




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**.
- Windows 8.1 and Windows 8, click or tap **Start**  > **PC Settings** > **PC and devices** > **PC Info**.
- Windows 7, click **Start** , right-click **My Computer**, and then select **Properties**.

Topics:

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System specifications

Feature	Specification
DRAM bus width	64 bits
Flash EPROM	16 MB

Processor specifications

Feature	Specification
Type	6th Generation Intel i3, i5 and i7
L1 cache	64 KB
L2 cache	256 KB
L3 cache	Up to 4 MB

Memory specifications

Feature	Specification
Memory connector	two internally accessible DDR3L connectors
Memory capacity	4 GB and 8 GB
Memory type	1600 MHz (dual channel DDR3L configuration)
Minimum memory	4 GB
Maximum memory	16 GB (8x2) GB

Audio specifications

Feature	Specification
Types	4 channel high definition audio
Controller	Realtek ALC3234
Stereo conversion	24-bit (analog-to-digital and digital-to-analog)
Interface	Intel HDA bus
Speakers	2 W x 2 W
Volume controls	Program menu and keyboard media-control keys

Video specifications

Feature	Specification
Video Type	Integrated on system board/discrete
UMA controller	Intel HD 520 Graphics 6th Generation Core i3, i5, and i7
Discrete controller	GT920M
Data bus	64 bits

Camera specifications

Feature	Specification
Camera resolution	0.92 megapixels
Video resolution	1280x720 at 30 fps (maximum)
Diagonal viewing angle	74°

 **NOTE: The RGB + IR camera is for Windows Hello application only and other applications cannot use it.**

Communication specifications

Features	Specification
Network adapter	10/100/1000 Mbps Ethernet LAN on Motherboard (LOM)

Features	Specification
Wireless	Wi-Fi 802.11 b/g/n and 802.11a/b/g/n/ac

Port and connector specifications

Feature	Specification
Audio	one headphone/microphone combo port (headset)
Video	<ul style="list-style-type: none"> · one 15-pin VGA port · one 19-pin HDMI port
Network adapter	one RJ-45 port
USB	<ul style="list-style-type: none"> · two USB 3.0 ports (left one with window debug) · one USB 2.0 port

NOTE: The powered USB 3.0 connector also supports Microsoft Kernel Debugging. The ports are identified in the documentation shipped with your computer.

Media card reader	SD card
Memory card reader	one (SD, SDHC, SDXC)
Fingerprint reader	one (optional)

Display specifications

Feature	Specification
Type	14.0 inches HD WLED
Height	205.60 mm
Width	320.90 mm
Diagonal	14.0 inches
Active area (X/Y)	309.40 mm x 173.95 mm (12.18 inches x 6.85 inches)
Maximum resolution	1366 x 768 pixels (HD) & 1920 x 1080 pixels (FHD)
Typical brightness	200 nits
Operating angle	0° (closed) to Min 135°
Refresh rate	60 Hz
Minimum viewing angle horizontal	40°/40°
Minimum viewing angle vertical	10°/30°
Pixel pitch	0.265 mm x 0.265 mm
External display	VGA

Keyboard specifications

Feature	Specification
Number of keys	US 101, Brazil 104, UK 102, and Japan 105

Touchpad specifications

Feature	Specification
Active Area:	
X-axis	104.00 mm (4.09 inches)
Y-axis	64.00 mm (2.52 inches)

Battery specifications

Feature	Specification
Type	<ul style="list-style-type: none">4-cell smart lithium ion (40 W)6-cell smart lithium ion (66 W)
Height	<ul style="list-style-type: none">4-cell — 7.05 mm6-cell — 7.05 mm
Width	<ul style="list-style-type: none">4-cell — 124.7 mm6-cell — 124.7 mm
Depth	<ul style="list-style-type: none">4-cell — 208.25 mm6-cell — 208.25 mm
Weight	<ul style="list-style-type: none">4-cell — 283 g6-cell — 350 g
Voltage	<ul style="list-style-type: none">4-cell — 7.4 VDC6-cell — 11.1 VDC
Life span	300 discharge/charge cycles
Temperature range:	
Operating	0 °C to 50 °C (32 °F to 122 °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
Type	65 W and 90 W
Input voltage	100 V AC to 240 V AC
Input current (maximum)	1.50 A/ 1.60 A/ 1.70 A/ 2.50 A
Input frequency	50 Hz to 60 Hz
Output current	3.34 A/ 4.62 A
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)

Physical specifications

Feature	Specification
Height (non-touch)	23.25 mm (0.91 inches)
Height (touch)	23.25 mm (0.91 inches)
Width (non-touch)	260.00 mm (10.23 inches)
Width (touch)	260.00 mm (10.23 inches)
Depth (non-touch)	380.00 mm (14.96 inches)
Depth (touch)	380.00 mm (14.96 inches)
Minimum weight (non-touch)	2.06 kg (4.54 lbs)
Minimum weight (touch)	2.06 kg (4.54 lbs)

Environmental specifications

Temperature	Specifications
Operating	0°C to 35°C (32°F to 95°F)
Storage	-40°C to 65°C (-40°F to 149°F)
Relative humidity (maximum)	Specifications
Operating	10 % to 90 % (non condensing)
Storage	10 % to 95 % (non condensing)

**Altitude
(maximum)**

Specifications

Operating

-15.2 m to 3048 m (-50 ft to 10,000 ft)

Non-operating

-15.2 m to 10,668 m (-50 ft to 35,000 ft)

**Airborne
contaminant level**

G1 as defined by ISA-S71.04-1985