



DELL OptiPlex 9020 SFF Intel® Core™ i7 i7-4790 8 GB DDR3-SDRAM 256 GB SSD AMD Radeon R7 250 Windows 7 Professional PC Black

Brand : DELL

Product family: OptiPlex

Product code: 9020-8785

Product name : 9020 SFF

Intel Core i7-4790 (3.60 GHz), 8GB DDR3-1600MHz, 256GB SSD, DVD±RW, 2GB AMD Radeon R7 250/Intel HD Graphics 4600, 6x USB 2.0, 4x USB 3.0, VGA, 2x DisplayPort, Gigabit LAN, Windows 7 Professional + Windows 8.1 DVD, 6.0kg, Black, Keyboard/Mouse
DELL OptiPlex 9020 SFF. Processor frequency: 3,6 GHz, Processor family: Intel® Core™ i7, Processor model: i7-4790. Internal memory: 8 GB, Internal memory type: DDR3-SDRAM, Memory clock speed: 1600 MHz. Total storage capacity: 256 GB, Storage media: SSD, Optical drive type: DVD±RW. On-board graphics card model: Intel® HD Graphics 4600, Discrete graphics card model: AMD Radeon R7 250. Operating system installed: Windows 7 Professional, Operating system architecture: 64-bit. Power supply: 255 W. Product type: PC



Processor		Software	
Processor manufacturer *	Intel	Recovery operating system	Windows 8.1
Processor family *	Intel® Core™ i7	Processor special features	
Processor generation	4th gen Intel® Core™ i7	Intel® Small Business Advantage (Intel® SBA)	✗
Processor model *	i7-4790	Intel® Wireless Display (Intel® WiDi)	✓
Processor cores	4	Intel 64	✓
Processor threads	8	Enhanced Intel SpeedStep Technology	✓
Processor boost frequency	4 GHz	Embedded options available	✗
Processor frequency *	3.6 GHz	Intel® InTru™ 3D Technology	✓
Processor socket	LGA 1150 (Socket H3)	Intel® Insider™	✓
Processor cache	8 MB	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Processor cache type	Smart Cache	Intel Clear Video Technology	✗
System bus rate	5 GT/s	Intel VT-x with Extended Page Tables (EPT)	✓
Bus type	DMI	Intel TSX-NI	✗
FSB Parity	✗	Idle States	✓
Processor lithography	22 nm	Thermal Monitoring Technologies	✓
Processor operating modes	32-bit, 64-bit	Intel Stable Image Platform Program (SIPP)	✓
Processor series	Intel Core i7-4700 Desktop series	Intel® AES New Instructions (Intel® AES-NI)	✓
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		

Processor		Processor special features	
Number of processors installed	1	Intel® Secure Key	✓
Stepping	C0	Intel® OS Guard	✓
Maximum internal memory supported by processor	32 GB	Intel Trusted Execution Technology	✓
Memory types supported by processor	DDR3-SDRAM	Execute Disable Bit	✓
Memory clock speeds supported by processor	1333,1600 MHz	Intel FDI Technology	✓
Memory bandwidth supported by processor (max)	25.6 GB/s	Intel Flex Memory Access	✗
ECC supported by processor	✗	Intel Fast Memory Access	✗
		Intel® Smart Cache	✓
		Intel Enhanced Halt State	✓
Memory		Intel Demand Based Switching	✗
Internal memory *	8 GB	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✗
Maximum internal memory *	32 GB	Processor package size	37.5 x 37.5 mm
Internal memory type	DDR3-SDRAM	Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
Memory layout (slots x size)	2 x 4 GB	Processor code	SR1QF
Memory slots	4x DIMM	Scalability	1S
Memory clock speed	1600 MHz	CPU configuration (max)	1
Non-ECC	✓	Graphics & IMC lithography	22 nm
Memory channels	Dual-channel	Thermal solution specification	PCG 2013D
Storage		Intel Virtualization Technology for Directed I/O (VT-d)	✓
Total storage capacity *	256 GB	Intel Identity Protection Technology version	1.00
Storage media *	SSD	Intel Stable Image Platform Program (SIPP) version	1.00
Optical drive type *	DVD±RW	Intel Secure Key Technology version	1.00
Number of SSDs installed	1	Intel Virtualization Technology (VT-x)	✓
SSD capacity	256 GB	Intel Small Business Advantage (SBA) version	1.00
Graphics		Intel TSX-NI version	0.00
On-board graphics card *	✓	Intel Dual Display Capable Technology	✗
Discrete graphics card model *	AMD Radeon R7 250	Intel Rapid Storage Technology	✗
Discrete graphics card memory	2 GB	Processor ARK ID	80806
Number of discrete graphics cards	1	Intel® Smart Response Technology	✗
On-board graphics card family	Intel® HD Graphics	Intel® Rapid Start Technology	✗
On-board graphics card model *	Intel® HD Graphics 4600	Intel® Turbo Boost Technology	2.0
On-board graphics card base frequency	350 MHz	Intel Smart Connect Technology	✗
On-board graphics card dynamic frequency (max)	1200 MHz	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Maximum on-board graphics card memory	1.024 GB	Intel® Quick Sync Video Technology	✓
Number of displays supported (on-board graphics)	3	Intel® My WiFi Technology (Intel® MWT)	✓
On-board graphics card DirectX version	11.1	Intel® Identity Protection Technology (Intel® IPT)	✓
On-board graphics card ID	0x412	Intel® Anti-Theft Technology (Intel® AT)	✓
Network		Conflict-Free processor	✓
Ethernet LAN *	✓	Power	
Ethernet LAN data rates	10,100,1000 Mbit/s	Power supply *	255 W
Cabling technology	10/100/1000Base-T(X)	Power supply input voltage	100 - 240 V
Wi-Fi *	✗	Power supply input frequency	50 - 60 Hz
Ports & interfaces		Certificates	
USB 2.0 ports quantity *	6	Compliance certificates	RoHS
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	4	Sustainability	
VGA (D-Sub) ports quantity	1	Sustainability certificates	ENERGY STAR
DVI port	✗		
DisplayPorts quantity	2		
PS/2 ports quantity	2		
Ethernet LAN (RJ-45) ports	1		
Microphone in	✓		
Headphone outputs	1		

Ports & interfaces		Weight & dimensions	
Line-out	✓	Width *	93 mm
Line-in	✓	Depth *	312 mm
Serial ports quantity	1	Height *	290 mm
Expansion slots		Weight *	6 kg
PCI Express x16 slots	2	Packaging content	
Design		Mouse included	✓
Chassis type *	SFF	Keyboard included	✓
Placement supported	Horizontal/Vertical	Cables included	AC
Water cooling system	✗	Manual	✓
Number of 3.5" bays	1	Display	
Number of 5.25" bays	1	Display included *	✗
Product colour *	Black	Other features	
Performance		Optical drives quantity	1
Motherboard chipset	Intel® Q87	Intel® Virtualization Technology (Intel® VT)	VT-d, VT-x
Compatible processor series	Intel® Pentium® Dual-Core	Intel segment tagging	Enterprise, Small Business
Product type *	PC		
Software			
Operating system installed *	Windows 7 Professional		
Operating system architecture	64-bit		

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