HP

HP Z620 E5-2650V2 Mini Tower Intel® Xeon® E5 V2 Family 16 GB DDR3-SDRAM 1256 GB HDD+SSD Windows 7 Professional Workstation Black, Stainless steel

Brand : HP

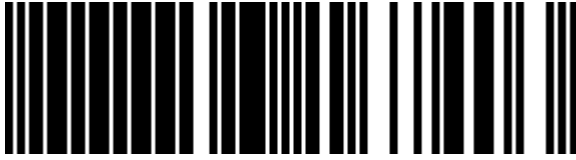**Product code:** G9N93PA

Product name : Z620

Intel Xeon E5-2650v2 (2.6GHz, 20MB cache, 8 cores), Intel C602, 16GB 1866MHz DDR3 ECC, 256GB SATA SSD, 1TB 7200rpm SATA, NVIDIA Quadro K4000 3GB, SuperMulti DVD, Gigabit Ethernet, Windows 7 Professional 32-bit/Windows 8.1 Pro 64-bit
HP Z620. Processor frequency: 2.6 GHz, Processor family: Intel® Xeon® E5 V2 Family, Processor: E5-2650V2. Internal memory: 16 GB, Internal memory type: DDR3-SDRAM, Memory clock speed: 1866 MHz. Total storage capacity: 1256 GB, Storage media: HDD+SSD, Optical drive type: DVD Super Multi. Discrete graphics card model: NVIDIA® Quadro® K4000. Operating system installed: Windows 7 Professional, Operating system architecture: 32-bit. Power supply: 800 W. Chassis type: Mini Tower. Product type: Workstation

Processor

Processor manufacturer *	Intel
Processor *	E5-2650V2
Processor family *	Intel® Xeon® E5 V2 Family
Processor number of cores	8
Processor boost frequency	3.4 GHz
Processor frequency *	2.6 GHz
Processor socket	LGA 2011 (Socket R)
Processor cache	20 MB
Processor cache type	Smart Cache
Processor threads	16
System bus data transfer rate	8 GT/s
Bus type	QPI
FSB Parity	✖
Processor lithography	22 nm
Processor operating modes	64-bit
Processor series	Intel Xeon E5-2600 v2
Processor codename	Ivy Bridge EP
Thermal Design Power (TDP)	95 W
Tcase	75 °C
PCI Express slots version	3.0
Maximum number of PCI Express lanes	40
PCI Express configurations	x4, x8, x16
Number of processors installed	1
Number of QPI links	2
Maximum internal memory supported by processor	768 GB
Memory types supported by processor	DDR3-SDRAM
Memory clock speeds supported by processor	800,1066,1333,1600,1866 MHz
Memory bandwidth supported by processor (max)	59.7 GB/s
ECC supported by processor	✔

Design

Chassis type *	Mini Tower
Water cooling system	✖
Product colour *	Black, Stainless steel
Country of origin	China

Performance

Motherboard chipset	Intel® C602
Product type *	Workstation

Software

Operating system installed *	Windows 7 Professional
Operating system architecture	32-bit
Recovery operating system	Windows 8.1 Pro

Processor special features

Intel Wireless Display (WiDi) Technology	✖
Intel 64	✔
Enhanced Intel SpeedStep Technology	✔
Embedded options available	✖
Intel® InTru™ 3D Technology	✖
Intel® Insider™	✖
Intel Clear Video HD Technology	✖
Intel Clear Video Technology	✖
Intel VT-x with Extended Page Tables (EPT)	✔
Intel TSX-NI	✖
Idle States	✔
Thermal Monitoring Technologies	✔
Intel AES New Instructions	✔
Intel® Secure Key	✔
Intel® OS Guard	✔
Intel Trusted Execution Technology	✔
Execute Disable Bit	✔
Intel FDI Technology	✖

Memory

Internal memory *	16 GB
Internal memory type	DDR3-SDRAM
Memory layout (slots x size)	2 x 8 GB
Memory slots	12x DIMM
Memory clock speed	1866 MHz
ECC	✓
Memory channels	Quad-channel

Storage

Total storage capacity *	1256 GB
Storage media *	HDD+SSD
Optical drive type *	DVD Super Multi
Total HDDs capacity	1000 GB
Number of hard drives installed	1
Hard drive capacity	1000 GB
Hard drive interface	SATA
Hard drive rotational speed	7200 RPM
Total SSDs capacity	256 GB
Number of SSDs installed	1
Solid-state drive capacity	256 GB
Solid-state drive interfaces	SATA

Graphics

Discrete graphics card model *	NVIDIA® Quadro® K4000
Discrete graphics card memory	3072 GB

Network

Ethernet LAN connection *	✓
Ethernet LAN data rates	10,100,1000 Mbit/s
Wi-Fi *	✘

Ports & interfaces

USB 2.0 ports quantity *	5
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	4
DVI port	✘
PS/2 ports quantity	2
Firewire (IEEE 1394) ports	2
Ethernet LAN (RJ-45) ports quantity	1
Microphone in	✓
Headphone outputs	1
Line-out	✓
Line-in	✓
DC-in jack	✓

Expansion Slots

PCI Express x4 (Gen 2.x) slots	1
PCI Express x8 (Gen 2.x) slots	1
PCI Express x8 (Gen 3.x) slots	1
PCI Express x16 (Gen 3.x) slots	2

Processor special features

Intel Flex Memory Access	✘
Intel Fast Memory Access	✘
Intel Enhanced Halt State	✓
Intel Demand Based Switching	✓
Intel Clear Video Technology for MID	✘
Processor package size	52.5 x 51 mm
Supported instruction sets	AVX
Scalability	2S
Physical Address Extension (PAE)	46 bit
CPU configuration (max)	2
Intel Virtualization Technology for Directed I/O (VT-d)	✓
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	75269
Intel Turbo Boost Technology	2.0
Intel Hyper-Threading Technology	✓
Intel® Quick Sync Video Technology	✘
Intel My WiFi Technology	✘
Intel Identity Protection Technology	✘
Intel Anti-Theft Technology	✘
Conflict-Free processor	✘

Energy Management

Power supply *	800 W

Sustainability

Sustainability certificates	ENERGY STAR

Weight & Dimensions

Width *	171.5 mm
Depth *	464.8 mm
Height *	444.5 mm
Weight *	15.5 kg

Packaging Content

Display included *	✘
Mouse included	✘
Keyboard included	✓

Other features

Optical drives quantity	1
Intel Virtualization Technology	VT-d, VT-x

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