DELL OptiPlex 3020 Intel® Core™ i3 i3-4160T 4 GB DDR3L-SDRAM 500 GB HDD Windows 7 Professional Mini PC Black

Brand : DELL   **Product family:** OptiPlex   **Article code:** 3020-8307

Product name : 3020

DELL OptiPlex 3020. Processor frequency: 3,1 GHz, Processor family: Intel® Core™ i3, Processor model: i3-4160T. Internal memory: 4 GB, Internal memory type: DDR3L-SDRAM, Memory clock speed: 1600 MHz. Total storage capacity: 500 GB, Storage media: HDD. On-board graphics card model: Intel® HD Graphics 4400. Operating system installed: Windows 7 Professional, Operating system architecture: 64-bit. Power supply: 65 W. Chassis type: Mini PC. Product type: Mini PC. Product color: Black

Processor

Processor manufacturer *	Intel
Processor family *	Intel® Core™ i3
Processor generation	4th gen Intel® Core™ i3
Processor model *	i3-4160T
Processor cores	2
Processor threads	4
Processor frequency *	3,1 GHz
Processor socket	LGA 1150 (Socket H3)
Processor cache	3 MB
Processor cache type	Smart Cache
System bus rate	5 GT/s
Bus type	DMI
FSB Parity	✕
Processor lithography	22 nm
Processor operating modes	64-bit
Processor series	Intel Core i3-4100 Desktop series
Processor codename	Haswell
Thermal Design Power (TDP)	35 W
Tcase	66,4 °C
PCI Express slots version	3.0
Maximum number of PCI Express lanes	16
PCI Express configurations	1x16, 2x8, 1x8+2x4
Number of processors installed	1
Stepping	C0
Maximum internal memory supported by processor	32 GB

Software

Operating system installed *	Windows 7 Professional

Processor special features

Intel® Small Business Advantage (Intel® SBA)	✕
Intel® Wireless Display (Intel® WiDi)	✔
Intel 64	✔
Enhanced Intel SpeedStep Technology	✔
Embedded options available	✕
Intel® InTru™ 3D Technology	✔
Intel® Insider™	✕
Intel® Clear Video HD Technology (Intel® CVT HD)	✔
Intel Clear Video Technology	✕
Intel VT-x with Extended Page Tables (EPT)	✔
Intel TSX-NI	✕
Idle States	✔
Thermal Monitoring Technologies	✔
Intel Stable Image Platform Program (SIPP)	✕
Intel® AES New Instructions (Intel® AES-NI)	✔
Intel® Secure Key	✔
Intel Trusted Execution Technology	✕

Processor

Memory types supported by processor	DDR3-SDRAM
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	DDR3L-SDRAM
Memory layout (slots x size)	1 x 4 GB
Memory slots	2x SO-DIMM
Memory clock speed	1600 MHz
Memory channels	Dual-channel

Storage

Total storage capacity *	500 GB
Storage media *	HDD
Optical drive type *	✘
Number of storage drives installed	1
Number of HDDs installed	1
HDD capacity	500 GB
HDD interface	SATA
HDD speed	7200 RPM
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	200 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 *	4
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
Combo headphone/mic port	✔

Design

Processor special features

Execute Disable Bit	✔
Intel FDI Technology	✘
Intel Flex Memory Access	✘
Intel Fast Memory Access	✘
Intel® Smart Cache	✔
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	SR1PH
Scalability	1S
CPU configuration (max)	1
Graphics & IMC lithography	22 nm
Thermal solution specification	PCG 2013A
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	77489
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 *	65 W
Power supply input voltage	100 - 240 V
Power supply input frequency	5/60 Hz

Certificates

Compliance certificates	RoHS

Sustainability

Sustainability certificates	ENERGY STAR

Weight & dimensions

Width *	36 mm
Depth *	176 mm
Height *	182 mm
Weight *	1,28 kg

Design

Chassis type *	Mini PC
Volume	1,9 L
Placement supported	Horizontal/Vertical
Water cooling system	✘
Number of 2.5" bays	1
Cable lock slot	✔
Product color *	Black

Performance

Motherboard chipset	Intel® H81
Compatible processor series	Intel Pentium G
Product type *	Mini PC

Software

Operating system architecture	64-bit
Recovery operating system	Windows 8.1

Packaging content

Mouse included	✔
Keyboard included	✔
Cables included	AC
Manual	✔

Display

Display included *	✘

Other features

Intel® Virtualization Technology (Intel® VT)	VT-x
Intel segment tagging	Enterprise, Small Business

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