



## HP Z820 Xeon E5-2643 4 Core 3.30GHz 10MB cache 1600MHz 2nd CPU processor 3.3 GHz

**Brand :** HP

**Product code:** A6S90AA

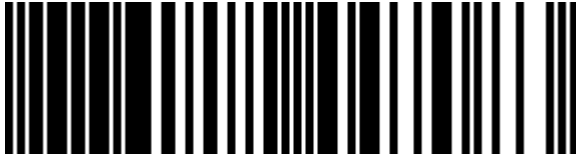
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HP Z820 Xeon E5-2643 4 Core 3.30GHz 10MB cache 1600MHz 2nd CPU  
 HP Z820 Xeon E5-2643 4 Core 3.30GHz 10MB cache 1600MHz 2nd CPU. Processor family: Intel® Xeon® E5 Family, Processor socket: LGA 2011 (Socket R), Processor lithography: 32 nm. Memory channels: Quad-channel, Maximum internal memory supported by processor: 750 GB, Memory types supported by processor: DDR3-SDRAM. Market segment: Server, Scalability: S2S. Intel® Virtualization Technology (Intel® VT): VT-d, VT-x, Compatibility: HP Z820

Processor		Features	
Processor model *	E5-2643	Thermal Monitoring Technologies	✓
Processor base frequency *	3.3 GHz	Market segment	Server
Processor family *	Intel® Xeon® E5 Family	Maximum number of PCI Express lanes	40
Processor cores *	4	PCI Express slots version	3.0
Processor socket *	LGA 2011 (Socket R)	Scalability	S2S
Component for	Server/workstation	CPU configuration (max)	2
Processor lithography *	32 nm	Embedded options available	✗
Processor threads	8	<b>Processor special features</b>	
System bus rate	8 GT/s	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor operating modes *	64-bit	Intel® Turbo Boost Technology	✓
Processor boost frequency	3.5 GHz	Intel Flex Memory Access	✓
Processor cache	10 MB	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor front side bus	1600 MHz	Enhanced Intel SpeedStep Technology	✓
Thermal Design Power (TDP)	130 W	Intel Trusted Execution Technology	✓
VID Voltage Range	0.6 - 1.35 V	Intel VT-x with Extended Page Tables (EPT)	✓
Bus type	QPI	Intel Demand Based Switching	✓
CPU multiplier (bus/core ratio)	35	Intel Virtualization Technology (VT-x)	✓
Number of QPI links	2	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Memory bandwidth supported by processor (max)	51.2 GB/s	Intel® vPro™ Platform Eligibility	✓
<b>Memory</b>		<b>Operational conditions</b>	
Maximum internal memory supported by processor	750 GB	Tcase	73 °C
Memory types supported by processor	DDR3-SDRAM		
Memory clock speeds supported by processor	800,1066,1333,1600 MHz		
Memory channels *	Quad-channel		
ECC	✓		

Graphics		Other features	
On-board graphics card *	✘	Intel® Virtualization Technology (Intel® VT)	VT-d, VT-x
Features		Compatibility	HP Z820
Execute Disable Bit	✔		
Idle States	✔		



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