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

Processor manufacturer *	Intel
Processor family *	Intel® Core™ i7
Processor generation	4th gen Intel® Core™ i7
Processor model *	i7-4770
Processor cores	4
Processor threads	8
Processor boost frequency	3.9 GHz
Processor frequency *	3.4 GHz
Processor socket	LGA 1150 (Socket H3)
Processor cache	8 MB
Processor cache type	Smart Cache
System bus rate	5 GT/s
Bus type	DMI2
FSB Parity	✘
Processor lithography	22 nm
Processor operating modes	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
Number of QPI links	1
Stepping	C0
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

Software

Operating system installed *	Windows 7 Professional
Operating system architecture	64-bit
Operating system language	Spanish
Drivers included	✔

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	✔
Intel FDI Technology	✔
Intel Flex Memory Access	✘

Processor

ECC supported by processor	✘
Memory voltage supported by processor	1.5 V

Memory

Internal memory *	8 GB
Maximum internal memory *	32 GB
Internal memory type	DDR3-SDRAM
Memory layout (slots x size)	2 x 4 GB
Memory slots	4x DIMM
Memory clock speed	1600 MHz
Memory channels	Dual-channel

Storage

Total storage capacity *	500 GB
Storage media *	HDD
Optical drive type *	DVD±RW
Number of storage drives installed	1
Number of HDDs installed	1
HDD capacity	500 GB
HDD interface	SATA
HDD speed	7200 RPM
HDD size	3.5"
Card reader integrated	✔

Graphics

On-board graphics card *	✔
Discrete graphics card model *	AMD Radeon HD 8570
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	2 GB
Number of displays supported (on-board graphics)	3
On-board graphics card DirectX version	11.2/12
On-board graphics card OpenGL version	4.3
On-board graphics card ID	0x412

Network

Ethernet LAN *	✔
Ethernet LAN data rates	10,100,1000 Mbit/s
Cabling technology	10/100/1000Base-T(X)
Wi-Fi *	✘

Ports & interfaces

USB 2.0 ports quantity *	6
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	4
VGA (D-Sub) ports quantity	1
DVI port	✔
DisplayPorts quantity	2
PS/2 ports quantity	2
Ethernet LAN (RJ-45) ports	1
Microphone in	✔
Headphone outputs	1
Line-out	✔
Line-in	✔
Serial ports quantity	1

Processor special features

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	SR149
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	75122
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)	✔
Intel® Identity Protection Technology (Intel® IPT)	✔
Intel® Anti-Theft Technology (Intel® AT)	✔
Conflict-Free processor	✔

Power

Power supply *	255 W
Power supply input voltage	100 - 240 V
Power supply input frequency	50 - 60 Hz

Certificates

Compliance certificates	RoHS
Certification	CECP, WEEE

Sustainability

Sustainability certificates	ENERGY STAR

Weight & dimensions

Width *	93 mm
Depth *	312 mm
Height *	290 mm
Weight *	6 kg

Packaging content

Expansion slots

PCI Express x16 slots	2

Design

Chassis type *	SFF
Placement supported	Horizontal/Vertical
Water cooling system	✘
Number of 3.5" bays	1
Number of 5.25" bays	1
Cable lock slot	✔
Product colour *	Black

Performance

Motherboard chipset	Intel® Q87
Audio system	HD
Password protection	✔
Password protection type	BIOS
Product type *	PC

Packaging content

Mouse included	✘
Keyboard included	✘
Cables included	AC
Manual	✔

Display

Display included *	✔
Display diagonal	35.6 cm (14")
Display resolution	1366 x 768 pixels

Other features

Optical drives quantity	1
Intel® Virtualization Technology (Intel® VT)	VT-d, VT-x
Intel segment tagging	Enterprise, Small Business