



DELL 497KK-REF processor 2.4 GHz 30 MB Smart Cache Box

Brand : DELL

Product code: 497KK-REF

Product name : 497KK-REF

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

DELL 497KK-REF 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® Hyper Threading Technology (Intel® HT Technology)	✓
Processor model *	E5-2695V2	Intel® Identity Protection Technology (Intel® IPT)	✗
Processor base frequency *	2.4 GHz	Intel® Turbo Boost Technology	2.0
Processor family *	Intel® Xeon® E5 V2 Family	Intel Flex Memory Access	✗
Processor cores *	12	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor socket *	LGA 2011 (Socket R)	Enhanced Intel SpeedStep Technology	✓
Component for	Server/workstation	Intel Trusted Execution Technology	✓
Processor lithography *	22 nm	Intel® Turbo Boost Technology 2.0 frequency	3.2 GHz
Processor series	Intel Xeon E5-2600 v2	Intel® Transactional Synchronization Extensions	✗
Processor threads	24	Intel Enhanced Halt State	✓
System bus rate	8 GT/s	Intel VT-x with Extended Page Tables (EPT)	✓
Processor operating modes *	64-bit	Intel Demand Based Switching	✓
Processor boost frequency	3.2 GHz	Intel® Secure Key	✓
Processor cache	30 MB	Intel TSX-NI	✗
Processor cache type	Smart Cache	Intel® OS Guard	✓
Thermal Design Power (TDP)	115 W	Intel 64	✓
Package type *	Box	Intel Secure Key Technology version	1.00
Cooler included *	✓	Intel Virtualization Technology (VT-x)	✓
VID Voltage Range	0.65 - 1.3 V	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Bus type	QPI	Conflict-Free processor	✗
Number of QPI links	2	Intel® vPro™ Platform Eligibility	✓
Memory bandwidth supported by processor (max)	59.7 GB/s	Operational conditions	
Processor codename	Ivy Bridge EP	Tcase	81 °C
Processor ARK ID	75281	Technical details	
Memory		Born on date	Q3'13
Maximum internal memory supported by processor	768 GB	Bus bandwidth	8
Memory types supported by processor	DDR3-SDRAM	Bus type units	GT/s
Memory clock speeds supported by processor	800,1066,1333,1600,1866 MHz	Launch date	Q3'13
Memory channels *	Quad-channel	Processor cache	30720 KB
ECC	✓		
Graphics			
On-board graphics card *	✗		
Discrete graphics card *	✗		

Graphics		Technical details	
On-board graphics card model *	Not available	Processor core voltage	0.65–1.30
Discrete graphics card model *	Not available	Product name	Intel Xeon E5-2695 v2 (30M Cache, 2.40 GHz)
Features		Product type	Processor
Execute Disable Bit	✓	Status	Launched
Idle States	✓	Maximum memory	768 GB
Thermal Monitoring Technologies	✓	Processor brand name	Intel Xeon v2
Market segment	Server	Supported memory types	DDR3-SDRAM
Maximum number of PCI Express lanes	40	Last change	63903513
PCI Express slots version	3.0	Product family	Intel Xeon Processor E5 v2 Family
Supported instruction sets	AVX	Bus speed	8 GT/s
Scalability	2S	Logistics data	
CPU configuration (max)	2	Harmonized System (HS) code	8542310001
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	G077159	Maximum internal memory	768 GB
Automated Tracking System (CCATS)		Maximum internal memory	786432 MB
		Cache memory	30 MB

Catalog Object Cloud



Disclaimer. The information published here (the "Information") is based on sources that can be considered reliable, typically the manufacturer, but this Information is provided "AS IS" and without guarantee of correctness or completeness. The Information is only indicative and can be changed at any time without notification. No rights can be based on the Information. Suppliers or aggregators of this Information do not accept any liability with regard to the content of (web)pages and other documents, including its Information. The publisher of the Information can not be held liable for the content of 3rd party websites that are linking this Information or are linked to from this Information. You as the User of the Information are solely responsible for the choice and usage of this Information. You are not entitled to transfer, copy or otherwise multiply or distribute the Information. You are obliged to follow the directions of the copyright owner(s) with regard to the use of the Information. Exclusively Dutch law is applicable. With regard to price and stock data on the site, the publisher followed a number of starting points, which are not necessarily relevant for your private or business circumstances. Therefore, the price and stock data are only indicative and are subject to changes. You are personally responsible for the way you use and apply this information. As a user of the Information or sites or documents in which this Information is included, you will adhere to standard fair use including avoidance of spamming, ripping, intellectual-property violations, privacy violations, and any other illegal activity.