



DELL Intel Xeon E5-2697A V4 processor 2.6 GHz 40 MB Smart Cache

Brand : DELL

Product code: 338-BJFG

Product name : Intel Xeon E5-2697A V4



Intel Xeon E5-2697A V4, 40M Cache, 2.6GHz, 9.6GT/s QPI

[DELL Intel Xeon E5-2697A V4 processor 2.6 GHz 40 MB Smart Cache:](#)

The Intel® E5-2697A v4 2.60 GHz Sixteen 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 E5-2697A v4 2.60 GHz Sixteen Core Processor is the ideal choice for virtually all of your data demanding or standard enterprise infrastructure applications.

Processor		Features	
Processor manufacturer *	Intel	Physical Address Extension (PAE)	46 bit
Processor model *	E5-2697AV4	Processor special features	
Processor base frequency *	2.6 GHz	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor family *	Intel® Xeon® E5 v4	Intel® Identity Protection Technology (Intel® IPT)	✗
Processor cores *	16	Intel® Turbo Boost Technology	2.0
Processor socket *	LGA 2011-v3	Intel Flex Memory Access	✗
Component for	Server/workstation	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor lithography *	14 nm	Enhanced Intel SpeedStep Technology	✓
Processor series	Intel Xeon E5-2600 v4	Intel Trusted Execution Technology	✓
Processor threads	32	Intel VT-x with Extended Page Tables (EPT)	✓
System bus rate	9.6 GT/s	Intel Demand Based Switching	✓
Processor operating modes *	64-bit	Intel® Secure Key	✓
Processor boost frequency	3.6 GHz	Intel TSX-NI	✓
Processor cache	40 MB	Intel® OS Guard	✓
Processor cache type	Smart Cache	Intel 64	✓
Thermal Design Power (TDP)	145 W	Intel Virtualization Technology (VT-x)	✓
VID Voltage Range	0 - 0 V	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Stepping	B0	Conflict-Free processor	✓
Bus type	QPI	Intel® vPro™ Platform Eligibility	✓
Number of QPI links	2	Operational conditions	
Memory bandwidth supported by processor (max)	76.8 GB/s	Tcase	78 °C
Memory		Weight & dimensions	
Maximum internal memory supported by processor	1.53 TB	Processor package size	45 x 52.5 mm
Memory types supported by processor	DDR4-SDRAM		
Memory clock speeds supported by processor	1600,1866,2133,2400 MHz		
Memory channels *	Quad-channel		
ECC	✓		
Graphics			
On-board graphics card *	✗		
Features			
Execute Disable Bit	✓		
Idle States	✓		

Features		Other features	
Thermal Monitoring Technologies	✓		Intel® Server Board S2600CW2R Intel® Server Board S2600CW2SR Intel® Server Board S2600CWTR Intel® Server Board S2600CWTSR Intel® Server Board S2600KPR Intel® Server Board S2600KPFR Intel® Server Board S2600KPTR Intel® Server Board S2600TPR Intel® Server Board S2600TPFR Intel® Server Board S2600WTTR Intel® Server Board S2600WT2R Intel® Server Board S2600WTT51R Intel® Compute Module HNS2600KPFR Intel® Compute Module HNS2600KPR Intel® Compute Module HNS2600TP24R Intel® Compute Module HNS2600TP24SR Intel® Compute Module HNS2600TPFR Intel® Compute Module HNS2600TPR Intel® Server System R1208WT2GSR Intel® Server System R1208WTTGSR Intel® Server System R1304WT2GSR Intel® Server System R1304WTTGSR Intel® Server System R2208WTTYSR Intel® Server System R2208WT2YSR Intel® Server System R2208WTTYC1R Intel® Server System R2308WTTYSR Intel® Server System R2312WTTYSR Intel® Server System R2224WTTYSR
Market segment	Server		
Maximum number of PCI Express lanes	40		
PCI Express slots version	3.0		
Supported instruction sets	AVX 2.0		
Scalability	2S		
Physical Address Extension (PAE)	✓		
CPU configuration (max)	2		
Embedded options available	✗		
		Compatibility	

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