CERTIFICATE

Certificate Id: 2PAA114572_HP_Z230

Category:	Servers and Workstation
Product Name:	Hewlett Packard Z230
Software Version:	N/A
Chipset Version:	Intel® C226 chipset
Vendor:	Hewlett Packard
Certification Test Report:	3BSE083285
Certification reference:	System 800xA Version 6.0 64bit
Restrictions:	Is only approved as Operator client with up to 2 monitors.

The certificate states that the product specified above has passed the test towards the specified integration category. The certification has been performed by an official certification center, approved by the official steering body for the Industrial IT Certification.

The basis for the certificate is documented according to the Industrial IT Certification – Document Number 3BSE037356. The certificate is valid for the above mentioned Product versions until the next major release of the certified product or the certification reference system. With a major release of the certified product or the reference system, a new certification is required to keep the certificate current.

ABB AB
721 59 Vasteras, Sweden

Date: 2015-05-20

Representative for the official steering body for the Industrial IT Certification

Jenny Sjödahl

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HP Z230

Create a totally immersive work environment for those who demand reliability and performance on a budget. Designed for heavy 24x7x365 workloads, the HP Z230 delivers next-generation processor and graphics technologies.

Certification and product details are summarized below:

Product Overview	
Processor	Intel® Core™ i7-4771, Intel Core i7-4770, Intel Core i5-4670, Intel Core i5-4570, Intel Core i3-4330, Intel Core i3-4130, Intel Pentium® G3220, Intel Xeon® E3-1280 v3, Intel Xeon E3-1270 v3, Intel Xeon E3-1245 v3, Intel Xeon E3-1240 v3, Intel Xeon E3-1230 v3, Intel Xeon E3-1225 v3
Memory	4 DIMM slots, up to 32 GB ECC/non-ECC, DDR3 1600 MHz
Chipset	Intel® C226 chipset
Storage	Up to (3) 3.5-inch 7200 rpm SATA drives: 500 GB, 1, 2 or 3 TB; Up to (3) 2.5-inch 10K rpm SATA drives: 250, 500 GB, 1 TB; Up to (3) 2.5-inch SATA SDD drives: 128, 256 GB; Up to (1) 2.5-inch SATA self-encrypting solid state boot drive: 256 GB, 256 GB max; Up to (1) 2.5-inch SATA self-encrypting 7200 rpm boot drive: 500 GB,500 GB max; Optional (1) 64 GB SSD Disk Cache Module can be used in conjunction with up to (2) SATA HDDs in RAID 0/RAID 1 using Intel® Smart Response Technology.
Expansion Slots	1 PCIe Gen3 x16, 1 PCIe Gen2 x4 slot/x16, 1 PCIe Gen2 x1 slot/x4 connector, 1 PCIe Gen2 x1 slot, 1 PCI 32-bit.
Graphics	Integrated Graphics: Intel® HD Graphics available on select processors as above Professional 2D: NVIDIA NVS 310, NVIDIA NVS 315, NVIDIA NVS 510 Entry 3D: AMD FirePro™ V3900, NVIDIA Quadro 410, NVIDIA Quadro K600
Network	Integrated Intel I217LM PCIe GbE Controller; Optional Intel Ethernet I210-T1
Optical Storage	DVD-ROM, DVD+/-RW DL S M, HP Blu-ray Writer, HP 14-in-1 Media Card Reader
Operation System	Windows 7 Professional 32-bit, Windows® 7 Professional 64-bit, Windows 8.1 Pro 64-bit
USB	Front 2 USB 3.0, 1 USB 2.0, 1 USB 2.0 Charging Data Port.Rear 2 USB 3.0, 4 USB 2.0
Floppy 3.5"	No

Product Details in tested sample	
Product	HP Z230
Processor	Intel Xeon E3-1225v3 3.2 8M GT2 4C
Memory	8GB DDR3-1600 nECC
Hard disc	1x 250GB 10K RPM SATA SFF
Graphics	NVIDIA Quadro K600 1GB
Network	Intel Ethernet I210-T1
Storage CD-ROM	Slim SuperMulti DVDRW SATA
Operation System	Windows 8.1 Pro 64-bit

Engineering	
Configuration and installation	NO media

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HP Z230

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With the HP Z230 SFF and Tower Workstations, you will gain peace of mind from our extreme test and validation processes designed for always-on environments. You can control your environmental impact better than ever1 while lowering your total cost of ownership with a 92% efficient power supply. Work smarter with software tools designed to deliver better, smarter performance—the HP Z230 Tower Workstation has earned a wide range of ISV certifications.

The HP Z230 supports the 800xA Extended Automation System Value Propositions as noted below:

800xA Value Proposition Mapping

✓ **Reducing Time to Decision and Action**
- Detailed performance information can be retrieved.
- Worldwide standard product

✓ **Engineering for Maximum Performance**
- High level configuration
- Number of options available for different configuration needs

✓ **Reducing Risk through High Integrity Automation**
- Reduced risk through reduced number of components
- Mechanical form factor improves lifetime

✓ **Optimizing Plant Asset Availability and Performance**
- Possible to change components without any mechanical tools

✓ **Investment Enhancement through Evolution**
- Continuous developments of components to fit in existing Hewlett Packard product family.

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