DELL OptiPlex 3020 Intel Pentium G G3220 4 GB DDR3-SDRAM 500 GB HDD Windows 7 Professional SFF PC Black, Grey

Brand : DELL   **Product family:** OptiPlex   **Article code:** 3020-5481

Product name : 3020

DELL OptiPlex 3020. Processor frequency: 3 GHz, Processor family: Intel Pentium G, Processor model: G3220. 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. Operating system installed: Windows 7 Professional, Operating system architecture: 64-bit. Power supply: 255 W. Chassis type: SFF. Product type: PC

Processor

Processor manufacturer *	Intel
Processor family *	Intel Pentium G
Processor model *	G3220
Processor cores	2
Processor threads	2
Processor frequency *	3 GHz
Processor socket	LGA 1150 (Socket H3)
Processor cache	3 MB
Processor cache type	Smart Cache
System bus rate	5 GT/s
Bus type	QPI
FSB Parity	✘
Processor lithography	22 nm
Processor operating modes	64-bit
Processor series	Intel Pentium G3000 series for Desktop
Processor codename	Haswell
Thermal Design Power (TDP)	54, 53
Tcase	72 °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
Memory types supported by processor	DDR3-SDRAM
Memory clock speeds supported by processor	1333 MHz
Memory bandwidth supported by processor (max)	25,6 GB/s
ECC supported by processor	✔

Performance

Password protection type	BIOS
Trusted Platform Module (TPM)	✔
Product type *	PC

Software

Operating system installed *	Windows 7 Professional
Operating system architecture	64-bit

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 Trusted Execution Technology	✘
Execute Disable Bit	✔
Intel FDI Technology	✘
Intel Flex Memory Access	✘

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 storage drives supported	1
Number of HDDs installed	1
HDD capacity	500 GB
HDD interface	SATA
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
On-board graphics card base frequency	350 MHz
On-board graphics card dynamic frequency (max)	1100 MHz
Maximum on-board graphics card memory	1,74 GB
Number of displays supported (on-board graphics)	3
On-board graphics card DirectX version	11.1

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	✔
DC-in jack	✔

Expansion slots

PCI Express x1 slots	1
PCI Express x16 slots	1

Design

Chassis type *	SFF
Placement supported	Vertical

Processor special features

Intel Fast Memory Access	✘
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	SSE4.1, SSE4.2
Processor code	SR1CG
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 Virtualization Technology (VT-x)	✔
Intel TSX-NI version	0,00
Intel Dual Display Capable Technology	✘
Intel Rapid Storage Technology	✘
Processor ARK ID	77773
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	230 V

Certificates

Compliance certificates	RoHS
Certification	CECP, WEEE

Sustainability

Sustainability certificates	ENERGY STAR

Weight & dimensions

Width *	93 mm
Depth *	312 mm
Height *	290 mm
Weight *	6 kg

Packaging content

Mouse included	✘
Keyboard included	✘

Display

Display included *	✘

Other features

Optical drives quantity	1

Design

Water cooling system	✘
Number of 3.5" bays	1
Number of 5.25" bays	1
Cable lock slot	✔
Product color *	Black, Grey

Performance

Motherboard chipset	Intel® H81

Other features

Dell E-Value Code	SM002D3020SFF82
Intel segment tagging	Enterprise, Small Business

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