DELL

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		
Processor model *	i3-4160	Intel 64	✔
Processor cores	2	Enhanced Intel SpeedStep Technology	✔
Processor threads	4		
Processor frequency *	3.6 GHz	Embedded options available	✗
Processor socket	LGA 1150 (Socket H3)	Intel® InTru™ 3D Technology	✔
Processor cache	3 MB		
Processor cache type	Smart Cache	Intel® Insider™	✗
System bus rate	5 GT/s	Intel® Clear Video HD Technology (Intel® CVT HD)	✔
Bus type	DMI		
FSB Parity	✗	Intel Clear Video Technology	✗
Processor lithography	22 nm	Intel VT-x with Extended Page Tables (EPT)	✔
Processor operating modes	64-bit		
Processor series	Intel Core i3-4100 Desktop series	Intel TSX-NI	✗
Processor codename	Haswell	Idle States	✔
Thermal Design Power (TDP)	54 W	Thermal Monitoring Technologies	✔
Tcase	72 °C	Intel Stable Image Platform Program (SIPP)	✗
PCI Express slots version	3.0		
Maximum number of PCI Express lanes	16	Intel® AES New Instructions (Intel® AES-NI)	✔
PCI Express configurations	1x16, 2x8, 1x8+2x4	Intel® Secure Key	✔
Number of processors installed	1	Intel Trusted Execution Technology	✗
Stepping	C0	Execute Disable Bit	✔
Maximum internal memory supported by processor	32 GB	Intel FDI Technology	✗
		Intel Flex Memory Access	✗
Memory types supported by processor	DDR3-SDRAM	Intel Fast Memory Access	✗
		Intel® Smart Cache	✔

Processor

Memory clock speeds supported by processor	1333,1600 MHz
Memory bandwidth supported by processor (max)	25.6 GB/s
ECC supported by processor	✔

Memory

Internal memory *	4 GB
Maximum internal memory *	16 GB
Internal memory type	DDR3-SDRAM
Memory layout (slots x size)	1 x 4 GB
Memory slots	2x DIMM
Memory clock speed	1600 MHz
Non-ECC	✔
Memory channels	Dual-channel

Storage

Total storage capacity *	500 GB
Storage media *	HDD
Optical drive type *	DVD±RW
Number of storage drives installed	1
Number of HDDs installed	1
HDD capacity	500 GB
HDD interface	SATA
HDD speed	7200 RPM
HDD size	3.5"
Card reader integrated	✖

Graphics

On-board graphics card *	✔
Discrete graphics card model *	Not available
On-board graphics card family	Intel® HD Graphics
On-board graphics card model *	Intel® HD Graphics 4400
On-board graphics card base frequency	350 MHz
On-board graphics card dynamic frequency (max)	1150 MHz
Maximum on-board graphics card memory	1.7 GB
Number of displays supported (on-board graphics)	3
On-board graphics card DirectX version	11.1
On-board graphics card ID	0x41E

Network

Ethernet LAN *	✔
Ethernet LAN data rates	10,100,1000 Mbit/s
Cabling technology	10/100/1000Base-T(X)
Wi-Fi *	✖

Ports & interfaces

USB 2.0 ports quantity *	6
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2
VGA (D-Sub) ports quantity	1
DVI port	✖
DisplayPorts quantity	1
Ethernet LAN (RJ-45) ports	1
Microphone in	✔
Headphone outputs	1
Line-out	✔
Line-in	✔

Processor special features

Intel Enhanced Halt State	✔
Intel Demand Based Switching	✖
Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✖
Processor package size	37.5 x 37.5 mm
Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
Processor code	SR1PK
Scalability	1S
CPU configuration (max)	1
Graphics & IMC lithography	22 nm
Thermal solution specification	PCG 2013C
Intel Virtualization Technology for Directed I/O (VT-d)	✖
Intel Stable Image Platform Program (SIPP) version	0.00
Intel Secure Key Technology version	1.00
Intel Virtualization Technology (VT-x)	✔
Intel Small Business Advantage (SBA) version	1.00
Intel TSX-NI version	0.00
Intel Dual Display Capable Technology	✖
Intel Rapid Storage Technology	✖
Processor ARK ID	77488
Intel® Smart Response Technology	✖
Intel® Rapid Start Technology	✖
Intel® Turbo Boost Technology	✖
Intel Smart Connect Technology	✖
Intel® Hyper Threading Technology (Intel® HT Technology)	✔
Intel® Quick Sync Video Technology	✔
Intel® My WiFi Technology (Intel® MWT)	✖
Intel® Identity Protection Technology (Intel® IPT)	✖
Intel® Anti-Theft Technology (Intel® AT)	✖
Conflict-Free processor	✔

Power

Power supply *	255 W
Power supply input voltage	100 - 240 V
Power supply input frequency	50 - 60 Hz

Operational conditions

Operating temperature (T-T)	0 - 35 °C
Storage temperature (T-T)	-40 - 65 °C
Operating relative humidity (H-H)	20 - 80%
Storage relative humidity (H-H)	20 - 95%
Operating altitude	-15.2 - 3048 m
Non-operating altitude	-15.2 - 10668 m

Certificates

Compliance certificates	RoHS

Sustainability

Sustainability certificates	ENERGY STAR

Weight & dimensions

Width *	93 mm
Depth *	312 mm
Height *	290 mm

Expansion slots

PCI Express x1 slots	1
PCI Express x16 slots	1

Design

Chassis type *	SFF
Placement supported	Horizontal/Vertical
Water cooling system	✘
Number of 3.5" bays	1
Number of 5.25" bays	1
Cable lock slot	✔
Product color *	Black, Silver

Performance

Motherboard chipset	Intel® H81
Compatible processor series	Intel® Pentium®
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

Weight & dimensions

Weight *	6 kg

Packaging content

Mouse included	✘
Keyboard included	✘
Cables included	AC
Manual	✔
AC adapter included	✔

Display

Display included *	✘

Other features

Optical drives quantity	1
Intel® Virtualization Technology (Intel® VT)	VT-x
Intel segment tagging	Enterprise, Small Business

Catalog Object Cloud