



DELL Intel Xeon E5-2683 V4 processor 2.1 GHz 40 MB Smart Cache

Brand : DELL

Product code: 338-BJFI

Product name : Intel Xeon E5-2683 V4



Intel Xeon E5-2683 V4, 40M Cache, 2.1GHz, 9.6GT/s QPI

DELL Intel Xeon E5-2683 V4 processor 2.1 GHz 40 MB Smart Cache:

The Intel® E5-2683 v4 2.10 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 E5-2683 v4 2.10 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	Supported instruction sets	AVX 2.0
Processor model *	E5-2683V4	Scalability	2S
Processor base frequency *	2.1 GHz	Physical Address Extension (PAE)	✓
Processor family *	Intel® Xeon® E5 v4	CPU configuration (max)	2
Processor cores *	16	Embedded options available	✗
Processor socket *	LGA 2011-v3	Physical Address Extension (PAE)	46 bit
Component for	Server/workstation	Processor special features	
Processor lithography *	14 nm	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor series	Intel Xeon E5-2600 v4	Intel® Identity Protection Technology (Intel® IPT)	✗
Processor threads	32	Intel® Turbo Boost Technology	2.0
System bus rate	9.6 GT/s	Intel Flex Memory Access	✗
Processor operating modes *	64-bit	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor boost frequency	3 GHz	Enhanced Intel SpeedStep Technology	✓
Processor cache	40 MB	Intel Trusted Execution Technology	✓
Processor cache type	Smart Cache	Intel VT-x with Extended Page Tables (EPT)	✓
Thermal Design Power (TDP)	120 W	Intel Demand Based Switching	✓
VID Voltage Range	0 - 0 V	Intel® Secure Key	✓
Stepping	B0	Intel TSX-NI	✓
Bus type	QPI	Intel® OS Guard	✓
Number of QPI links	2	Intel 64	✓
Memory bandwidth supported by processor (max)	76.8 GB/s	Intel Virtualization Technology (VT-x)	✓
Memory		Intel Virtualization Technology for Directed I/O (VT-d)	✓
Maximum internal memory supported by processor	1.53 TB	Conflict-Free processor	✓
Memory types supported by processor	DDR4-SDRAM	Intel® vPro™ Platform Eligibility	✓
Memory clock speeds supported by processor	1600,1866,2133,2400 MHz	Operational conditions	
Memory channels *	Quad-channel	Tcase	84 °C
ECC	✓	Logistics data	
Graphics		Harmonized System (HS) code	85423119
On-board graphics card *	✗		
Discrete graphics card *	✗		
On-board graphics card model *	Not available		
Discrete graphics card model *	Not available		

Features		Other features	
Execute Disable Bit	✓	Compatibility	- PowerEdge C4130 - PowerEdge C6320 - PowerEdge FC430 - PowerEdge FC630 - PowerEdge M630 - PowerEdge R430 - PowerEdge R530 - PowerEdge R630 - PowerEdge R730 - PowerEdge R730XD - PowerEdge T630
Idle States	✓		
Thermal Monitoring Technologies	✓		
Market segment	Server		
Maximum number of PCI Express lanes	40		
PCI Express slots version	3.0		



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