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ASUS ROG G20AJ-4790 PC Intel® Core™ i7 i7-4790 16 GB DDR3-SDRAM 1,13 TB HDD+SSD NVIDIA® GeForce® GTX 980 Windows 8.1 Black, Red

Brand : ASUS **Product family:** ROG **Product code:** G20AJ-4790

Product name : G20AJ-4790

Intel Core i7-4790 (8M Cache, 3.6GHz), Intel HD Graphics 4600 + NVIDIA GeForce GTX 980, 16GB DDR3, 1TB HDD + 128GB SSD, DVD SM, Gigabit Ethernet, Windows 8.1
ASUS ROG G20AJ-4790. Processor frequency: 3,6 GHz, Processor family: Intel® Core™ i7, Processor model: i7-4790. Internal memory: 16 GB, Internal memory type: DDR3-SDRAM. Total storage capacity: 1,13 TB, Storage media: HDD+SSD, Optical drive type: DVD Super Multi. On-board graphics card model: Intel® HD Graphics 4600, Discrete graphics card model: NVIDIA® GeForce® GTX 980. Wi-Fi. Operating system installed: Windows 8.1. Product type: PC. Weight: 6,38 kg. Product colour: Black, Red

Processor

Processor manufacturer *	Intel
Processor family *	Intel® Core™ i7
Processor generation	4th gen Intel® Core™ i7
Processor model *	i7-4790
Processor cores	4
Processor threads	8
Processor boost frequency	4 GHz
Processor frequency *	3,6 GHz
Processor socket	LGA 1150 (Socket H3)
Processor cache	8 MB
Processor cache type	Smart Cache
System bus rate	5 GT/s
Bus type	DMI
FSB Parity	✗
Processor lithography	22 nm
Processor operating modes	32-bit, 64-bit
Processor series	Intel Core i7-4700 Desktop series
Processor codename	Haswell
Thermal Design Power (TDP)	84 W
Tcase	72,72 °C
PCI Express slots version	3.0
Maximum number of PCI Express lanes	16
PCI Express configurations	1x16, 2x8, 1x8+2x4
Number of processors installed	1
Stepping	C0
Maximum internal memory supported by processor	32 GB
Memory types supported by processor	DDR3-SDRAM

Software

Operating system installed *	Windows 8.1

Processor special features

Intel® Small Business Advantage (Intel® SBA)	✔
Intel® Wireless Display (Intel® WiDi)	✔
Intel 64	✔
Enhanced Intel SpeedStep Technology	✔
Embedded options available	✗
Intel® InTru™ 3D Technology	✔
Intel® Insider™	✔
Intel® Clear Video HD Technology (Intel® CVT HD)	✔
Intel Clear Video Technology	✗
Intel VT-x with Extended Page Tables (EPT)	✔
Intel TSX-NI	✗
Idle States	✔
Thermal Monitoring Technologies	✔
Intel Stable Image Platform Program (SIPP)	✔
Intel® AES New Instructions (Intel® AES-NI)	✔
Intel® Secure Key	✔
Intel® OS Guard	✔
Intel Trusted Execution Technology	✔
Execute Disable Bit	✔

Processor

Memory clock speeds supported by processor	1333,1600 MHz
Memory bandwidth supported by processor (max)	25,6 GB/s
ECC supported by processor	✘

Memory

Internal memory *	16 GB
Maximum internal memory *	16 GB
Internal memory type	DDR3-SDRAM
Memory slots	2x SO-DIMM
Memory channels	Dual-channel

Storage

Total storage capacity *	1,13 TB
Storage media *	HDD+SSD
Optical drive type *	DVD Super Multi
HDD capacity	1 TB
SSD capacity	128 GB

Graphics

On-board graphics card *	✔
Discrete graphics card model *	NVIDIA® GeForce® GTX 980
Discrete graphics card memory	4 GB
On-board graphics card family	Intel® HD Graphics
On-board graphics card model *	Intel® HD Graphics 4600
On-board graphics card base frequency	350 MHz
On-board graphics card dynamic frequency (max)	1200 MHz
Maximum on-board graphics card memory	1,024 GB
Number of displays supported (on-board graphics)	3
On-board graphics card DirectX version	11.1
On-board graphics card ID	0x412
Graphics card Open GL support	✔

Network

Ethernet LAN *	✔
Ethernet LAN data rates	10,100,1000 Mbit/s
Wi-Fi *	✔
Top Wi-Fi standard	Wi-Fi 5 (802.11ac)
Wi-Fi standards	802.11a, Wi-Fi 5 (802.11ac), 802.11b, 802.11g, Wi-Fi 4 (802.11n)
Bluetooth	✔
Bluetooth version	4.0

Ports & interfaces

USB 2.0 ports quantity *	4
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	4
DVI port	✘
HDMI ports quantity *	1
Ethernet LAN (RJ-45) ports	1
Microphone in	✔
Headphone outputs	1
DC-in jack	✔

Design

Product colour *	Black, Red

Performance

Motherboard chipset	Intel® H97

Processor special features

Intel FDI Technology	✔
Intel Flex Memory Access	✘
Intel Fast Memory Access	✘
Intel® Smart Cache	✔
Intel Enhanced Halt State	✔
Intel Demand Based Switching	✘
Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✘
Processor package size	37.5 x 37.5 mm
Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
Processor code	SR1QF
Scalability	1S
CPU configuration (max)	1
Graphics & IMC lithography	22 nm
Thermal solution specification	PCG 2013D
Intel Virtualization Technology for Directed I/O (VT-d)	✔
Intel Identity Protection Technology version	1,00
Intel Stable Image Platform Program (SIPP) version	1,00
Intel Secure Key Technology version	1,00
Intel Virtualization Technology (VT-x)	✔
Intel Small Business Advantage (SBA) version	1,00
Intel TSX-NI version	0,00
Intel Dual Display Capable Technology	✘
Intel Rapid Storage Technology	✘
Processor ARK ID	80806
Intel® Turbo Boost Technology	2.0
Intel® Hyper Threading Technology (Intel® HT Technology)	✔
Intel® Quick Sync Video Technology	✔
Intel® My WiFi Technology (Intel® MWT)	✔
Intel® Identity Protection Technology (Intel® IPT)	✔
Intel® Anti-Theft Technology (Intel® AT)	✔
Conflict-Free processor	✔

Certificates

Certification	BSMI/CB/CE/FCC/ETL/CCC/C-Tick/VCCI

Weight & dimensions

Width *	104 mm
Depth *	358 mm
Height *	340 mm
Weight *	6,38 kg
Package width	190 mm
Package depth	592 mm
Package height	400 mm

Packaging content

Mouse included	✘
Keyboard included	✘

Display

Display included *	✘

Performance		Other features	
Audio system	SonicMaster	Optical drives quantity	1
Audio output channels	7.1 channels	Intel® Virtualization Technology (Intel® VT)	VT-d, VT-x
Product type *	PC		

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