



DELL OptiPlex 3020 Intel Core i5 i5-4590 8 GB DDR3-SDRAM 500 GB HDD Windows 7 Professional Mini Tower PC Itim, pilak

Brand : DELL

Product family: OptiPlex

Product code: 3020-5364

Product name : 3020

DELL OptiPlex 3020. Prikwensiya ng processor: 3,3 GHz, Pamilya ng processor: Intel Core i5, Modelo ng processor: i5-4590. Panloob na memory: 8 GB, Uri ng panloob na memory: DDR3-SDRAM, Bilis ng orasan ng memory: 1600 MHz. Kabuuang kapasidad ng storage: 500 GB, Storage media: HDD, Uri ng optical drive: DVD±RW. On-board na modelo ng graphics card: Intel HD Graphics 4600. Naka-install ang operating system: Windows 7 Professional, Arkitektura ng operating system: 64-bit. Supply ng kuryente: 290 W. Uri ng chassis: Mini Tower. Uri ng produkto: PC



Processor		Software	
Gumagawa ng processor *	Intel	Arkitektura ng operating system	64-bit
Pamilya ng processor *	Intel Core i5	Wika ng operating system	Multilingual
Henerasyon ng processor	Intel Core i5-4xxx	Pagbawi na operating system	Windows 8.1 Pro
Modelo ng processor *	i5-4590	Naka-install ang operating system *	Windows 7 Professional
Mga core ng processor	4	May kasamang mga driver	✓
Mga thread ng processor	4	Pagsubok na software	Microsoft Office
Prikwensiya ng pagpapalakas ng processor	3,7 GHz	Mga espesyal na feature ng processor	
Prikwensiya ng processor *	3,3 GHz	Intel® Small Business Advantage (Intel® SBA)	✗
Socket ng processor	LGA 1150 (Socket H3)	Intel® Wireless Display (Intel® WiDi)	✓
Cache ng processor	6 MB	Intel 64	✓
Uri ng cache ng processor	L3	Pinahusay na Intel SpeedStep Technology	✓
Rate ng bus ng system	5 GT/s	Available ang mga naka-embed na opsyon	✗
Uri ng bus	DMI2	Intel® InTru™ 3D Technology	✓
Pagkakapantay-pantay ng FSB	✗	Intel® Insider™	✓
Lithography ng processor	22 nm	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Mga mode ng pagpapatakbo ng processor	64-bit	Intel Clear Video Technology	✗
Serye ng processor	Intel Core i5-4500 Desktop Series	Intel VT-x na may Extended Page Tables (EPT)	✓
Codename ng processor	Haswell	Intel TSX-NI	✗
Thermal Design Power (TDP)	84 W	Idle States	✓
Tcase	72,72 °C	Thermal Monitoring Technologies	✓
Bersyon ng mga slot ng PCI Express	3.0	Intel Stable Image Platform Program (SIPP)	✓
Maximum na bilang ng mga linya ng PCI Express	16	Intel® AES Bagong Mga Tagubilin (Intel® AES-NI)	✓
Mga pagsasaayos ng PCI Express	1x16, 2x8, 1x8+2x4	Intel® Secure Key	✓
Bilang ng mga naka-install na processor	1	Intel® OS Guard	✓
Paghakbang	C0	Intel Trusted Execution Technology	✓
Maximum na panloob na memory na suportado ng processor	32 GB	Ipatupad ang Disable Bit	✓
Mga uri ng memory na suportado ng processor	DDR3-SDRAM	Intel FDI Technology	✓
Mga bilis ng memory clock na suportado ng processor	1333,1600 MHz	Intel Flex Memory Access	✗
Bandwidth ng memory na suportado ng processor (max)	25,6 GB/s	Intel Fast Memory Access	✗
Suportado ng processor ng ECC	✗		

Memory		Mga espesyal na feature ng processor	
Panloob na memory *	8 GB	Intel® Smart Cache	✓
Maximum na panloob na memory *	16 GB	Intel Enhanced Halt State	✓
Uri ng panloob na memory	DDR3-SDRAM	Intel Demand Based Switching	✗
Layout ng memory (mga puwang x laki)	2 x 4 GB	Intel® Clear Video Technology para sa Mga Mobile Internet Device (Intel CVT para sa MID)	✗
Mga puwang ng memory	2x DIMM	Laki ng package ng processor	37.5 x 37.5 milimetro
Bilis ng orasan ng memory	1600 MHz	Mga suportadong set ng pagtuturo	AVX 2.0, SSE4.1, SSE4.2
Hindi ECC	✓	Code ng processor	SR1QJ
Mga channel ng memory	Dual-channel	Scalability	1S
Storage		Configuration ng CPU (max)	1
Kabuuang kapasidad ng storage *	500 GB	Graphics at IMC lithography	22 nm
Storage media *	HDD	Mga pagtutukoy ng thermal na solusyon	PCG 2013D
Uri ng optical drive *	DVD±RW	Intel Virtualization Technology para sa Nakadirektang I/O (VT-d)	✓
Bilang ng mga storage drive na naka-install	1	Bersyon ng Intel Identity Protection Technology	1,00
Bilang ng mga naka-install na HDD	1	Bersyon ng Intel Stable Image Platform Program (SIPP)	1,00
Kapasidad ng HDD	500 GB	Bersyon ng Intel Secure Key Technology	1,00
Interface ng HDD	SATA	Intel Virtualization Technology (VT-x)	✓
Bilis ng HDD	7200 RPM	Bersyon ng Intel Small Business Advantage (SBA).	1,00
Mga graphic		Bersyon ng Intel TSX-NI	0,00
On-board na graphics card *	✓	Intel Dual Display Capable Technology	✗
Discrete na modelo ng graphics card *	Hindi magagamit	Intel Rapid Storage Technology	✗
Pamilya ng on-board ng graphics card	Intel HD Graphics	Processor ARK ID	80815
On-board na modelo ng graphics card *	Intel HD Graphics 4600	Intel® Smart Response Technology	✗
On-board na prikwensiya ng graphics card base	350 MHz	Intel® Rapid Start Technology	✗
On-board na prikwensiya ng graphics card dynamic (max)	1150 MHz	Intel® Turbo Boost Technology	2.0
Maximum na memory ng on-board graphics card	2 GB	Intel Smart Connect Technology	✗
Bilang ng mga display na suportado (on-board graphics)	3	Intel® Hyper Threading Technology (Intel® HT Technology)	✗
Bersyon ng DirectX sa on-board na graphics card	11.1	Intel® Quick Sync Video Technology	✓
On-board na graphics card ID	0x412	Intel® My WiFi Technology (Intel® MWT)	✓
Network		Intel® Identity Protection Technology (Intel® IPT)	✓
LAN ng ethernet *	✓	Intel® Anti-Theft Technology (Intel® AT)	✓
Mga rate ng data ng Ethernet LAN	10,100,1000 Mbit/s	Walang salungatan na na processor	✓
Wi-Fi *	✗	Kuryente	
Mga port at interface		Supply ng kuryente *	290 W
Dami ng USB 2.0 port *	6	Input na boltahe ng supply ng kuryente	100 - 240 V
Dami ng Type-A port na USB 3.2 Gen 1 (3.1 Gen 1) *	2	Dalas ng input ng supply ng kuryente	50 - 60 Hz
Dami ng mga port ng VGA (D-Sub).	1	Mga sertipiko	
DVI na port	✗	Compliance certificates	RoHS
Dami ng DisplayPorts	1	Sertipikasyon	CECP, WEEE, Energy Law, E-standby
Mga port ng Ethernet LAN (RJ-45).	1	Pagpapanatili	
Nakapasok ang mikropono	✓	Mga sertipiko ng pagpapanatili	ENERGY STAR
Mga output ng headphone	1	Timbang at sukat	
Line-out	✓	Lapad *	175 milimetro
Line-in	✓	Lalim *	417 milimetro
Mga slot sa pagpapalawak		Height *	360 milimetro
Mga puwang ng PCI Express x1	3	Timbang *	9,4 kilo
Mga puwang ng PCI Express x16	1	Disenyo	
Disenyo		Uri ng chassis *	Mini Tower

Disenyo		Nilalaman ng packaging	
Suportado ang pagkakalagay	Patayo	May kasamang mouse	✗
Sistema ng paglamig ng tubig	✗	May kasamang keyboard	✗
Bilang ng 3.5" bay	2	May kasamang mga cable	AC
Bilang ng 5.25" bay	2	Manwal	✓
Puwang ng lock ng cable	✓	Display	
Kulay ng produkto *	Itim, pilak	May kasamang display *	✗
Pagganap		Iba pang mga feature	
Chipset ng motherboard	Intel H81	Optical drives quantity	1
Proteksyon ng password	✓	Intel® Virtualization Technology (Intel® VT)	VT-d, VT-x
Uri ng proteksyon ng password	BIOS	Intel segment tagging	Enterprise, Maliit na negosyo
Uri ng produkto *	PC		



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