



DELL OptiPlex 9020M Intel® Core™ i5 i5-4590T 8 GB DDR3-SDRAM 128 GB SSD Windows 7 Professional Mini PC Black

Brand : DELL

Product family: OptiPlex

Product code:
SSO9020MW7P0075

Product name : 9020M

Intel Core i5-4590T, 8GB (DDR3), 128GB (SSD), Intel HD Graphics 4600, Windows 7 Professional (64 bit) / Windows 8.1 Pro, 802.11 a/b/g/n/ac, Bluetooth 4.0 LE, 6 x USB 3.0, 1 x VGA, 1 x DisplayPort, 1 x LAN, 1.28 kg

DELL OptiPlex 9020M. Processor frequency: 2 GHz, Processor family: Intel® Core™ i5, Processor model: i5-4590T. Internal memory: 8 GB, Internal memory type: DDR3-SDRAM, Memory clock speed: 1600 MHz. Total storage capacity: 128 GB, Storage media: SSD. On-board graphics card model: Intel® HD Graphics 4600. 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 special features	
Processor manufacturer *	Intel	Intel® Wireless Display (Intel® WiDi)	✓
Processor family *	Intel® Core™ i5	Intel 64	✓
Processor generation	4th gen Intel® Core™ i5	Enhanced Intel SpeedStep Technology	✓
Processor model *	i5-4590T	Embedded options available	✓
Processor cores	4	Intel® Built-in Visuals Technology	✓
Processor threads	4	Intel® InTru™ 3D Technology	✓
Processor boost frequency	3 GHz	Intel® Insider™	✓
Processor frequency *	2 GHz	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Processor socket	LGA 1150 (Socket H3)	Intel Clear Video Technology	✗
Processor cache	6 MB	Intel VT-x with Extended Page Tables (EPT)	✓
Processor cache type	Smart Cache	Intel TSX-NI	✗
System bus rate	5 GT/s	Idle States	✓
Bus type	DMI	Thermal Monitoring Technologies	✓
FSB Parity	✗	Intel Stable Image Platform Program (SIPP)	✓
Processor lithography	22 nm	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor operating modes	32-bit, 64-bit	Intel® Secure Key	✓
Processor series	Intel Core i5-4500 Desktop Series	Intel® OS Guard	✓
Processor codename	Haswell	Intel Trusted Execution Technology	✓
Thermal Design Power (TDP)	35 W	Execute Disable Bit	✓
Tcase	66.35 °C	Intel HD Graphics	✓
PCI Express slots version	3.0	Intel FDI Technology	✓
Maximum number of PCI Express lanes	16	Intel Flex Memory Access	✗
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		

Processor		Processor special features	
Memory clock speeds supported by processor	1333,1600 MHz	Intel Fast Memory Access	✗
Memory bandwidth supported by processor (max)	25.6 GB/s	Intel® Smart Cache	✓
ECC supported by processor	✗	Intel Enhanced Halt State	✓
Memory		Intel Demand Based Switching	✗
Internal memory *	8 GB	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✗
Maximum internal memory *	16 GB	Processor package size	37.5 x 37.5 mm
Internal memory type	DDR3-SDRAM	Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
Memory layout (slots x size)	1 x 8 GB	Processor code	SR156
Memory slots	2x DIMM	Scalability	15
Memory clock speed	1600 MHz	CPU configuration (max)	1
Non-ECC	✓	Graphics & IMC lithography	22 nm
Memory channels	Dual-channel	Thermal solution specification	PCG 2013A
Storage		Intel Virtualization Technology for Directed I/O (VT-d)	✓
Total storage capacity *	128 GB	Intel Identity Protection Technology version	1.00
Storage media *	SSD	Intel Stable Image Platform Program (SIPP) version	1.00
Optical drive type *	✗	Intel Secure Key Technology version	1.00
Number of SSDs installed	1	Intel Virtualization Technology (VT-x)	✓
SSD capacity	128 GB	Intel Small Business Advantage (SBA) version	1.00
Card reader integrated	✗	Intel TSX-NI version	0.00
Graphics		Intel Dual Display Capable Technology	✗
On-board graphics card *	✓	Intel Rapid Storage Technology	✗
Discrete graphics card model *	Not available	Processor ARK ID	78928
On-board graphics card family	Intel® HD Graphics	Intel® Turbo Boost Technology	2.0
On-board graphics card model *	Intel® HD Graphics 4600	Intel® Hyper Threading Technology (Intel® HT Technology)	✗
On-board graphics card base frequency	350 MHz	Intel® Quick Sync Video Technology	✓
On-board graphics card dynamic frequency (max)	1150 MHz	Intel® My WiFi Technology (Intel® MWT)	✓
Maximum on-board graphics card memory	1.024 GB	Intel® Identity Protection Technology (Intel® IPT)	✓
Number of displays supported (on-board graphics)	3	Intel® Anti-Theft Technology (Intel® AT)	✓
On-board graphics card DirectX version	11.1	Conflict-Free processor	✓
On-board graphics card ID	0x412	Power	
Network		Power supply *	65 W
Ethernet LAN *	✓	Power supply input voltage	100 - 240 V
Ethernet LAN data rates	10,100,1000 Mbit/s	Power supply input frequency	50 - 60 Hz
Cabling technology	10/100/1000Base-T(X)	Operational conditions	
Wi-Fi *	✓	Operating temperature (T-T)	5 - 35 °C
Top Wi-Fi standard	Wi-Fi 5 (802.11ac)	Storage temperature (T-T)	-40 - 65 °C
Wi-Fi standards	802.11a, Wi-Fi 5 (802.11ac), 802.11b, 802.11g, Wi-Fi 4 (802.11n)	Operating relative humidity (H-H)	20 - 80%
Bluetooth	✓	Storage relative humidity (H-H)	5 - 95%
Bluetooth version	4.0	Operating altitude	-15.2 - 3048 m
Bluetooth Low Energy (BLE)	✓	Non-operating altitude	-15.2 - 10668 m
Ports & interfaces		Certificates	
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	6	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 *	36 mm
Microphone in	✓	Depth *	176 mm
Headphone outputs	1	Height *	182 mm

Design		Weight & dimensions	
Chassis type *	Mini PC	Weight *	1.28 kg
Volume	1.2 L	Packaging content	
Placement supported	Horizontal/Vertical	Mouse included	✗
Water cooling system	✗	Keyboard included	✗
Number of 2.5" bays	1	Cables included	AC
Product color *	Black	Manual	✓
Performance		AC adapter included	✓
Motherboard chipset	Intel® Q87	Display	
Audio system	HD	Display included *	✗
Password protection	✓	Other features	
Product type *	Mini PC	Intel® Virtualization Technology (Intel® VT)	VT-d, VT-x
Software		Intel segment tagging	Enterprise, Small Business
Operating system architecture	64-bit		
Operating system language	English		
Recovery operating system	Windows 8.1 Pro		
Operating system installed *	Windows 7 Professional		
Trial software	Microsoft Office		
Processor special features			
Intel® Small Business Advantage (Intel® SBA)	✓		

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