

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	Processor special features	
Processor generation	4th gen Intel® Core™ i5	Intel® Small Business Advantage	
Processor model *	i5-4590	(Intel® SBA)	×
Processor cores	4	Intel® Wireless Display (Intel®	/
Processor threads	4	WiDi)	•
Processor boost frequency	3,7 GHz	Intel 64	✓
Processor frequency *	3,3 GHz	Enhanced Intel SpeedStep Technology	•
Processor socket	LGA 1150 (Socket H3)		
Processor cache	6 MB	Embedded options available	×
Processor cache type	L3	Intel® InTru™ 3D Technology	✓
System bus rate	5 GT/s	Intel® Insider™	✓
Bus type	DMI2	Intel® Clear Video HD Technology	
FSB Parity	×	(Intel® CVT HD)	V
Processor lithography	22 nm	Intel Clear Video Technology	×
Processor operating modes	64-bit	Intel VT-x with Extended Page	/
Processor series	Intel Core i5-4500 Desktop Series	Tables (EPT)	•
Processor codename	Haswell	Intel TSX-NI	×
Thermal Design Power (TDP)	84 W	Idle States	✓
Tcase	72,72 °C	Thermal Monitoring Technologies	✓
PCI Express slots version	3.0	Intel Stable Image Platform Program	1
Maximum number of PCI Express	16	(SIPP)	•
lanes		Intel® AES New Instructions (Intel®	J
PCI Express configurations	1x16, 2x8, 1x8+2x4	AES-NI)	
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 Access				
			Processor special features	
Memory pendewidth supported by processor X	Memory clock speeds supported by	1333,1600 MHz	Intel FDI Technology	✓
Intel Fast Memory Access Intel Fast Memory Access Intel Fast Memory Intel Fast	•		Intel Flex Memory Access	×
Intel Enhanced Half State		25,6 GB/s	Intel Fast Memory Access	×
Intel Demand Based Switching X X X X X X X X X	ECC supported by processor	×	Intel® Smart Cache	✓
internal memory * 16 GB Mobile internal Devices (Intel Video Technology for Maximum internal memory syste 4 DBM	Memory		Intel Enhanced Halt State	✓
Mabile Internet Devices (Intel CVT V V V V V V V V V	Internal memory *	8 GB	Intel Demand Based Switching	×
Internal memory type	Maximum internal memory *	16 GB	3,	
Memory clock speed 1600 MHz	Internal memory type	DDR3-SDRAM	·	*
Non-ECC	•	4x DIMM	Processor package size	37.5 x 37.5 mm
Memory channels Dual-channel Scalability Storage CPU configuration (max) 15 Graphics & Mic lithography DyD-RW Directed I/O (NT-d) Intel Without pretection Technology for version Intel Without pretection Technology for version Intel Search Protection Technology for version Intel Search Image Platform Program I,00 Intel Search Image Platform Intel Image Platform Intel Image Platform Image Platfor	Memory clock speed		Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
Storage Total storage capacity* 500 GB Total storage capacity* 500 GB Storage media* HDD Thermal solution specification PCG 2013D Intel Virtualization Technology for Directed I/O (VT-d) Intel Identity Protection Technology version Intel Stable Image Piatform Program SpP version Intel Stable Image Piatform Program 1,00 SpP version Intel Stable Image Piatform Program 1,00 SpP version Intel Stable Image Piatform Program 1,00 SpP version Intel Secure Key Technology version Intel Stable Image Piatform Program 1,00 SpP version Intel Secure Key Technology version Intel Secure Key Technology version Intel Secure Key Technology version Intel Stable Image Piatform Program Intel Stable Image Piatfo			Processor code	•
Total storage capacity* Storage media * HDD St	Memory channels	Dual-channel	•	
Thermal solution specification PCG 2013D Thermal solution specification PCCG 2013D Thermal solution Specification PCCCG 2013D Thermal solution Specification PCCCCCONTECTION PCCCCCONTECTION PCCCCCONTECTION PCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	Storage		=	
Intel Virtualization Technology for Dynical drive type DVD-RW DVD-RW DVD-RW Directed W0 (VT-d) Directed W0 (Total storage capacity *	500 GB	1 3 1 7	
Updicat or veryes* Updicator very very very very very very very ver	•		·	
Hard drive capacity 1	, ,,		Directed I/O (VT-d)	V
Hard drive interface Graphics On-board graphics card *				1,00
Simple S	, ,			•
On-board graphics card *				1,00
On-board graphics card family On-board graphics card model* On-board graphics card model* On-board graphics card model* On-board graphics card model* On-board graphics card base frequency On-board graphics card base frequency On-board graphics card dynamic frequency (max) Maximum on-board graphics card model* Maximum on-board graphics card memory Number of displays supported (on-board graphics card biase) Support on-board graphics card on-board graphics on-board graphics card on-board graphics on-board graphics card on-board graphics card on-board graphics on-board graphics on-board graphics on-board graphics	-		Intel Secure Key Technology version	1,00
On-board graphics card model On-board graphics card base frequency On-board graphics card base frequency On-board graphics card dynamic frequency On-board graphics card dynamic frequency On-board graphics card dynamic frequency Maximum on-board graphics card Memory Maximum on-board graphics card Memory Mover Intel Smart Response Technology Memory Methods M	.			✓
On-board graphics card base frequency SSA) version No.00		•		
Intel TSX.NI version 0,00		·	5	1,00
frequency (max) Maximum on-board graphics card memory Number of displays supported (on-board graphics) On-board graphics Card ID On-board graphics Card ID On-board graphics Card ID Ox412 Intel® Rapid Start Technology X Intel® Turbo Boost Technology X Intel® Hapid Start Technology X Intel® Hapid Turbo Boost Technology X Intel® Hapid Technology X Intel® Hapid Technology Intel® Hapid Technology X Intel® Hapid Technology Intel® Hapid		350 MHz	Intel TSX-NI version	0,00
memony Number of displays supported (onbard graphics) On-board graphics card DirectX version On-board graphics card ID On-board graphics card ID On-board graphics card ID Ox412 Intel® Rapid Start Technology Intel® Turbo Boost Technology Network Intel® Hyper Threading Technology Intel® Hyper Threading Technolog	On-board graphics card dynamic frequency (max)	1150 MHz		x
Processor ARK ID 80815	_ ,	2 GB	Intel Rapid Storage Technology	×
board graphics) On-board graphics card DirectX version On-board graphics card ID Ox412 Intel® Rapid Start Technology Intel® Turbo Boost Technology Intel® Turbo Boost Technology X Network Intel® Hyper Threading Technology Intel® Hyper Threading Technology X Intel® Hyper Threading Technology Intel® Hyper Threading Technology X Intel® Hyper Threading Technology Intel® Hyper Threading Technology Intel® MywiFi Technology Intel® My WiFi Technology Intel® My WiFi Technology (Intel® MWT) Ports & interfaces Intel® Identity Protection Technology (Intel® IPT) Intel® Anti-Theft Technology Intel® Anti-Theft Technology Y YORA (D-Sub) ports quantity Y YORA (D-Sub) ports quantity Intel® Anti-Theft Technology Y YORA (D-Sub) ports quantity Y YORA (D-Sub) ports quantity Intel® Anti-Theft Technology Y YORA (D-Sub) ports quantity Y Y Y Y Y Y Y Y Y Y Y Y Y	•	- 00	Processor ARK ID	80815
Network Network Ethernet LAN* Intel® Turbo Boost Technology X Intel® Turbo Boost Technology X Intel® Hyper Threading Technology X Ethernet LAN* Intel® Quick Sync Video Technology Intel® My WiFi Technology Ports & interfaces USB 2.0 ports quantity* 6 USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity 1 USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity 1 USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity 1 DVI port X Power DisplayPorts quantity 2 Power DisplayPorts quantity 2 Certificates Ethernet LAN (R)-45) ports Intel® My WiFi Technology Intel® My WiFi Tech		3	Intel® Smart Response Technology	×
Intel® Turbo Boost Technology 2.0	On-board graphics card DirectX	11.1	Intel® Rapid Start Technology	×
Network Ethernet LAN *			Intel® Turbo Boost Technology	2.0
Ethernet LAN* V		0x412	3,	
Ethernet LAN data rates 10,100,1000 Mbit/s 10/100/1000Base-T(X) Intel® Quick Sync Video Technology Intel® My WiFi Technology (Intel® WMT) Ports & interfaces USB 2.0 ports quantity * 6		,	Intel® Hyper Threading Technology (Intel® HT Technology)	×
Cabling technology 10/100/1000Base-T(X) Intel® My WiFi Technology (Intel® MWT) Ports & interfaces USB 2.0 ports quantity * 6 USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity * 1 DVI port X DisplayPorts quantity 2 PS/2 ports quantity 2 PS/2 ports quantity 2 Ethernet LAN (RJ-45) ports 1 Microphone in			Intel® Quick Sync Video Technology	✓
USB 2.0 ports quantity * 6 USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity * VGA (D-Sub) ports quantity 1 DVI port	Cabling technology		, , , , , , , , , , , , , , , , , , , ,	✓
Intel® Anti-Theft Technology (Intel® AT) Intel® Anti-Theft Technology (Intel® AT) Intel® AT) Intel® Anti-Theft Technology (Intel® AT) Intel® ATI Inte	Ports & interfaces			✓
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity * VGA (D-Sub) ports quantity 1 DVI port X DisplayPorts quantity 2 Power Supply * Certificates Ethernet LAN (RJ-45) ports 1 Microphone in		6		
DVI port X DisplayPorts quantity 2 Power supply * 255 W PS/2 ports quantity 2 Ethernet LAN (RJ-45) ports 1 Microphone in		4	(Intel® AT)	•
DisplayPorts quantity PS/2 ports quantity Ethernet LAN (RJ-45) ports Microphone in Headphone outputs Line-out Line-in DC-in jack Serial ports quantity Expansion slots PCI Express x16 slots Posign Power supply * 255 W Power supply * 255 W Certificates Compliance certificates RoHS Sustainability Sustainability Sustainability certificates ENERGY STAR Weight & dimensions Width * 93 mm 312 mm Poepth * Height * Weight * Weight * Packaging content Mouse included Mouse included	VGA (D-Sub) ports quantity	1	Conflict-Free processor	*
PS/2 ports quantity Ethernet LAN (RJ-45) ports Microphone in Headphone outputs Line-out Line-in DC-in jack Serial ports quantity Expansion slots PCI Express x16 slots PS/2 ports quantity 2 Certificates Compliance certificates RoHS	DVI port	×	Power	
Ethernet LAN (RJ-45) ports Microphone in Headphone outputs Line-out Line-in DC-in jack Serial ports quantity PCI Express x16 slots Design Line-out Line-out Line-out Arrow Meight & dimensions Weight & dimensions Weight & dimensions Weight & dimensions FAR Weight & dimensions Weight & dimensions Weight & dimensions PCI Express x16 slots Packaging content Mouse included Mouse included			Power supply *	255 W
Microphone in Headphone outputs Line-out Line-in DC-in jack Serial ports quantity PCI Express x16 slots Design Compliance certificates Sustainability Sustainability Sustainability certificates ENERGY STAR Weight & dimensions Width * 93 mm 312 mm Height * 290 mm Weight * 290 mm Weight * 6 kg Packaging content Mouse included Mouse included			Certificates	
Headphone outputs Line-out Line-out Line-in C-in jack Surtainability certificates Weight & dimensions Width * 93 mm Serial ports quantity 1 Depth * 11 Depth * 12 Depth * 12 Depth * 13 Depth * 14 Depth * 15 Depth * 16 Depth * 16 Depth * 17 Depth * 18			Compliance certificates	RoHS
Line-out Line-out V Sustainability certificates ENERGY STAR Line-in Weight & dimensions DC-in jack Width * 93 mm Serial ports quantity 1 Depth * 312 mm Height * 290 mm Weight * 290 mm Weight * 6 kg Packaging content Mouse included Mouse included	•		Sustainability	
Line-in V Weight & dimensions DC-in jack V Width * 93 mm Serial ports quantity 1 Depth * Height * Weight * Weight * PCI Express x16 slots PCI Express x16 slots Design Weight * Wei	·	<u>,</u>	•	ENERGY STAR
DC-in jack				
Serial ports quantity 1 Depth * 312 mm Expansion slots PCI Express x16 slots 2 Pesign Packaging content Mouse included		./		03 mm
Expansion slots PCI Express x16 slots 2 Pesign Height * 290 mm Weight * 6 kg Packaging content Mouse included	•	1		
PCI Express x16 slots 2 Packaging content Mouse included		1	•	
PCI Express x16 slots 2 Packaging content Mouse included	•		J. Control of the con	
Design Mouse included X	PCI Express x16 slots	2		
Chassis type * SFF	Design			V
	Chassis type *	SFF	Product meladed	

Design		Packaging content	
Placement supported	Horizontal/Vertical	Keyboard included	×
Water cooling system	X	Display	
Number of 3.5" bays Number of 5.25" bays	1 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
Password protection Password protection type Product type *	BIOS PC	Intel segment tagging	Enterprise, Small Business
Software			
Operating system architecture	64-bit		

Catalog Object Cloud



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