Lenovo Q190 Platform Specifications

Processor

Intel® Mobile Celeron® or Pentium® Proceesor or Intel® Core™ i3 Processors

Processor	Cores / Threads	Base Frequency	Cache	Memory Types	Integrated Graphics
Celeron 1007U	2 / 2	1.5 GHz	2 MB	DDR3-1600	Intel HD Graphics
Celeron 1017U	2 / 2	1.6 GHz	2 MB	DDR3-1600	
Pentium 2117U	2 / 2	1.8 GHz	2 MB	DDR3-1600	
Pentium 2127U	2 / 2	1.9 GHz	2 MB	DDR3-1600	
Core i3-2365M	2 / 4	1.4 GHz	3 MB	DDR3-1333	Intel HD Graphics 3000
Core i3-3217U	2 / 4	1.8 GHz	3 MB	DDR3-1600	Intel HD Graphics 4000

Graphics

Intel HD Graphics or Intel HD Graphics 3000 or 4000 , intergrated in processor
External monitor support via analog VGA DB-15 connector / digital HDMI connector

Chipset

Mobile Intel HM70 Express Chipset or Mobile Intel HM76 Express Chipset

Memory

8GB max, PC3-12800 1600MHz DDR3, non-parity, one 204-pin SO-DIMM sockets.
System automatically clocks down for processors with 1333MHz DDR3 memory controller

Disk

Some: SATA 6.0Gb/s, 2.5" wide, 5400 rpm
Some: SATA 3.0Gb/s, 2.5" wide, 5400 rpm

SATA Controller

Serial ATA, SATA 6.0Gb/s support

Extranl optical

Some: DVD burner, dual-layer support, slot-in
Some: Blu-ray™ Disc reader (no Blu-ray burning), DVD recordable, slot-in

Ethernet

Gigabit ethernet on planar, Realtek RTL8111F-CG

WLAN

11b/g/n wireless, 1x1 WiFi

Weight

From 5.25 lb (2.38 kg) to 7.01 lb (3.18 kg), vary by confi guration

Dimensions

Models	Dimensions (WxHxD)
Model(s) without optical (excludes stand)	6.10" x 0.87" x 7.56"; 155mm x 22mm x 192mm
Model(s) with optical (excludes stand)	6.10" x 1.57" x 7.56" 155mm x 40mm x 192mm

Case color

Black and silver color

Stand

Detachable stand (silver color)

Mount bracket

Mount bracket, meets the VESA 75mm and 100mm mount standard

Multicard reader

6-in-1 reader (SD, SDHC, SDXC, MMC, MS, MS-Pro)

Front Ports

USB 3.0 x 2, microphone (stereo, 3.5mm) headphone (stereo, 3.5mm)

Rear Ports

USB 2.0 x 4, (external ODD occupies one dedicated USB 2.0 port on some models), ethernet RJ-45, VGA, HDMI, S/PDIF-out, Kensington® Security slot

Audio support

High Defi nition (HD) audio, Realtek® ALC662 codec

Keyboard

Some: Full-size keyboard (USB connector), Fn keys, black
Some: 2.4GHz wireless mini keyboard N5902, palm-sized dimensions, keyboard and mouse (optical finger navigation) combo, via micro-size USB receiver

Mouse

Some: Optical wheel mouse (USB connector), black

Camera

None

TV tuner

None

Security chip

None

Power supply

65-watt AC adapter

Limited warranty

1-year, limited service / service upgrades available

Preload

Windows® 8 64-bit, Windows® 8.1 64-bit, Windows 8.1 Professional 64-bit, or Windows 8.1 with bing 64-bit
Preinstalled software includes but not limited to the following:

- Lenovo® Rescue System
- CyberLink Power DVD (models with optical)
- Lenovo Cloud Storage by SugarSync
- Driver and Application Installation
- Adobe® Reader®
- Lenovo Support
- Lenovo Companion
- McAfee® LiveSafe™ (30-day trial)
- Microsoft Office preloaed; purchase product key to activate

Environment

ENERGY STAR® qualified, RoHS-compliant

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