



DELL OptiPlex 3020 Intel® Core™ i5 i5-4590 8 GB DDR3-SDRAM 500 GB HDD Windows 7 Professional Mini Tower PC Black, Silver



Brand : DELL

Product family: OptiPlex

Product code: 3020-5364

Product name : 3020

OptiPlex 3020 Mini Tower - Intel Core i5-4590 (6M Cache, up to 3.70 GHz), 8GB DDR3 1600 MHz, 500GB HDD 7200rpm, H81, HD Graphics 4600, DVD+/-RW, Gigabit Ethernet, 290W, 2x USB 3.0, 6x USB 2.0, Windows 7 Professional/Windows 8.1 Pro

DELL OptiPlex 3020. 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: 290 W. Chassis type: Mini Tower. Product type: PC

Processor		Software	
Processor manufacturer *	Intel	Operating system installed *	Windows 7 Professional
Processor family *	Intel® Core™ i5	Drivers included	✓
Processor generation	4th gen Intel® Core™ i5	Trial software	Microsoft Office
Processor model *	i5-4590	Processor special features	
Processor cores	4	Intel® Small Business Advantage (Intel® SBA)	✗
Processor threads	4	Intel® Wireless Display (Intel® WiDi)	✓
Processor boost frequency	3,7 GHz	Intel 64	✓
Processor frequency *	3,3 GHz	Enhanced Intel SpeedStep Technology	✓
Processor socket	LGA 1150 (Socket H3)	Embedded options available	✗
Processor cache	6 MB	Intel® InTru™ 3D Technology	✓
Processor cache type	L3	Intel® Insider™	✓
System bus rate	5 GT/s	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Bus type	DMI2	Intel Clear Video Technology	✗
FSB Parity	✗	Intel VT-x with Extended Page Tables (EPT)	✓
Processor lithography	22 nm	Intel TSX-NI	✗
Processor operating modes	64-bit	Idle States	✓
Processor series	Intel Core i5-4500 Desktop Series	Thermal Monitoring Technologies	✓
Processor codename	Haswell	Intel Stable Image Platform Program (SIPP)	✓
Thermal Design Power (TDP)	84 W	Intel® AES New Instructions (Intel® AES-NI)	✓
Tcase	72,72 °C	Intel® Secure Key	✓
PCI Express slots version	3.0	Intel® OS Guard	✓
Maximum number of PCI Express lanes	16	Intel Trusted Execution Technology	✓
PCI Express configurations	1x16, 2x8, 1x8+2x4	Execute Disable Bit	✓
Number of processors installed	1	Intel FDI Technology	✓
Stepping	C0	Intel Flex Memory Access	✗
Maximum internal memory supported by processor	32 GB	Intel Fast Memory Access	✗
Memory types supported by processor	DDR3-SDRAM	Intel® Smart Cache	✓
Memory clock speeds supported by processor	1333,1600 MHz	Intel Enhanced Halt State	✓
Memory bandwidth supported by processor (max)	25,6 GB/s	Intel Demand Based Switching	✗
ECC supported by processor	✗		
Memory			
Internal memory *	8 GB		
Maximum internal memory *	16 GB		

Memory		Processor special features	
Internal memory type	DDR3-SDRAM	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✗
Memory layout (slots x size)	2 x 4 GB	Processor package size	37.5 x 37.5 mm
Memory slots	2x DIMM	Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
Memory clock speed	1600 MHz	Processor code	SR1QJ
Non-ECC	✓	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 hard drives installed	1	Intel Secure Key Technology version	1,00
Hard drive capacity	500 GB	Intel Virtualization Technology (VT-x)	✓
Hard drive interface	SATA	Intel Small Business Advantage (SBA) version	1,00
Hard drive speed	7200 RPM	Intel TSX-NI version	0,00
Graphics		Intel Dual Display Capable Technology	✗
On-board graphics card *	✓	Intel Rapid Storage Technology	✗
Discrete graphics card model *	Not available	Processor ARK ID	80815
On-board graphics card family	Intel® HD Graphics	Intel® Smart Response Technology	✗
On-board graphics card model *	Intel® HD Graphics 4600	Intel® Rapid Start Technology	✗
On-board graphics card base frequency	350 MHz	Intel® Turbo Boost Technology	2.0
On-board graphics card dynamic frequency (max)	1150 MHz	Intel Smart Connect Technology	✗
Maximum on-board graphics card memory	2 GB	Intel® Hyper Threading Technology (Intel® HT Technology)	✗
Number of displays supported (on-board graphics)	3	Intel® Quick Sync Video Technology	✓
On-board graphics card DirectX version	11.1	Intel® My WiFi Technology (Intel® MWT)	✓
On-board graphics card ID	0x412	Intel® Identity Protection Technology (Intel® IPT)	✓
Network		Intel® Anti-Theft Technology (Intel® AT)	✓
Ethernet LAN *	✓	Conflict-Free processor	✓
Ethernet LAN data rates	10,100,1000 Mbit/s	Power	
Wi-Fi *	✗	Power supply *	290 W
Ports & interfaces		Power supply input voltage	100 - 240 V
USB 2.0 ports quantity *	6	Power supply input frequency	50 - 60 Hz
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2	Certificates	
VGA (D-Sub) ports quantity	1	Compliance certificates	RoHS
DVI port	✗	Certification	CECP, WEEE, Energy Law, E-standby
DisplayPorts quantity	1	Sustainability	
Ethernet LAN (RJ-45) ports	1	Sustainability certificates	ENERGY STAR
Microphone in	✓	Weight & dimensions	
Headphone outputs	1	Width *	175 mm
Line-out	✓	Depth *	417 mm
Line-in	✓	Height *	360 mm
Expansion slots		Weight *	9,4 kg
PCI Express x1 slots	3	Packaging content	
PCI Express x16 slots	1	Mouse included	✗
Design		Keyboard included	✗
Chassis type *	Mini Tower	Cables included	AC
Placement supported	Vertical	Manual	✓
Water cooling system	✗		
Number of 3.5" bays	2		
Number of 5.25" bays	2		
Cable lock slot	✓		
Product colour *	Black, Silver		

Performance		Display	
Motherboard chipset	Intel® H81	Display included *	×
Password protection	✓	Other features	
Password protection type	BIOS	Optical drives quantity	1
Product type *	PC	Intel® Virtualization Technology (Intel® VT)	VT-d, VT-x
Software		Intel segment tagging	Enterprise, Small Business
Operating system architecture	64-bit		
Operating system language	Multilingual		
Recovery operating system	Windows 8.1 Pro		



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