


System specifications

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.

System specifications

Feature	Specification
Chipset	Intel Kaby Lake (integrated with the processor)
DRAM bus width	64-bit
Flash EPROM	SPI 128 Mbits

Processor specifications

Feature	Specification
Types	<ul style="list-style-type: none">• 8th Gen Intel® Core™ Processors up to i7, U Quad Core• 7th Gen Intel® Core™ Processors up to i5, U Dual Core
L3 cache i3	
U-series	<ul style="list-style-type: none">• 3 MB
i5 U-series	<ul style="list-style-type: none">• 3 MB - 6 MB
i7 U-series	<ul style="list-style-type: none">• 8 MB

Memory specifications

Feature	Specification
Memory connector	Two SODIMM slots
Memory capacity	4 GB, 8 GB, and 32 GB
Memory type	DDR4 SDRAM
Speed	<ul style="list-style-type: none">• 2400 MHz non ECC for 8th Gen processors• 2133 MHz non ECC for 7th Gen processors
Minimum memory	4 GB

Feature	Specification
Maximum memory	32 GB

Storage specifications

Feature	Specification
SSD M.2 2280 / PCIe NVMe	up to 512GB, OPAL SED options /up to 1TB, OPAL SED options /PCIe x2 NVMe M.S 2230 /
HDD	up to 1TB, Hybrid, OPAL SED options

Audio specifications

Feature	Specification
Types	High-definition audio
Controller	Realtek ALC3246
Stereo conversion	Digital audio-out through HDMI — up to 7.1 compressed and uncompressed audio
Internal interface	High-definition audio codec
External interface	Stereo headset/mic combo
Speakers	2
Internal speaker amplifier	2 W (RMS) per channel
Volume controls	Hot keys

Video specifications

Feature	Specification
Type	Integrated on system board, hardware accelerated
Graphic cards	Intel® HD Graphics 620 (Integrated in Intel 7th core processors) Intel® UHD Graphics 620 (Integrated in Intel 8th core processors) NVIDIA GeForce® MX130, 2GB GDDR5
Data bus	Integrated video
External display support	<ul style="list-style-type: none"> 19-pin HDMI connector 15-pin VGA connector DisplayPort over USB Type-C connector

Camera specifications

Feature	Specification
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Feature	Specification
Camera resolution	1 megapixels
HD Panel Resolution	1280 x 720 pixels
FHD Panel Resolution	1280 x 720 pixels
HD Panel Video Resolution (maximum)	1280 x 720 pixels
FHD Panel Video Resolution (maximum)	1280 x 720 pixels
Diagonal viewing angle	74°

Communication specifications

Features	Specification
Network adapter	10/100/1000 Mb/s Ethernet (RJ-45)
Wireless	<ul style="list-style-type: none"> Internal wireless local area network (WLAN) Internal Wireless wide area network (WWAN)

Port and connector specifications

Feature	Specification
Audio	Stereo headset / mic combo
Video	<ul style="list-style-type: none"> HDMI 1.4 (UMA)/ HDMI 2.0 (Discrete) 15 pin VGA connector
Network adapter	One RJ-45 connector
USB	Three USB 3.1 Gen 1 (one with PowerShare),
Memory card reader	SD 4.0 Memory card reader
Micro SIM (uSIM) card	external micro SIM card tray
USB port	It has one option: <ul style="list-style-type: none"> One Display Port over USB Type C

Contactless smart card specifications

Feature	Specification
Supported Smart	BTO with USH Cards/Technologies



Feature Specification

Display specifications

Feature	Specification
Type	<ul style="list-style-type: none">• Non-touch HD• Non-touch FHD• Touch FHD with Embedded Touch
Height	360 mm (14.17 inches)
Width	224.3 mm (8.83 inches)
Diagonal	396.24 mm (15.6 inches)
Active area (X/Y)	344.23 mm x 193.54 mm
Actual screen size	15.6 inches
Touch FHD antiglare:	
Maximum resolution	1920 x 1080
Maximum brightness	300 nits
Refresh rate	60 Hz
Maximum viewing angles (horizontal)	+80/-80 angles
Maximum viewing angles (vertical)	+80/-80
Pixel pitch	0.161 mm (0.00634 inches)
HD anti-glare:	
Maximum resolution	1366 x 768
Maximum brightness	200 nits
Refresh rate	60 Hz
Maximum viewing angles (horizontal)	40/40
Maximum viewing angles (vertical)	+10/-30
Pixel pitch	0.2265 mm (0.0089 inches)

Keyboard specifications

Feature	Specification
Number of keys	<ul style="list-style-type: none">• United States: 82 keys• United Kingdom: 83 keys<ul style="list-style-type: none">• Japan: 86 keys• Brazil: 84 keys



Feature Specification

Touchpad specifications

Feature Specification

Active Area:

X-axis 101.7mm

Y-axis 55.2mm

Battery specifications

Feature Specification

Type 4 cell Long Cycle Life Battery

Typical Amp-hour capacity 3.684Ahr

Typical Amp-hour capacity 4.473Ahr

Battery specifications : 68 WHr/4 cell Long Cycle Life Battery

Depth 233.00 mm (9.17 inches)

Height 7.5 mm (0.28 inch)

Width 95.90 mm (3.78 inches)

Weight 340 g (0.74 lb)

Voltage 7.6 V DC

Typical Amp-hour capacity 8.947Ahr

Temperature range

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

Operating

- 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

Type 65 W/90 W

Input voltage 100 V AC to 240 V AC

Input current (maximum) 1.7 A / 1.6 A

Input frequency 50 Hz to 60 Hz



Feature	Specification
Output current	3.34 A (continuous) / 4.62 A (continuous)
Rated output voltage	19.5 +/- 1.0 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)
Barrel size	7.4mm

Physical specifications

Feature	Specification
Front height	<ul style="list-style-type: none"> • Non Touch - 20.6 mm (0.8 inch) • Touch - 21.65 mm (0.8 inch)
Back height	<ul style="list-style-type: none"> • Non Touch - 23.25 mm (0.9 inch) • Touch - 24.3 mm(0.9 inch)
Width	<ul style="list-style-type: none"> • 376.0 mm (14.8 inches)
Depth	<ul style="list-style-type: none"> • 250.7 mm (9.9 inches)
Starting weight	<ul style="list-style-type: none"> • 4.14 lbs (1.88 kg)



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 Specifications (maximum)

Operating	10 % to 90 % (non condensing)
Storage	5 % to 95 % (non condensing)

Altitude Specifications (maximum)

Operating	0 m to 3048 m (0 ft to 10,000 ft)
Non-operating	0 m to 10,668 m (0 ft to 35,000 ft)

Airborne contaminant level	G1 as defined by ISA-71.04-1985
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