



DELL OptiPlex 9020 Intel® Core™ i7 i7-4770 8 Go DDR3-SDRAM 500 Go HDD AMD Radeon HD 8570 Windows 7 Professional SFF PC Noir

Marque : DELL

Famille de produit: OptiPlex

Code produit:
OPTI_9020_SFF_C-BTO2

Nom du produit : 9020

DELL OptiPlex 9020. Fréquence du processeur: 3,4 GHz, Famille de processeur: Intel® Core™ i7, Modèle de processeur: i7-4770. Mémoire interne: 8 Go, Type de mémoire interne: DDR3-SDRAM, Fréquence de la mémoire: 1600 MHz. Capacité totale de stockage: 500 Go, Supports de stockage: HDD, Lecteur optique: DVD±RW. Modèle d'adaptateur graphique inclus: Intel® HD Graphics 4600, Modèle d'adaptateur graphique distinct: AMD Radeon HD 8570. Système d'exploitation installé: Windows 7 Professional, Architecture du système d'exploitation: 64-bit. Alimentation d'énergie: 255 W. Type de produit: PC



Processor		Software	
Processor manufacturer *	Intel	Operating system installed *	Windows 7 Professional
Processor family *	Intel® Core™ i7	Operating system architecture	64-bit
Processor generation	4th gen Intel® Core™ i7	Operating system language	Spanish
Processor model *	i7-4770	Drivers included	✓
Processor cores	4	Processor special features	
Processor threads	8	Intel® Small Business Advantage (Intel® SBA)	✗
Processor boost frequency	3.9 GHz	Intel® Wireless Display (Intel® WiDi)	✓
Processor frequency *	3.4 GHz	Intel 64	✓
Processor socket	LGA 1150 (Socket H3)	Enhanced Intel SpeedStep Technology	✓
Processor cache	8 MB	Embedded options available	✗
Processor cache type	Smart Cache	Intel® InTru™ 3D Technology	✓
System bus rate	5 GT/s	Intel® Insider™	✓
Bus type	DMI2	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
FSB Parity	✗	Intel Clear Video Technology	✗
Processor lithography	22 nm	Intel VT-x with Extended Page Tables (EPT)	✓
Processor operating modes	64-bit	Intel TSX-NI	✗
Processor series	Intel Core i7-4700 Desktop series	Idle States	✓
Processor codename	Haswell	Thermal Monitoring Technologies	✓
Thermal Design Power (TDP)	84 W	Intel Stable Image Platform Program (SIPP)	✓
Tcase	72.72 °C	Intel® AES New Instructions (Intel® AES-NI)	✓
PCI Express slots version	3.0	Intel® Secure Key	✓
Maximum number of PCI Express lanes	16	Intel® OS Guard	✓
PCI Express configurations	1x16, 2x8, 1x8+2x4	Intel Trusted Execution Technology	✓
Number of processors installed	1	Execute Disable Bit	✓
Number of QPI links	1	Intel FDI Technology	✓
Stepping	C0	Intel Flex Memory Access	✗
Maximum internal memory supported by processor	32 GB		
Memory types supported by processor	DDR3-SDRAM		
Memory clock speeds supported by processor	1333,1600 MHz		
Memory bandwidth supported by processor (max)	25.6 GB/s		

Processor		Processor special features	
ECC supported by processor	✗	Intel Fast Memory Access	✗
Memory voltage supported by processor	1.5 V	Intel® Smart Cache	✓
Memory		Intel Enhanced Halt State	✓
Internal memory *	8 GB	Intel Demand Based Switching	✗
Maximum internal memory *	32 GB	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✗
Internal memory type	DDR3-SDRAM	Processor package size	37.5 x 37.5 mm
Memory layout (slots x size)	2 x 4 GB	Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
Memory slots	4x DIMM	Processor code	SR149
Memory clock speed	1600 MHz	Scalability	1S
Memory channels	Dual-channel	CPU configuration (max)	1
Storage		Graphics & IMC lithography	22 nm
Total storage capacity *	500 GB	Thermal solution specification	PCG 2013D
Storage media *	HDD	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Optical drive type *	DVD±RW	Intel Identity Protection Technology version	1.00
Number of storage drives installed	1	Intel Stable Image Platform Program (SIPP) version	1.00
Number of HDDs installed	1	Intel Secure Key Technology version	1.00
HDD capacity	500 GB	Intel Virtualization Technology (VT-x)	✓
HDD interface	SATA	Intel Small Business Advantage (SBA) version	1.00
HDD speed	7200 RPM	Intel TSX-NI version	0.00
HDD size	3.5"	Intel Dual Display Capable Technology	✗
Card reader integrated	✓	Intel Rapid Storage Technology	✗
Graphics		Processor ARK ID	75122
On-board graphics card *	✓	Intel® Smart Response Technology	✗
Discrete graphics card model *	AMD Radeon HD 8570	Intel® Rapid Start Technology	✗
On-board graphics card family	Intel® HD Graphics	Intel® Turbo Boost Technology	2.0
On-board graphics card model *	Intel® HD Graphics 4600	Intel Smart Connect Technology	✗
On-board graphics card base frequency	350 MHz	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
On-board graphics card dynamic frequency (max)	1200 MHz	Intel® Quick Sync Video Technology	✓
Maximum on-board graphics card memory	2 GB	Intel® My WiFi Technology (Intel® MWT)	✓
Number of displays supported (on-board graphics)	3	Intel® Identity Protection Technology (Intel® IPT)	✓
On-board graphics card DirectX version	11.2/12	Intel® Anti-Theft Technology (Intel® AT)	✓
On-board graphics card OpenGL version	4.3	Conflict-Free processor	✓
On-board graphics card ID	0x412	Power	
Network		Power supply *	255 W
Ethernet LAN *	✓	Power supply input voltage	100 - 240 V
Ethernet LAN data rates	10,100,1000 Mbit/s	Power supply input frequency	50 - 60 Hz
Cabling technology	10/100/1000Base-T(X)	Certificates	
Wi-Fi *	✗	Compliance certificates	RoHS
Ports & interfaces		Certification	CECP, WEEE
USB 2.0 ports quantity *	6	Sustainability	
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	4	Sustainability certificates	ENERGY STAR
VGA (D-Sub) ports quantity	1	Weight & dimensions	
DVI port	✓	Width *	93 mm
DisplayPorts quantity	2	Depth *	312 mm
PS/2 ports quantity	2	Height *	290 mm
Ethernet LAN (RJ-45) ports	1	Weight *	6 kg
Microphone in	✓	Packaging content	
Headphone outputs	1		
Line-out	✓		
Line-in	✓		
Serial ports quantity	1		

Expansion slots		Packaging content	
PCI Express x16 slots	2	Mouse included	✗
Design		Keyboard included	✗
Chassis type *	SFF	Cables included	AC
Placement supported	Horizontal/Vertical	Manual	✓
Water cooling system	✗	Display	
Number of 3.5" bays	1	Display included *	✓
Number of 5.25" bays	1	Display diagonal	35.6 cm (14")
Cable lock slot	✓	Display resolution	1366 x 768 pixels
Product colour *	Black	Other features	
Performance		Optical drives quantity	1
Motherboard chipset	Intel® Q87	Intel® Virtualization Technology (Intel® VT)	VT-d, VT-x
Audio system	HD	Intel segment tagging	Enterprise, Small Business
Password protection	✓		
Password protection type	BIOS		
Product type *	PC		

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