



## DELL OptiPlex 3020 Intel® Core™ i3 i3-4160 4 GB DDR3-SDRAM 500 GB HDD Windows 7 Professional SFF PC Black, Silver

**Brand :** DELL

**Product family:** OptiPlex

**Product code:** 3020-6553

**Product name :** 3020

Intel Core i3-4160, 4GB (DDR3), 500GB (HDD), Intel HD Graphics 4400, Windows 7 Professional (64 bit) / Windows 8.1, DVD±RW, 6 x USB 2.0, 2 x USB 3.0, 1 x VGA, 1 x DisplayPort, 1 x LAN, Intel H81, 255W, 6 kg

DELL OptiPlex 3020. Processor frequency: 3.6 GHz, Processor family: Intel® Core™ i3, Processor model: i3-4160. Internal memory: 4 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 4400. Operating system installed: Windows 7 Professional, Operating system architecture: 64-bit. Power supply: 255 W. Chassis type: SFF. Product type: PC



Processor		Processor special features	
Processor manufacturer *	Intel	Intel® Small Business Advantage (Intel® SBA)	✗
Processor family *	Intel® Core™ i3	Intel® Wireless Display (Intel® WiDi)	✓
Processor generation	4th gen Intel® Core™ i3	Intel 64	✓
Processor model *	i3-4160	Enhanced Intel SpeedStep Technology	✓
Processor cores	2	Embedded options available	✗
Processor threads	4	Intel® InTru™ 3D Technology	✓
Processor frequency *	3.6 GHz	Intel® Insider™	✗
Processor socket	LGA 1150 (Socket H3)	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Processor cache	3 MB	Intel Clear Video Technology	✗
Processor cache type	Smart Cache	Intel VT-x with Extended Page Tables (EPT)	✓
System bus rate	5 GT/s	Intel TSX-NI	✗
Bus type	DMI	Idle States	✓
FSB Parity	✗	Thermal Monitoring Technologies	✓
Processor lithography	22 nm	Intel Stable Image Platform Program (SIPP)	✗
Processor operating modes	64-bit	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor series	Intel Core i3-4100 Desktop series	Intel® Secure Key	✓
Processor codename	Haswell	Intel Trusted Execution Technology	✗
Thermal Design Power (TDP)	54 W	Execute Disable Bit	✓
Tcase	72 °C	Intel FDI Technology	✗
PCI Express slots version	3.0	Intel Flex Memory Access	✗
Maximum number of PCI Express lanes	16	Intel Fast Memory Access	✗
PCI Express configurations	1x16, 2x8, 1x8+2x4	Intel® Smart Cache	✓
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 Enhanced Halt State	✓
Memory bandwidth supported by processor (max)	25.6 GB/s	Intel Demand Based Switching	✗
ECC supported by processor	✓	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✗
Memory		Processor package size	37.5 x 37.5 mm
Internal memory *	4 GB	Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
Maximum internal memory *	16 GB	Processor code	SR1PK
Internal memory type	DDR3-SDRAM	Scalability	1S
Memory layout (slots x size)	1 x 4 GB	CPU configuration (max)	1
Memory slots	2x DIMM	Graphics & IMC lithography	22 nm
Memory clock speed	1600 MHz	Thermal solution specification	PCG 2013C
Non-ECC	✓	Intel Virtualization Technology for Directed I/O (VT-d)	✗
Memory channels	Dual-channel	Intel Stable Image Platform Program (SIPP) version	0.00
Storage		Intel Secure Key Technology version	1.00
Total storage capacity *	500 GB	Intel Virtualization Technology (VT-x)	✓
Storage media *	HDD	Intel Small Business Advantage (SBA) version	1.00
Optical drive type *	DVD±RW	Intel TSX-NI version	0.00
Number of storage drives installed	1	Intel Dual Display Capable Technology	✗
Number of HDDs installed	1	Intel Rapid Storage Technology	✗
HDD capacity	500 GB	Processor ARK ID	77488
HDD interface	SATA	Intel® Smart Response Technology	✗
HDD speed	7200 RPM	Intel® Rapid Start Technology	✗
HDD size	3.5"	Intel® Turbo Boost Technology	✗
Card reader integrated	✗	Intel Smart Connect Technology	✗
Graphics		Intel® Hyper Threading Technology (Intel® HT Technology)	✓
On-board graphics card *	✓	Intel® Quick Sync Video Technology	✓
Discrete graphics card model *	Not available	Intel® My WiFi Technology (Intel® MWT)	✗
On-board graphics card family	Intel® HD Graphics	Intel® Identity Protection Technology (Intel® IPT)	✗
On-board graphics card model *	Intel® HD Graphics 4400	Intel® Anti-Theft Technology (Intel® AT)	✗
On-board graphics card base frequency	350 MHz	Conflict-Free processor	✓
On-board graphics card dynamic frequency (max)	1150 MHz	Power	
Maximum on-board graphics card memory	1.7 GB	Power supply *	255 W
Number of displays supported (on-board graphics)	3	Power supply input voltage	100 - 240 V
On-board graphics card DirectX version	11.1	Power supply input frequency	50 - 60 Hz
On-board graphics card ID	0x41E	Operational conditions	
Network		Operating temperature (T-T)	0 - 35 °C
Ethernet LAN *	✓	Storage temperature (T-T)	-40 - 65 °C
Ethernet LAN data rates	10,100,1000 Mbit/s	Operating relative humidity (H-H)	20 - 80%
Cabling technology	10/100/1000Base-T(X)	Storage relative humidity (H-H)	20 - 95%
Wi-Fi *	✗	Operating altitude	-15.2 - 3048 m
Ports & interfaces		Non-operating altitude	-15.2 - 10668 m
USB 2.0 ports quantity *	6	Certificates	
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2	Compliance certificates	RoHS
VGA (D-Sub) ports quantity	1	Sustainability	
DVI port	✗	Sustainability certificates	ENERGY STAR
DisplayPorts quantity	1	Weight & dimensions	
Ethernet LAN (RJ-45) ports	1	Width *	93 mm
Microphone in	✓	Depth *	312 mm
Headphone outputs	1	Height *	290 mm
Line-out	✓		
Line-in	✓		

Expansion slots		Weight & dimensions	
PCI Express x1 slots	1	Weight *	6 kg
PCI Express x16 slots	1	Packaging content	
Design		Mouse included	✗
Chassis type *	SFF	Keyboard included	✗
Placement supported	Horizontal/Vertical	Cables included	AC
Water cooling system	✗	Manual	✓
Number of 3.5" bays	1	AC adapter included	✓
Number of 5.25" bays	1	Display	
Cable lock slot	✓	Display included *	✗
Product color *	Black, Silver	Other features	
Performance		Optical drives quantity	1
Motherboard chipset	Intel® H81	Intel® Virtualization Technology (Intel® VT)	VT-x
Compatible processor series	Intel® Pentium®	Intel segment tagging	Enterprise, Small Business
Audio system	HD		
Password protection	✓		
Password protection type	BIOS		
Product type *	PC		
Software			
Operating system architecture	64-bit		
Operating system language	Multilingual		
Recovery operating system	Windows 8.1		
Operating system installed *	Windows 7 Professional		

## Catalog Object Cloud



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