



## DELL OptiPlex 7020 SFF Intel® Core™ i5 i5-4590 8 GB DDR3-SDRAM 500 GB HDD Windows 7 Professional PC Black

**Brand :** DELL

**Product family:** OptiPlex

**Product code:** 462-5902

**Product name :** 7020 SFF

Intel Core i5-4590 3.3/3.7 GHz, 8GB DDR3 RAM, 500GB SATA HDD, Intel HD Graphics 4600, DVD-RW, Gigabit Ethernet, Windows 7 Professional 64-bit  
DELL OptiPlex 7020 SFF. Processor frequency: 3,3 GHz, Processor family: Intel® Core™ i5, Processor model: i5-4590. Internal memory: 8 GB, Internal memory type: DDR3-SDRAM, Memory clock speed: 1600 MHz. Total storage capacity: 500 GB, Storage media: HDD, Optical drive type: DVD-RW. On-board graphics card model: Intel® HD Graphics 4600. Operating system installed: Windows 7 Professional, Operating system architecture: 64-bit. Power supply: 255 W. Chassis type: SFF. Product type: PC



Processor		Software	
Processor manufacturer *	Intel	Operating system installed *	Windows 7 Professional
Processor family *	Intel® Core™ i5	<b>Processor special features</b>	
Processor generation	4th gen Intel® Core™ i5	Intel® Small Business Advantage (Intel® SBA)	✗
Processor model *	i5-4590	Intel® Wireless Display (Intel® WiDi)	✓
Processor cores	4	Intel 64	✓
Processor threads	4	Enhanced Intel SpeedStep Technology	✓
Processor boost frequency	3,7 GHz	Embedded options available	✗
Processor frequency *	3,3 GHz	Intel® InTru™ 3D Technology	✓
Processor socket	LGA 1150 (Socket H3)	Intel® Insider™	✓
Processor cache	6 MB	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Processor cache type	L3	Intel Clear Video Technology	✗
System bus rate	5 GT/s	Intel VT-x with Extended Page Tables (EPT)	✓
Bus type	DMI2	Intel TSX-NI	✗
FSB Parity	✗	Idle States	✓
Processor lithography	22 nm	Thermal Monitoring Technologies	✓
Processor operating modes	64-bit	Intel Stable Image Platform Program (SIPP)	✓
Processor series	Intel Core i5-4500 Desktop Series	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor codename	Haswell	Intel® Secure Key	✓
Thermal Design Power (TDP)	84 W	Intel® OS Guard	✓
Tcase	72,72 °C	Intel Trusted Execution Technology	✓
PCI Express slots version	3.0	Execute Disable Bit	✓
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		

Processor		Processor special features	
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		Intel® Smart Cache	✓
Internal memory *	8 GB	Intel Enhanced Halt State	✓
Maximum internal memory *	16 GB	Intel Demand Based Switching	✗
Internal memory type	DDR3-SDRAM	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✗
Memory slots	4x DIMM	Processor package size	37.5 x 37.5 mm
Memory clock speed	1600 MHz	Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
Non-ECC	✓	Processor code	SR1QJ
Memory channels	Dual-channel	Scalability	1S
Storage		CPU configuration (max)	1
Total storage capacity *	500 GB	Graphics & IMC lithography	22 nm
Storage media *	HDD	Thermal solution specification	PCG 2013D
Optical drive type *	DVD-RW	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Number of hard drives installed	1	Intel Identity Protection Technology version	1,00
Hard drive capacity	500 GB	Intel Stable Image Platform Program (SIPP) version	1,00
Hard drive interface	SATA	Intel Secure Key Technology version	1,00
Graphics		Intel Virtualization Technology (VT-x)	✓
On-board graphics card *	✓	Intel Small Business Advantage (SBA) version	1,00
On-board graphics card family	Intel® HD Graphics	Intel TSX-NI version	0,00
On-board graphics card model *	Intel® HD Graphics 4600	Intel Dual Display Capable Technology	✗
On-board graphics card base frequency	350 MHz	Intel Rapid Storage Technology	✗
On-board graphics card dynamic frequency (max)	1150 MHz	Processor ARK ID	80815
Maximum on-board graphics card memory	2 GB	Intel® Smart Response Technology	✗
Number of displays supported (on-board graphics)	3	Intel® Rapid Start Technology	✗
On-board graphics card DirectX version	11.1	Intel® Turbo Boost Technology	2.0
On-board graphics card ID	0x412	Intel Smart Connect Technology	✗
Network		Intel® Hyper Threading Technology (Intel® HT Technology)	✗
Ethernet LAN *	✓	Intel® Quick Sync Video Technology	✓
Ethernet LAN data rates	10,100,1000 Mbit/s	Intel® My WiFi Technology (Intel® MWT)	✓
Cabling technology	10/100/1000Base-T(X)	Intel® Identity Protection Technology (Intel® IPT)	✓
Ports & interfaces		Intel® Anti-Theft Technology (Intel® AT)	✓
USB 2.0 ports quantity *	6	Conflict-Free processor	✓
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	4	Power	
VGA (D-Sub) ports quantity	1	Power supply *	255 W
DVI port	✗	Certificates	
DisplayPorts quantity	2	Compliance certificates	RoHS
PS/2 ports quantity	2	Sustainability	
Ethernet LAN (RJ-45) ports	1	Sustainability certificates	ENERGY STAR
Microphone in	✓	Weight & dimensions	
Headphone outputs	1	Width *	93 mm
Line-out	✓	Depth *	312 mm
Line-in	✓	Height *	290 mm
DC-in jack	✓	Weight *	6 kg
Serial ports quantity	1	Packaging content	
Expansion slots		Mouse included	✗
PCI Express x16 slots	2		
Design			
Chassis type *	SFF		

Design		Packaging content	
Placement supported	Horizontal/Vertical	Keyboard included	✗
Water cooling system	✗	Display	
Number of 3.5" bays	1	Display included *	✗
Number of 5.25" bays	1	Other features	
Product colour *	Black	Optical drives quantity	1
Performance		Intel® Virtualization Technology (Intel® VT)	VT-d, VT-x
Motherboard chipset	Intel® Q87	Intel segment tagging	Enterprise, Small Business
Password protection	✓		
Password protection type	BIOS		
Product type *	PC		
Software			
Operating system architecture	64-bit		

## Catalog Object Cloud



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