 MP)
Imaging rate	Up to 30 frames per second

**NOTE:** The system is offered with no camera in one of the configurations.

## Ports and Connectors

Table 5. Ports and Connectors

USB	Three USB 3.1 Gen 1 (one with PowerShare) One DisplayPort over USB Type-C.
Video	One VGA, HDMI 1.4 (UMA) / HDMI 2.0 (Discrete)
Network	One RJ-45
Modem	NA
Expansion	SD 4.0 Memory card reader
Smart Card Reader	Yes (optional)



Touch Fingerprint Reader	Yes (optional)
Contactless card reader	Yes (optional)
Audio	Universal Audio Jack
	High Quality Speakers
	Noise reducing array microphones
	Volume control buttons, supports hot-key keyboard button
Docking	DisplayPort over USB Type C™ Noble Wedge Lock slot

## Contactless smart card

Feature	Specification
Supported Smart	FIPS 201 Contacted Smart Card Cards/Technologies

## Display specification

Feature	Specification
Type	options: <ul style="list-style-type: none"> <li>FHD WVA (1920 x 1080) Anti-glare (16:9) WLED</li> <li>HD (1366 x 768) Anti-glare (16:9) WLED</li> <li>FHD WVA (1920 x 1080) Embedded Touch Display with Truelife (OTP Lite)</li> </ul>
Size	14 inches
Luminance/ Brightness (typical)	220 nits
Native Resolution	1366 x 768 / 1920 x 1080
Feature	Specification
Refresh Rate	60 Hz
Horizontal Viewing	+/- 40 degrees Angle
Vertical Viewing	+10/- 30 degrees Angle

## Keyboard specifications

Table 6. Keyboard specifications

Number of keys	82 (US), 83 (UK), 84 (BZ), 86 (JP)
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Size	Full sized X= 19.05 mm key pitch Y= 19.05 mm key pitch
Backlit keyboard option	Yes (optional)

## Keyboard hot key definitions

Table 7. Keyboard hot key definitions

Fn Key Combination	Function
Fn+ESC	Fn Toggle
Fn+ F1	Speaker Mute
Fn + F2	Volume Down
Fn + F3	Volume Up
Fn + F4	Mic Mute
Fn + F5	Num Lock
Fn + F6	Scroll Lock
Fn + F8	Display Toggle (Win + P)
Fn + F9	Search
Fn + F10	Keyboard backlight on/off
Fn + F11	Brightness down
Fn + F12	Brightness up
Fn + Insert	Sleep
Fn + Print Screen	Wireless on/off
Fn + left arrow	Home
Fn + right arrow	End

FnKey Mode:

Standard = The F1-F12 keys behave as function keys. Holding <Fn> is required to access their secondary functions.



# Touch pad specifications

Table 8. Touch Pad specifications

Dimensions	Width: 101.7mm
	Height: 55.2mm
Interface	Inter-Integrated Circuit
Multi-Touch	Support 4 fingers

Table 9. Supported gestures

Supported Gestures	Windows 10
Cursor moving	Supported
Clicking/ tapping	Supported
Click and drag	Supported
2-finger scroll	Supported
2-finger Pinch/ Zoom	Supported
2-finger tap (Right Clicking)	Supported
3-finger tap (Invoke Cortana)	Supported
3-finger swipe up (See all open windows)	Supported
3-finger swipe down (Show the desktop)	Supported
3-finger swipe right or left (Switch between open windows)	Supported
4-finger tap (Invoke Action Center)	Supported
4-finger swipe right or left (Switch virtual desktops)	Supported

## Battery specifications

Feature	Specification
Type	<ul style="list-style-type: none"><li>• 42 WHr</li><li>• 51 WHr</li><li>• 68 WHr</li><li>• 4 cell Long Cycle Life Battery</li></ul>
42 Whr	<ul style="list-style-type: none"><li>• Length: 181mm (7.126 inch)</li></ul>



- Width: 95.9mm (3.78 inch)
- Height: 7.05mm (0.28 inch)
- Weight: 210.00 g

51 Whr

- Length: 181mm (7.126 inch)
- Width: 95.9mm (3.78 inch)
- Height: 7.05mm (0.28 inch)
- Weight: 250.00 g

68 Whr

- Length: 233mm (9.17 inch)
- Width: 95.9mm (3.78 inch)
- Height: 7.05mm (0.28 inch)

Voltage

- Weight: 340.00 g

42 WHr	11.4 VDC
51 WHr	11.4 VDC
68 WHr	7.6 VDC

Life span

300 discharge/recharge cycles

Temperature range

Operating

- Charge: 0°C to 50°C (32°F to 122°F)
- Discharge: 0°C to 70°C (32°F to 158°F)
- Operating: 0°C to 35°C (32°F to 95°F)

Non-operating

- 20°C to 65°C (- 4°F to 149°F)

Coin cell battery

3 V CR2032 lithium coin cell

## AC Adapter specifications

Feature	Specification
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Type

- 65 W adapter, 7.4 mm barrel
- 65 W BFR/PVC Halogen Free adapter, 7.4 mm barrel

Feature

Specification

- 90 W adapter, 7.4 mm barrel

Input voltage

100 V AC to 240 V AC

Input current



(maximum)	<ul style="list-style-type: none"> <li>65 W adapter - 1.7 A</li> <li>65 W BFR/PVC Halogen Free adapter - 1.7 A</li> <li>90 W adapter - 1.6 A</li> </ul>
Adapter size	7.4 mm
Input frequency	50 Hz to 60 Hz
Output current	<ul style="list-style-type: none"> <li>65 W adapter - 3.34 A (continuous)</li> <li>65 W BFR/PVC Halogen Free adapter - 3.34 A (continuous)</li> <li>90 W adapter - 4.62 A (continuous)</li> </ul>
Rated output voltage	19.5 V DC

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)

## System dimensions

Table 10. System dimensions

		Touch
Weight (pounds/kilogram)		Start from 3.52 lb / 1.60 kg
Dimensions inches		
	Height	Touch system: <ul style="list-style-type: none"> <li>Front – 20.3 mm (0.8 inch)</li> <li>Back – 20.5 mm (0.8 inch)</li> </ul> Non-touch system: <ul style="list-style-type: none"> <li>Front – 20.3 mm (0.8 inch)</li> <li>Back – 20.5 mm (0.8 inch)</li> </ul>
	Width	333.4 mm (13.1 inch)
	Depth	228.9 mm (9.0 inch)

## Operating Conditions

This topics lists the operating conditions of your system.

Table 11. Operating conditions

### Temperature Range

- Operating: 0 °C to 35 °C (32 °F to 95 °F)
- Storage: -40 °C to 65 °C (-40 °F to 149 °F)

### Relative humidity

- Operating : 10 % to 90 % (non-condensing)



- Storage: 0% to 95% (non-condensing)

#### Altitude (maximum)

- Operating : 3048 m (10,000 ft)
- Storage: 10668 m (35,000 ft)

#### Shock

- Operating: 160 G with pulse duration of 2 ms (equivalent to 80 in/sec)
- Storage: 160 G with pulse duration of 2 ms (equivalent to 80 in/ sec)

#### Vibration

- Operating: 0.66 Grms
- Storage: 1.33 Grms

