



## HP Z820 Xeon E5-2620 6C 2.00GHz 15MB processor 2 GHz L3

Brand : HP

Product code: A6S87AT

Product name : Z820 Xeon E5-2620 6C 2.00GHz 15MB

HP Z820 Xeon E5-2620 6 Core 2.00GHz 15MB cache 1333MHz 2nd CPU

HP Z820 Xeon E5-2620 6C 2.00GHz 15MB. 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 *	E5-2620	Idle States	✓
Processor base frequency *	2 GHz	Thermal Monitoring Technologies	✓
Processor family *	Intel® Xeon® E5 Family	Market segment	Server
Processor cores *	6	Maximum number of PCI Express lanes	40
Processor socket *	LGA 2011 (Socket R)	PCI Express slots version	3.0
Component for	Server/workstation	Scalability	S2S
Processor lithography *	32 nm	Embedded options available	✗
Processor threads	12	<b>Processor special features</b>	
System bus rate	7.2 GT/s	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor operating modes *	64-bit	Intel® Turbo Boost Technology	✓
Processor boost frequency	2.5 GHz	Intel Flex Memory Access	✓
Processor cache	15 MB	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor cache type	L3	Enhanced Intel SpeedStep Technology	✓
Processor front side bus	1333 MHz	Intel Trusted Execution Technology	✓
Thermal Design Power (TDP)	95 W	Intel VT-x with Extended Page Tables (EPT)	✓
VID Voltage Range	0.6 - 1.35 V	Intel Demand Based Switching	✓
Bus type	QPI	Intel Virtualization Technology (VT-x)	✓
CPU multiplier (bus/core ratio)	25	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Number of QPI links	2	Intel® vPro™ Platform Eligibility	✓
Memory bandwidth supported by processor (max)	42.6 GB/s	<b>Operational conditions</b>	
<b>Memory</b>		Tcase	77.4 °C
Maximum internal memory supported by processor	750 GB		
Memory types supported by processor	DDR3-SDRAM		
Memory clock speeds supported by processor	800,1066,1333 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	✔		



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