



**DELL OptiPlex 9020 58.4 cm (23") 1920 x 1080 pixels 4th gen Intel® Core™ i5 8 GB DDR3-SDRAM 500 GB HDD All-in-One PC Windows 7 Professional Black, Silver**

**Brand :** DELL

**Product family:** OptiPlex

**Product code:** 9020-7419

**Product name :** 9020

23" WLED 1920x1080, Intel Core i5-4670S 3.1GHz (6M Cache, up to 3.80 GHz), 8GB DDR3, 500GB HDD, DVD±RW, Intel HD 4600, Gigabit Ethernet, WLAN, 4 x USB 3.0, 4 x USB 2.0, D-Sub, HDMI, 200 W, Black, Windows 7 Professional 64-bit

DELL OptiPlex 9020. Product type: All-in-One PC. Display diagonal: 58.4 cm (23"), HD type: Full HD, Display resolution: 1920 x 1080 pixels. Processor family: 4th gen Intel® Core™ i5, Processor frequency: 3.1 GHz. Internal memory: 8 GB, Internal memory type: DDR3-SDRAM. Total storage capacity: 500 GB, Storage media: HDD. On-board graphics adapter model: Intel® HD Graphics 4600. Optical drive type: DVD±RW. Operating system installed: Windows 7 Professional. Product colour: Black, Silver



Display		Performance	
Display diagonal *	58.4 cm (23")	Product type *	All-in-One PC
Display resolution *	1920 x 1080 pixels	Motherboard chipset	Intel® Q87
Touchscreen *	✗	Software	
Full HD	✓	Operating system architecture	64-bit
HD type *	Full HD	Operating system installed *	Windows 7 Professional
LED backlight	✓	Processor special features	
Native aspect ratio	16:9	Intel® Smart Response Technology	✗
Processor		Intel® Turbo Boost Technology	2.0
Processor manufacturer *	Intel	Intel® Hyper Threading Technology (Intel® HT Technology)	✗
Processor model *	i5-4670S	Intel® My WiFi Technology (Intel® MWT)	✓
Processor family *	4th gen Intel® Core™ i5	Intel® Identity Protection Technology (Intel® IPT)	✓
Processor frequency *	3.1 GHz	Intel® Anti-Theft Technology (Intel® AT)	✓
Processor boost frequency	3.8 GHz	Intel® Rapid Start Technology	✗
Processor cores	4	Intel Smart Connect Technology	✗
Processor threads	4	Intel® Small Business Advantage (Intel® SBA)	✗
Processor cache	6 MB	Intel® Wireless Display (Intel® WiDi)	✓
Processor cache type	Smart Cache	Enhanced Intel SpeedStep Technology	✓
64-bit computing	✓	Intel® Quick Sync Video Technology	✓
Thermal Design Power (TDP)	65 W	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
PCI Express slots version	3.0	Intel Clear Video Technology	✗
Processor socket	LGA 1150 (Socket H3)	Intel® Insider™	✓
Processor lithography	22 nm	Intel® InTru™ 3D Technology	✓
Processor operating modes	64-bit	Intel Flex Memory Access	✗
Stepping	C0	Intel® AES New Instructions (Intel® AES-NI)	✓
Bus type	DMI2		
Number of QPI links	1		
Processor codename	Haswell		
Processor series	Intel Core i5-4600 Desktop series		
FSB Parity	✗		
Maximum number of PCI Express lanes	16		

Processor		Processor special features	
PCI Express configurations	1x16,2x8,1x8+2x4	Intel Trusted Execution Technology	✓
Processor code	SR14K	Intel Enhanced Halt State	✓
Tcase	71.35 °C	Intel VT-x with Extended Page Tables (EPT)	✓
Maximum internal memory supported by processor	32 GB	Intel Demand Based Switching	✗
Conflict-Free processor	✓	Intel® Secure Key	✓
Memory types supported by processor	DDR3-SDRAM	Intel TSX-NI	✗
Memory clock speeds supported by processor	1333,1600 MHz	Intel Stable Image Platform Program (SIPP)	✓
Memory bandwidth supported by processor (max)	25.6 GB/s	Intel® OS Guard	✓
Memory channels supported by processor	Dual	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✗
ECC supported by processor	✗	Intel 64	✓
<b>Memory</b>		Execute Disable Bit	✓
Internal memory *	8 GB	Idle States	✓
Internal memory type	DDR3-SDRAM	Thermal Monitoring Technologies	✓
Maximum internal memory *	16 GB	Processor package size	37.5 x 37.5 mm
Memory slots	2	Supported instruction sets	AVX 2.0,SSE4.1,SSE4.2
Memory slots type	SO-DIMM	Scalability	1S
Memory clock speed	1600 MHz	CPU configuration (max)	1
<b>Storage</b>		Embedded options available	✗
Total storage capacity *	500 GB	Graphics & IMC lithography	22 nm
Storage media *	HDD	Thermal solution specification	PCG 2013C
Number of storage drives installed	1	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Number of HDDs installed	1	Intel Identity Protection Technology version	1.00
HDD speed	7200 RPM	Intel Stable Image Platform Program (SIPP) version	1.00
HDD interface	SATA	Intel Secure Key Technology version	1.00
Optical drive type *	DVD±RW	Intel Virtualization Technology (VT-x)	✓
Card reader integrated	✓	Intel Small Business Advantage (SBA) version	1.00
<b>Graphics</b>		Intel TSX-NI version	0.00
Discrete graphics adapter model *	Not available	Intel Dual Display Capable Technology	✓
On-board graphics adapter *	✓	Intel FDI Technology	✓
On-board graphics adapter family	Intel® HD Graphics	Intel Rapid Storage Technology	✗
On-board graphics adapter model *	Intel® HD Graphics 4600	Intel Fast Memory Access	✗
On-board graphics adapter base frequency	350 MHz	Processor ARK ID	75049
On-board graphics adapter dynamic frequency (max)	1200 MHz	<b>Weight &amp; dimensions</b>	
Maximum on-board graphics adapter memory	1.74 GB	Width (with stand)	574 mm
Number of displays supported (on-board graphics)	3	Depth (with stand)	68 mm
On-board graphics adapter DirectX version	11.1	Height (with stand)	386 mm
On-board graphics adapter ID	0x412	Weight (with stand)	7.6 kg
<b>Audio</b>		<b>Sustainability</b>	
Built-in speaker(s) *	✓	Sustainability certificates	RoHS, EPEAT Gold, ENERGY STAR
<b>Network</b>		<b>Packaging content</b>	
Wi-Fi *	✓	Mouse included	✓
Ethernet LAN *	✓	Keyboard included	✓
Bluetooth *	✗	AC adapter included	✓
<b>Ports &amp; interfaces</b>		<b>Other features</b>	
USB 2.0 ports quantity *	4	Storage drive interface	Serial ATA
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	4	Autonomy mode	✗
HDMI ports quantity *	1		
VGA (D-Sub) ports quantity	1		
Headphone outputs	1		

**Ports & interfaces**

Microphone in	✓
PS/2 ports quantity	2

**Design**

Product colour *	Black, Silver
------------------	---------------