惠普 **Z1 27"** 英特尔®至强® 处理器 **E3** 系列 **E3-1245 68.6 cm (27")** 一体化工作站 **8 GB DDR3 1 TB HDD** 硬盘 **Windows 7 Professional**

品牌： HP　**产品系列:** Z1　**产品代码:** WM452EA#ABH

产品名称： 27"

惠普 Z1 27". 产品类型: 一体化工作站. 显示器尺寸（对角长）: 68.6 cm (27"). 处理器系列: 英特尔®至强® 处理器 E3 系列, 处理器频率: 3.3 GHz. 内置存储器: 8 GB, 内存类型: DDR3. 总存储容量: 1 TB, 储存装置: HDD 硬盘. 板载图形适配器型号: 英特尔® HD 显卡 P3000. 光驱类型: DVD-RW. 已预装操作系统: Windows 7 Professional

Display

Display diagonal *	68.6 cm (27")
Display number of colours	1.073 billion colours

Processor

Processor manufacturer *	Intel
Processor family *	Intel® Xeon® E3 Family
Processor model *	E3-1245
Processor cores	4
Processor threads	8
Processor boost frequency	3.7 GHz
Processor frequency *	3.3 GHz
Processor cache	8 MB
Processor cache type	Smart Cache
System bus rate	5 GT/s
Thermal Design Power (TDP)	95 W
PCI Express slots version	2.0
Processor socket	LGA 1155 (Socket H2)
Processor lithography	32 nm
Processor operating modes	64-bit
Stepping	D2
Bus type	DMI
Processor codename	Sandy Bridge
Processor series	Intel Xeon E3-1200
FSB Parity	✗
Maximum number of PCI Express lanes	20
Processor code	SR00L
Tcase	72.6 °C
CPU multiplier (bus/core ratio)	33
Maximum internal memory supported by processor	32 GB
Conflict-Free processor	✗
Memory types supported by processor	DDR3-SDRAM

Design

Cable lock slot	✗
Country of origin	China

Performance

Product type *	All-in-One workstation
Motherboard chipset	Intel® C206

Software

Operating system architecture	64-bit
Operating system installed *	Windows 7 Professional

Processor special features

Intel® Turbo Boost Technology	2.0
Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Intel® My WiFi Technology (Intel® MWT)	✗
Intel® Identity Protection Technology (Intel® IPT)	✓
Intel® Anti-Theft Technology (Intel® AT)	✗
Intel® Wireless Display (Intel® WiDi)	✗
Enhanced Intel SpeedStep Technology	✓
Intel® Quick Sync Video Technology	✓
Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Intel Clear Video Technology	✗
Intel® Insider™	✗
Intel® InTru™ 3D Technology	✓
Intel Flex Memory Access	✓
Intel® AES New Instructions (Intel® AES-NI)	✓
Intel Trusted Execution Technology	✓
Intel Enhanced Halt State	✓

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Processor	
Memory clock speeds supported by processor	1066,1333 MHz
Memory bandwidth supported by processor (max)	21 GB/s
Memory channels supported by processor	Dual
ECC supported by processor	✔

Memory	
Internal memory *	8 GB
Internal memory type	DDR3
Maximum internal memory *	32 GB
Memory slots	4x DIMM
Memory clock speed	1600 MHz
Memory layout (slots x size)	2 x 4 GB

Storage	
Total storage capacity *	1 TB
Storage media *	HDD
Total HDDs capacity	1 TB
Number of HDDs installed	1
HDD capacity	1 TB
HDD speed	7200 RPM
HDD interface	SATA
Optical drive type *	DVD-RW
Card reader integrated	✔

Graphics	
On-board graphics card *	✔
On-board graphics card family	Intel® HD Graphics
On-board graphics card model *	Intel® HD Graphics P3000
On-board graphics card base frequency	850 MHz
On-board graphics card dynamic frequency (max)	1350 MHz
Number of displays supported (on-board graphics)	2

Audio	
Audio system	HD

Ports & interfaces	
Ethernet LAN (RJ-45) ports	1
USB 2.0 ports quantity *	7
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2
DisplayPorts quantity	1
Headphone outputs	1
Microphone in	✔
Firewire (IEEE 1394) ports	1

Processor special features	
Intel VT-x with Extended Page Tables (EPT)	✔
Intel Demand Based Switching	✔
Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✘
Intel 64	✔
Execute Disable Bit	✔
Idle States	✔
Thermal Monitoring Technologies	✔
Processor package size	37.5 x 37.5 mm
Supported instruction sets	AVX
CPU configuration (max)	1
Embedded options available	✘
Intel Virtualization Technology for Directed I/O (VT-d)	✔
Intel Identity Protection Technology version	1.00
Intel Virtualization Technology (VT-x)	✔
Intel Advanced Vector Extensions	✔
Intel Dual Display Capable Technology	✔
Intel FDI Technology	✔
Intel Rapid Storage Technology	✘
Intel Fast Memory Access	✔
Processor ARK ID	52274

Weight & dimensions	
Width (with stand)	660.4 mm
Depth (with stand)	419.1 mm
Height (with stand)	584.2 mm
Weight (with stand)	21.3 kg

Other features	
Graphics card family	NVIDIA
Display	LCD
Display included	✔
Line-in	✔
Number of processors installed	1
Power supply	400 W
Wireless technology	802.11 a/g/n
Graphics card	Quadro 500M

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