



DELL Intel Xeon E5-2620 v2 processor 2.1 GHz 15 MB Smart Cache

Brand : DELL

Product code: 338-BDKX

Product name : Intel Xeon E5-2620 v2

Intel Xeon E5-2620 v2, 15M Cache, 2.1 GHz, 7.2 GT/s QPI, FCLGA2011

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The Intel® E5-2620 v2 2.10 GHz Six Core Processor enhances the performance and the speed of your system. Additionally, the Virtualization Technology enables migration of more environments. It supports enhanced SpeedStep® technology that allows tradeoffs to be made between performance and power consumption. Its Thermal Monitoring Technologies protect the processor package and the system from thermal failure through several thermal management features. The VT-x with Extended Page Tables (EPT) also known as Second Level Address Translation (SLAT), provides acceleration for memory intensive virtualized applications. Packed with more features, the E5-2620 v2 2.10 GHz Six Core Processor is the ideal choice for virtually all of your data demanding or standard enterprise infrastructure applications.



Processor		Features	
Processor model *	E5-2620V2	Maximum number of PCI Express lanes	40
Processor base frequency *	2.1 GHz	PCI Express slots version	3.0
Processor family *	Intel® Xeon® E5 V2 Family	Supported instruction sets	AVX
Processor cores *	6	Scalability	25
Processor socket *	LGA 2011 (Socket R)	Physical Address Extension (PAE)	✓
Component for	Server/workstation	CPU configuration (max)	2
Processor lithography *	22 nm	Embedded options available	✗
Processor series	Intel Xeon E5-2600 v2	Physical Address Extension (PAE)	46 bit
Processor threads	12	Processor special features	
System bus rate	7.2 GT/s	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor operating modes *	64-bit	Intel® Identity Protection Technology (Intel® IPT)	✗
Processor boost frequency	2.6 GHz	Intel® Turbo Boost Technology	2.0
Processor cache	15 MB	Intel Flex Memory Access	✗
Processor cache type	Smart Cache	Intel® AES New Instructions (Intel® AES-NI)	✓
Thermal Design Power (TDP)	80 W	Enhanced Intel SpeedStep Technology	✓
Cooler included *	✗	Intel Trusted Execution Technology	✓
VID Voltage Range	0.65 - 1.3 V	Intel VT-x with Extended Page Tables (EPT)	✓
Stepping	S1	Intel Demand Based Switching	✓
Bus type	QPI	Intel® Secure Key	✓
Number of QPI links	2	Intel TSX-NI	✗
Memory bandwidth supported by processor (max)	51.2 GB/s	Intel® OS Guard	✓
Processor codename	Ivy Bridge EP	Intel 64	✓
Memory		Intel Virtualization Technology (VT-x)	✓
Maximum internal memory supported by processor	768 GB	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Memory types supported by processor	DDR3-SDRAM	Intel® vPro™ Platform Eligibility	✓
Memory clock speeds supported by processor	800,1066,1333,1600 MHz	Operational conditions	
Memory channels *	Quad-channel	Tcase	71 °C
ECC	✓	Other features	
Graphics		Compatibility	PowerEdge R720 PowerEdge R720XD
On-board graphics card *	✗		
Features			
Execute Disable Bit	✓		
Idle States	✓		
Thermal Monitoring Technologies	✓		
Market segment	Server		

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