



DELL 338-BDHT processor 2.4 GHz 30 MB Smart Cache Box

Brand : DELL

Product code: 338-BDHT

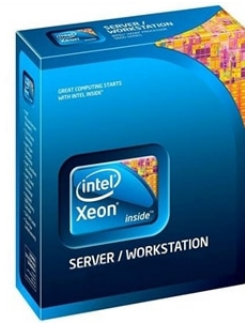
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Intel Xeon E5-2695 v2 2.40GHz, 30M Cache, 8.0GT/s QPI, Turbo, HT, 12C/24T (115W), DDR3 1866MHz

DELL 338-BDHT processor 2.4 GHz 30 MB Smart Cache Box:

The Intel® E5-2695 v2 2.40 GHz Twelve 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 E5-2695 v2 2.40 GHz Twelve Core Processor is the ideal choice for virtually all of your data demanding or standard enterprise infrastructure applications.



Processor		Processor special features	
Processor manufacturer *	Intel	Intel® Identity Protection Technology (Intel® IPT)	✗
Processor model *	E5-2695V2	Intel® Turbo Boost Technology	2.0
Processor base frequency *	2.4 GHz	Intel Flex Memory Access	✗
Processor family *	Intel® Xeon® E5 V2 Family	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor cores *	12	Enhanced Intel SpeedStep Technology	✓
Processor socket *	LGA 2011 (Socket R)	Intel Trusted Execution Technology	✓
Component for	Server/workstation	Intel® Turbo Boost Technology 2.0 frequency	3.2 GHz
Processor lithography *	22 nm	Intel® Transactional Synchronization Extensions	✗
Processor series	Intel Xeon E5-2600 v2	Intel Enhanced Halt State	✓
Processor threads	24	Intel VT-x with Extended Page Tables (EPT)	✓
System bus rate	8 GT/s	Intel Demand Based Switching	✓
Processor operating modes *	64-bit	Intel® Secure Key	✓
Processor boost frequency	3.2 GHz	Intel TSX-NI	✗
Processor cache	30 MB	Intel® OS Guard	✓
Processor cache type	Smart Cache	Intel 64	✓
Thermal Design Power (TDP)	115 W	Intel Secure Key Technology version	1.00
Box *	✓	Intel Virtualization Technology (VT-x)	✓
Cooler included *	✓	Intel Virtualization Technology for Directed I/O (VT-d)	✓
VID Voltage Range	0.65 - 1.3 V	Conflict-Free processor	✗
Bus type	QPI	Intel® vPro™ Platform Eligibility	✓
Number of QPI links	2		
Memory bandwidth supported by processor (max)	59.7 GB/s		
Processor codename	Ivy Bridge EP		
Processor ARK ID	75281		
Memory		Operational conditions	
Maximum internal memory supported by processor	768 GB	Tcase	81 °C
Memory types supported by processor	DDR3-SDRAM		
Memory clock speeds supported by processor	800,1066,1333,1600,1866 MHz	Technical details	
Memory channels *	Quad-channel	Born on date	Q3'13
ECC	✓	Bus bandwidth	8
Graphics		Bus type units	GT/s
On-board graphics card *	✗	Launch date	Q3'13
Discrete graphics card *	✗	Processor cache	30720 KB
On-board graphics card model *	Not available	Processor core voltage	0.65-1.30
		Product name	Intel Xeon E5-2695 v2 (30M Cache, 2.40 GHz)
		Product type	Processor

Graphics		Technical details	
Discrete graphics card model *	Not available	Status	Launched
Features		Maximum memory	768 GB
Execute Disable Bit	✓	Processor brand name	Intel Xeon v2
Idle States	✓	Supported memory types	DDR3-SDRAM
Thermal Monitoring Technologies	✓	Last change	63903513
Market segment	Server	Product family	Intel Xeon Processor E5 v2 Family
Maximum number of PCI Express lanes	40	Bus speed	8 GT/s
PCI Express slots version	3.0	Logistics data	
Supported instruction sets	AVX	Harmonized System (HS) code	8542310001
Scalability	2S	Packaging data	
CPU configuration (max)	2	Package type	Retail box
Embedded options available	✗	Weight & dimensions	
Physical Address Extension (PAE)	46 bit	Processor package size	52.5mm x 51mm
PCI Express CEM revision	3.0	Other features	
Export Control Classification Number (ECCN)	5A992C	Intel® Virtualization Technology (Intel® VT)	VT-d, VT-x
Commodity Classification Automated Tracking System (CCATS)	G077159	Maximum internal memory	768 GB
Processor special features		Maximum internal memory	786432 MB
Intel® Hyper Threading Technology (Intel® HT Technology)	✓	Cache memory	30 MB

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