



HP Z230 E3-1225V3 SFF Intel® Xeon® E3 V3 Family 4 GB DDR3-SDRAM 500 GB HDD Windows 7 Professional Workstation Black

Brand : HP

Product code: F6A56UC

Product name : Z230

Intel Xeon E3-1225V3 (3.2GHz, 8MB, 4 Cores), 4GB DDR3-SDRAM 1600MHz (1 x 4), 500GB SATA HDD 7200, DVD Super Multi DL, Intel HD Graphics P4600, Gigabit LAN, Windows 7 Professional 64-bit HP Z230. Processor frequency: 3.2 GHz, Processor family: Intel® Xeon® E3 V3 Family, Processor: E3-1225V3. 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 Super Multi DL. On-board graphics card model: Intel® HD Graphics P4600. Operating system installed: Windows 7 Professional, Operating system architecture: 64-bit. Chassis type: SFF. Product type: Workstation. Product colour: Black



Processor		Expansion Slots	
Processor manufacturer *	Intel	PCI Express x4 (Gen 2.x) slots	1
Processor *	E3-1225V3	PCI Express x16 (Gen 3.x) slots	1
Processor family *	Intel® Xeon® E3 V3 Family	Design	
Processor number of cores	4	Chassis type *	SFF
Processor frequency *	3.2 GHz	Placement supported	Vertical
Processor boost frequency	3.6 GHz	Number of 3.5" bays	1
Processor socket	LGA 1150 (Socket H3)	Number of 5.25" bays	1
Processor cache	8 MB	Number of 2.5" bays	1
Processor cache type	Smart Cache	Product colour *	Black
Processor threads	4	Country of origin	China
Bus type	QPI	Performance	
Processor lithography	22 nm	Product type *	Workstation
Processor operating modes	64-bit	Software	
Processor series	Intel Xeon E3-1200 v3	Operating system installed *	Windows 7 Professional
Processor codename	Haswell	Operating system architecture	64-bit
Thermal Design Power (TDP)	84 W	Processor special features	
PCI Express slots version	3.0	Intel 64	✓
Maximum number of PCI Express lanes	16	Enhanced Intel SpeedStep Technology	✓
PCI Express configurations	1x16, 2x8, 1x8+2x4	Embedded options available	✓
Number of processors installed	1	Intel® Built-in Visuals Technology	✓
Number of QPI links	1	Intel® InTru™ 3D Technology	✓
Stepping	C0	Intel Clear Video HD Technology	✓
Maximum internal memory supported by processor	32 GB	Intel VT-x with Extended Page Tables (EPT)	✓
Memory types supported by processor	DDR3-SDRAM	Intel TSX-NI	✓
Memory clock speeds supported by processor	1333,1600 MHz	Idle States	✓
Memory bandwidth supported by processor (max)	25.6 GB/s	Thermal Monitoring Technologies	✓
ECC supported by processor	✓	Intel Stable Image Platform Program (SIPP)	✓
Memory voltage supported by processor	1.5 V	Intel AES New Instructions	✓
Memory		Intel® Secure Key	✓
		Intel® OS Guard	✓

Memory		Processor special features	
Internal memory *	4 GB	Intel Trusted Execution Technology	✓
Maximum internal memory *	32 GB	Execute Disable Bit	✓
Internal memory type	DDR3-SDRAM	Intel HD Graphics	✓
Memory layout (slots x size)	1 x 4 GB	Intel FDI Technology	✓
Memory slots	4x DIMM	Intel Flex Memory Access	✓
Memory clock speed	1600 MHz	Intel Fast Memory Access	✓
ECC	✓	Intel® Smart Cache	✓
Memory channels	Dual-channel	Intel Enhanced Halt State	✓
Storage		Processor package size	37.5 x 37.5 mm
Card reader integrated	✓	Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
Total storage capacity *	500 GB	Processor code	SR14U
Storage media *	HDD	Scalability	1S
Optical drive type *	DVD Super Multi DL	CPU configuration (max)	1
Number of storage drives installed	1	Graphics & IMC lithography	22 nm
Number of hard drives installed	1	Thermal solution specification	PCG 2013D
Hard drive capacity	500 GB	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Hard drive interface	SATA	Intel Identity Protection Technology version	1.00
Hard drive rotational speed	7200 RPM	Intel Stable Image Platform Program (SIPP) version	1.00
Graphics		Intel Secure Key Technology version	1.00
Discrete graphics card model *	Not available	Intel Virtualization Technology (VT-x)	✓
On-board graphics card *	✓	Intel TSX-NI version	1.00
On-board graphics card family	Intel® HD Graphics	Intel Dual Display Capable Technology	✓
On-board graphics card model *	Intel® HD Graphics P4600	Processor ARK ID	75461
On-board graphics card base frequency	350 MHz	Intel Turbo Boost Technology	2.0
On-board graphics card dynamic frequency (max)	1200 MHz	Intel Hyper-Threading Technology	✗
Number of displays supported (on-board graphics)	3	Intel® Quick Sync Video Technology	✓
Network		Intel Identity Protection Technology	✓
Ethernet LAN connection *	✓	Intel Anti-Theft Technology	✓
Ethernet LAN data rates	10,100,1000 Mbit/s	Conflict-Free processor	✗
Ports & interfaces		Weight & Dimensions	
USB 2.0 ports quantity *	6	Width *	338.3 mm
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	4	Depth *	381.5 mm
DVI port	✓	Height *	105 mm
DisplayPorts quantity	3	Weight *	7.2 kg
PS/2 ports quantity	2	Packaging Content	
Ethernet LAN (RJ-45) ports quantity	1	Display included *	✗
Microphone in	✓	Mouse included	✗
Headphone outputs	1	Keyboard included	✗
Line-out	✓		
Line-in	✓		
Expansion Slots			
PCI Express x1 (Gen 2.x) slots	2		

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