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.

Topics:

Dimensions and weight

Table 2. Dimensions and weight

Height	11.4 inch (290 mm)
Width	3.6 inch (92.6 mm)
Depth	11.5 inch (293 mm)
Weight	19.7 lb (4.8 kg)

System information

Table 3. System information

Chipset	Intel H370
DRAM bus width	64-bit
FLASH EPROM	256Mbit

PCIe bus	100 Mhz
External bus frequency	DMI 3.0-8GT/s

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

Type	UMA Graphics
Intel 8th Generation Celeron processor G4900 (2M Cache, up to 3.1 GHz)	Intel UHD Graphics 610 with shared graphics memory
Intel 8th Generation Pentium Gold processor G5400 (4M Cache, up to 3.7 GHz)	Intel UHD Graphics 610 with shared graphics memory
Intel 8th Generation Core i3-8100 (6 MB Cache, up to 3.6 GHz)	Intel UHD Graphics 630 with shared graphics memory
Intel 8th Generation Core i5-8400 8th Generation Intel Core i5-8400 processor (9 MB Cache, up to 4.0 GHz)	Intel UHD Graphics 630 with shared graphics memory
Intel 8th Generation Core i7-8700 8th Generation Intel Core i7-8700 processor (12 MB Cache, up to 4.6 GHz)	Intel UHD Graphics 630 with shared graphics memory

Operating system

Table 5. Operating system

Operating systems supported	
	• Windows 10 64-bit
	• Windows 10 64-bit Professional
	• Windows 10 64-bit National Academic (STF)
	• Ubuntu 16.04 LTS (64-bit)

Memory

Table 6. Memory specifications

Minimum memory configuration	4 GB
Maximum memory configuration	32 GB
Number of slots	2 UDIMM
Maximum memory supported per slot	16 GB
Memory options	• 4 GB DDR4 2400 MHz (4Gx1) • 8 GB DDR4 2400 MHz (8Gx1) • 8 GB DDR4 2400 MHz (4Gx2) • 12 GB DDR4 2400 MHz (8Gx1 + 4Gx1)

- 16 GB DDR4 2400 MHz (8Gx2)
- 16 GB DDR4 2400 MHz (16Gx1)
- 24 GB DDR4 2400 MHz (16Gx1 + 8Gx1)
- 32 GB DDR4 2400 MHz (16Gx2)
- 4 GB DDR4 2666 MHz (4Gx1)
- 8 GB DDR4 2666 MHz (8Gx1)
- 8 GB DDR4 2666 MHz (4Gx2)
- 12 GB DDR4 2666 MHz (8Gx1 + 4Gx1)
- 16 GB DDR4 2666 MHz (8Gx2)
- 16 GB DDR4 2666 MHz (16Gx1)
- 24 GB DDR4 2666 MHz (16Gx1 + 8Gx1)
- 32 GB DDR4 2666 MHz (16Gx2)

ⓘ **NOTE: The memory modules are customer replaceable units (CRU), and it can be upgraded.**

ⓘ **NOTE:**
- Memory configuration of 2400 MHz pair with PDC, CDC, core i3 CPU
- Memory configuration of 2666 MHz pair with core i5, i7 CPU

Type	DDR4 SDRAM Non-ECC memory
Speed	- 2666 MHz on Core i5, i7 processor - 2400 MHz on Celeron, Pentium, and i3 processor

Ports and connectors

Table 7. Ports and connectors

USB	- Two USB 3.1 Gen 1 ports - Four USB 2.0 ports
Security	- Kensington lock slot - Padlock ring
Audio	- Headset port - Microphone port - Line-in port - Line-out port
Video	- HDMI 1.4 (UMA) - VGA port
Network adapter	One RJ-45 connector
Secure Digital card	SD card slot

Communications

Table 8. Communication specifications

Network adapter	Realtek RTL8111H Gigabit Ethernet controller 10/100/1000 Mb/s Ethernet (RJ-45)
Wireless	• Intel 9462 1*1 ac + BT5 (802.11ac + Bluetooth 5.0,1X1) • Intel 9560 2*2 ac + BT5 (802.11ac + Bluetooth 5.0,2x2) • DW 1707 + BT4.0 (802.11bgn + Bluetooth 4.0, 1x1) via M.2

Video

Table 9. Video

Controller	Type	CPU Dependency	Graphics memory type	Capacity	External display support	Maximum resolution
Intel UHD Graphics 630	UMA	Intel Core i3 - 8100 Intel Core i5 - 8400 Intel Core i7 - 8700	Integrated	Shared system memory	VGA HDMI 1.4	VGA: 2048x1536@60 Hz HDMI : 1920x1080@60Hz
Intel UHD Graphics 610	UMA	Intel Pentium Gold G5400 Celeron processor G4900	Integrated	Shared system memory	VGA HDMI 1.4	VGA: 2048x1536@60 Hz HDMI : 1920x1080@60Hz
NVIDIA GeForce GT 710	Discrete	N/A	DDR3	2 GB	DL-DVI HDMI VGA (FH only)	Dual Link DVI = 2560x1600 HDMI = 1920x1200 (PC Mode), 1920x1080 (TV mode, 1080p) VGA (optional) = 2048x1536

Audio

Table 10. Audio specifications

Controller	Waves MaxxAudio Pro
Type	Four-channel high-definition audio
Interface	• 3-stack audio jacks supporting 5.1 surround sound. • High-quality speakers

- Stereo headset/mic combo

Storage

Type	Form factor	Interface	Capacity
Solid-State Drive (SSD)	M.2 SATA 2280	SATA AHCI, Up to 6 Gbps	Up to 512 GB
Hard drive (HDD)	2.5 inch and 3.5 inch	SATA AHCI, Up to 6 Gbps	Up to 2 TB at 5400 RPM and 7200 RPM

Storage combinations

Table 12. Storage combinations

Type	Form factor
M.2 Drive + SATA	M.2 128GB Solid State Drive+ 1TB 7200 rpm Hard Drive

Power supply

Table 13. Power supply

Input Voltage	100-240VAC, 200-240VAC, 50–60 Hz
Input current (maximum)	200 W APFC High voltage 200 W APFC 100V-240V Full range 200 W EPA Bronze

Security hardware

Table 14. Security hardware

Security HW	- Data wipe via BIOS (Secure Erase) - Support of Computrace BIOS agent – supports both Computrace and Proactive Systems Management - Discrete TPM 2.0 (optional) - BIOS disable TPM (China Only) - Control Vault 2.0 Advanced authentication w FIPS 140-2 Level 3 Certificate

Regulatory and Environmental Compliance

Table 15. Regulatory and Environmental Compliance

Regulatory and Environmental Compliance	- Energy Star 6.1 (available in selected configurations only) - FCC, UL mark

- Silver EPEAT Registered (for selected configurations only). For specific country participation and rating, please visit **www.epeat.net**
- CCC/CECP (China only)
- ESPL/ 1 Million Hr MTBF (China only, Post-RTS)
- In metro (Brazil only)