



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: 9020-0900

Product name : 9020 SFF

Intel Core i7-4790 (3.60 GHz), 8GB DDR3-1600MHz, 256GB SSD, DVD±RW, 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 Licence, 6.0kg + 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	Operating system installed *	Windows 7 Professional
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	✗
Memory	Internal memory * Maximum internal memory * Internal memory type Memory slots Memory clock speed Non-ECC Memory channels	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
Storage	Total storage capacity * Storage media * Optical drive type * Number of storage drives installed Number of SSDs installed SSD capacity	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)	✓
Graphics	On-board graphics card * Discrete graphics card model * Number of discrete graphics cards On-board graphics card family On-board graphics card model * On-board graphics card base frequency On-board graphics card dynamic frequency (max) Maximum on-board graphics card memory Number of displays supported (on-board graphics) On-board graphics card DirectX version On-board graphics card ID	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® Smart Response Technology	✗
		Intel® Rapid Start Technology	✗
		Intel® Turbo Boost Technology	2.0
		Intel Smart Connect Technology	✗
		Intel® Hyper Threading Technology (Intel® HT Technology)	✓
		Intel® Quick Sync Video Technology	✓
		Intel® My WiFi Technology (Intel® MWT)	✓
Network	Ethernet LAN * Ethernet LAN data rates Cabling technology Wi-Fi *	Intel® Identity Protection Technology (Intel® IPT)	✓
		Intel® Anti-Theft Technology (Intel® AT)	✓
		Conflict-Free processor	✓
		Power	
Ports & interfaces	USB 2.0 ports quantity * USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity * VGA (D-Sub) ports quantity DVI port DisplayPorts quantity PS/2 ports quantity Ethernet LAN (RJ-45) ports Microphone in Headphone outputs	Power supply *	255 W
		Power supply input voltage	100 - 240 V
		Power supply input frequency	50 - 60 Hz
		Certificates	
		Compliance certificates	RoHS
		Sustainability	
		Sustainability certificates	ENERGY STAR

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® Core™ i3, Intel® Core™ i5, Intel® Core™ i7	Intel segment tagging	Enterprise, Small Business
Product type *	PC		
Software			
Operating system architecture	64-bit		
Recovery operating system	Windows 8.1		



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