DELL Intel Xeon E5-2430 v2 processor 2.5 GHz 15 MB Smart Cache

Brand : DELL

Product code: 338-BEBG

Product name : Intel Xeon E5-2430 v2

Intel Xeon E5-2430 v2, 15M Cache, 2.5 GHz, 7.2 GT/s QPI, FCLGA1356

DELL Intel Xeon E5-2430 v2 processor 2.5 GHz 15 MB Smart Cache:

The Intel® E5-2430 v2 2.50 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 E5-2430 v2 2.50 GHz Six Core Processor is the ideal choice for virtually all of your data demanding or standard enterprise infrastructure applications.

Processor	
Processor model *	E5-2430V2
Processor base frequency *	2.5 GHz
Processor family *	Intel® Xeon® E5 V2 Family
Processor cores *	6
Processor socket *	BGA 1356
Component for	Server/workstation
Processor lithography *	22 nm
Processor series	Intel Xeon E5-2400 v2
Processor threads	12
System bus rate	7.2 GT/s
Processor operating modes *	64-bit
Processor boost frequency	3 GHz
Processor cache	15 MB
Processor cache type	Smart Cache
Thermal Design Power (TDP)	80 W
Cooler included *	✗
VID Voltage Range	0.65 - 1.3 V
Stepping	S1
Bus type	QPI
Number of QPI links	1
Memory bandwidth supported by processor (max)	38.4 GB/s
Processor codename	Ivy Bridge EN

Memory	
Maximum internal memory supported by processor	384 GB
Memory types supported by processor	DDR3-SDRAM
Memory clock speeds supported by processor	800,1066,1333,1600 MHz
Memory channels *	Triple-channel
ECC	✓

Graphics	
On-board graphics card *	✗

Features	
Execute Disable Bit	✓
Idle States	✓
Thermal Monitoring Technologies	✓

Features	
Market segment	Server
Maximum number of PCI Express lanes	24
PCI Express slots version	3.0
Supported instruction sets	AVX
Scalability	2S
Physical Address Extension (PAE)	✓
CPU configuration (max)	2
Embedded options available	✓
Physical Address Extension (PAE)	46 bit

Processor special features	
Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Intel® Identity Protection Technology (Intel® IPT)	✗
Intel® Turbo Boost Technology	2.0
Intel Flex Memory Access	✗
Intel® AES New Instructions (Intel® AES-NI)	✓
Enhanced Intel SpeedStep Technology	✓
Intel Trusted Execution Technology	✓
Intel VT-x with Extended Page Tables (EPT)	✓
Intel Demand Based Switching	✓
Intel® Secure Key	✓
Intel TSX-NI	✗
Intel® OS Guard	✓
Intel 64	✓
Intel Virtualization Technology (VT-x)	✓
Intel Virtualization Technology for Directed I/O (VT-d)	✓

Operational conditions	
Tcase	76 °C

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