



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

Brand : HP

Product code: D1P35AV

Product name : Z230 SFF

Intel Xeon E3-1225v3 3.2GHz, 4GB DDR3 1600MHz, 500GB 7200 rpm SATA, Intel HD Graphics P4600, DVD SuperMulti, Windows 7 Pro 64-bit/Windows 8 Pro 64-bit  
HP Z230 SFF. Processor frequency: 3.2 GHz, Processor family: Intel® Xeon® E3 V3 Family, Processor model: 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. On-board graphics card model: Intel® HD Graphics P4600. Operating system installed: Windows 7 Professional, Operating system architecture: 64-bit. Power supply: 240 W. Chassis type: SFF. Product type: Workstation



Processor		Design	
Processor manufacturer *	Intel	Country of origin	China
Processor family *	Intel® Xeon® E3 V3 Family	Performance	
Processor model *	E3-1225V3	Motherboard chipset	Intel® C226
Processor cores	4	Product type *	Workstation
Processor threads	4	Software	
Processor boost frequency	3.6 GHz	Operating system architecture	64-bit
Processor frequency *	3.2 GHz	Recovery operating system	Windows 8 Pro
Processor socket	LGA 1150 (Socket H3)	Operating system installed *	Windows 7 Professional
Processor cache	8 MB	Processor special features	
Processor cache type	Smart Cache	Intel® Wireless Display (Intel® WiDi)	✗
Bus type	QPI	Intel 64	✓
FSB Parity	✗	Enhanced Intel SpeedStep Technology	✓
Processor lithography	22 nm	Embedded options available	✓
Processor operating modes	64-bit	Intel® InTru™ 3D Technology	✓
Processor series	Intel Xeon E3-1200 v3	Intel® Insider™	✗
Processor codename	Haswell	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Thermal Design Power (TDP)	84 W	Intel Clear Video Technology	✗
PCI Express slots version	3.0	Intel VT-x with Extended Page Tables (EPT)	✓
Maximum number of PCI Express lanes	16	Intel TSX-NI	✓
PCI Express configurations	1x16, 2x8, 1x8+2x4	Idle States	✓
Number of processors installed	1	Thermal Monitoring Technologies	✓
Number of QPI links	1	Intel Stable Image Platform Program (SIPP)	✓
Stepping	C0	Intel® AES New Instructions (Intel® AES-NI)	✓
Maximum internal memory supported by processor	32 GB	Intel® Secure Key	✓
Memory types supported by processor	DDR3-SDRAM		
Memory clock speeds supported by processor	1333,1600 MHz		
Memory bandwidth supported by processor (max)	25.6 GB/s		
ECC supported by processor	✓		

Memory		Processor special features	
Internal memory *	4 GB	Intel® OS Guard	✓
Maximum internal memory *	32 GB	Intel Trusted Execution Technology	✓
Internal memory type	DDR3-SDRAM	Execute Disable Bit	✓
Memory layout (slots x size)	2 x 2 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		Intel Demand Based Switching	✗
Total storage capacity *	500 GB	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✗
Storage media *	HDD	Processor package size	37.5 x 37.5 mm
Optical drive type *	DVD Super Multi	Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
Number of HDDs installed	1	Processor code	SR14U
HDD capacity	500 GB	Scalability	1S
HDD interface	SATA	CPU configuration (max)	1
HDD speed	7200 RPM	Graphics & IMC lithography	22 nm
Graphics		Thermal solution specification	PCG 2013D
On-board graphics card *	✓	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Discrete graphics card model *	Not available	Intel Identity Protection Technology version	1.00
On-board graphics card family	Intel® HD Graphics	Intel Stable Image Platform Program (SIPP) version	1.00
On-board graphics card model *	Intel® HD Graphics P4600	Intel Secure Key Technology version	1.00
On-board graphics card base frequency	350 MHz	Intel Virtualization Technology (VT-x)	✓
On-board graphics card dynamic frequency (max)	1200 MHz	Intel TSX-NI version	1.00
Number of displays supported (on-board graphics)	3	Intel Dual Display Capable Technology	✓
Network		Intel Rapid Storage Technology	✗
Ethernet LAN *	✓	Processor ARK ID	75461
Ethernet LAN data rates	10,100,1000 Mbit/s	Intel® Turbo Boost Technology	2.0
Cabling technology	10/100/1000Base-T(X)	Intel® Hyper Threading Technology (Intel® HT Technology)	✗
Ports & interfaces		Intel® Quick Sync Video Technology	✓
USB 2.0 ports quantity *	6	Intel® My WiFi Technology (Intel® MWT)	✗
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	4	Intel® Identity Protection Technology (Intel® IPT)	✓
DVI port	✗	Intel® Anti-Theft Technology (Intel® AT)	✓
PS/2 ports quantity	2	Conflict-Free processor	✗
Ethernet LAN (RJ-45) ports	1	Power	
Microphone in	✓	Power supply *	240 W
Headphone outputs	1	Weight & dimensions	
Line-out	✓	Width *	337 mm
Line-in	✓	Depth *	384 mm
Serial ports quantity	1	Height *	100 mm
Expansion slots		Weight *	7.2 kg
PCI Express x1 (Gen 2.x) slots	1	Packaging content	
PCI Express x4 (Gen 2.x) slots	1	Mouse included	✗
PCI Express x16 (Gen 2.x) slots	1	Keyboard included	✗
PCI Express x16 (Gen 3.x) slots	1	Display	
Design		Display included *	✗
Chassis type *	SFF	Other features	
Water cooling system	✗	Optical drives quantity	1
Number of 3.5" bays	3		
Number of 5.25" bays	1		
Number of 2.5" bays	1		
Product colour *	Black		

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