



HP 420 + Z23i Intel® Xeon® E5 Family E5-1620V2 8 GB DDR3-SDRAM 1 TB HDD Windows 7 Professional Mini Tower Workstation Black

Brand : HP

Product code: WM612EA#KIT1

Product name : 420 + Z23i



Intel Xeon E5-1620 v2 (3.7GHz, 10MB), 8GB (4 x 2GB) DDR3, 1TB SATA 7200 rpm, SATA SuperMulti DVD±RW, Windows 7 Professional 64 / Windows 8.1 Pro 64 + Z23i 23 Inch IPS Monitor (D7Q13A4)
HP 420 + Z23i. Processor frequency: 3.7 GHz, Processor family: Intel® Xeon® E5 Family, Processor: E5-1620V2. Internal memory: 8 GB, Internal memory type: DDR3-SDRAM, Memory clock speed: 1866 MHz. Total storage capacity: 1 TB, Storage media: HDD, Optical drive: DVD Super Multi. Operating system installed: Windows 7 Professional, Operating system architecture: 64-bit. Power supply: 600 W. Form factor: Mini Tower. Product type: Workstation. Product colour: Black



Processor		Software	
Processor manufacturer *	Intel	Operating system architecture	64-bit
Processor family *	Intel® Xeon® E5 Family	Recovery operating system	Windows 8.1 Pro
Processor *	E5-1620V2	Operating system installed *	Windows 7 Professional
Processor number of cores	4	Processor special features	
Processor threads	8	Intel Wireless Display (WiDi) Technology	✗
Processor boost frequency	3.9 GHz	Intel 64	✓
Processor frequency *	3.7 GHz	Enhanced Intel SpeedStep Technology	✓
Processor socket	LGA 2011 (Socket R)	Embedded options available	✗
Processor cache	10 MB	Intel® InTru™ 3D Technology	✗
Processor cache type	Smart Cache	Intel® Insider™	✗
Bus type	QPI	Intel Clear Video HD Technology	✗
FSB Parity	✗	Intel Clear Video Technology	✗
Processor lithography	22 nm	Intel VT-x with Extended Page Tables (EPT)	✓
Processor operating modes	64-bit	Intel TSX-NI	✗
Processor series	Intel Xeon E5-1600 v2	Idle States	✓
Processor codename	Ivy Bridge EP	Thermal Monitoring Technologies	✓
Thermal Design Power (TDP)	130 W	Intel AES New Instructions	✓
Tcase	70 °C	Intel® Secure Key	✓
PCI Express slots version	3.0	Intel® OS Guard	✓
Maximum number of PCI Express lanes	40	Intel Trusted Execution Technology	✓
PCI Express configurations	x4, x8, x16	Execute Disable Bit	✓
Number of processors installed	1	Intel FDI Technology	✗
Maximum internal memory supported by processor	256 GB	Intel Flex Memory Access	✗
Memory types supported by processor	DDR3-SDRAM		
Memory clock speeds supported by processor	800,1066,1333,1600,1866 MHz		

Processor		Processor special features	
Memory bandwidth supported by processor (max)	59.7 GB/s	Intel Fast Memory Access	✗
ECC supported by processor	✓	Intel® Smart Cache	✓
Memory		Intel Enhanced Halt State	✓
		Intel Demand Based Switching	✓
		Intel Clear Video Technology for MID	✗
		Processor package size	52.5 x 45.0 mm
		Supported instruction sets	AVX
		Scalability	15
		CPU configuration (max)	1
		Intel Virtualization Technology for Directed I/O (VT-d)	✓
Storage		Intel Identity Protection Technology version	0.00
		Intel Secure Key Technology version	1.00
		Intel Virtualization Technology (VT-x)	✓
		Intel TSX-NI version	0.00
		Intel Dual Display Capable Technology	✗
		Intel Rapid Storage Technology	✗
		Processor ARK ID	75779
		Intel Turbo Boost Technology	2.0
Graphics		Intel Hyper-Threading Technology	✓
		Intel® Quick Sync Video Technology	✗
		Intel My WiFi Technology	✗
		Intel Identity Protection Technology	✗
		Intel Anti-Theft Technology	✗
		Conflict-Free processor	✗
		Power	
		Power supply *	600 W
Network		Sustainability	
		Sustainability certificates	ENERGY STAR
		Weight & dimensions	
		Width *	177.8 mm
		Depth *	445.2 mm
		Height *	447.6 mm
		Weight *	12.5 kg
		Packaging content	
Ports & interfaces		Mouse included	✗
		Keyboard included	✓
		Display	
		Display included *	✓
		Display diagonal	58.4 cm (23")
		Display resolution	1920 x 1080 pixels
		Native aspect ratio	16:9
		Contrast ratio (typical)	1000:1
Expansion slots		Display brightness	250 cd/m²
		Viewing angle, horizontal	178°
		Viewing angle, vertical	178°
		Other features	
		Optical drives quantity	1
		Full HD	✓
		BD interface type	SATA
		Performance	
Design		Chipset	Intel® C602
		Audio system	HD
		Product type *	Workstation

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