



DELL 0C7CF processor 2.5 GHz 30 MB Smart Cache

Brand : DELL

Product code: 0C7CF

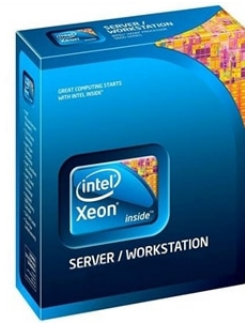
Product name : 0C7CF

Intel Xeon E5-2680 v3 2.5 GHz Twelve Core Processor

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The Intel Xeon® E5-2680 v3 2.5 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 Xeon E5-2680 v3 2.5 GHz Twelve Core Processor is the ideal choice for virtually all of your data demanding or standard enterprise infrastructure applications.



Processor		Features	
Processor manufacturer *	Intel	PCI Express slots version	3.0
Processor model *	E5-2680V3	PCI Express configurations	1x4, 1x8, 1x16
Processor base frequency *	2.5 GHz	Supported instruction sets	AVX 2.0
Processor family *	Intel Xeon E5 v3	Scalability	2S
Processor cores *	12	Physical Address Extension (PAE)	✓
Processor socket *	LGA 2011-v3	CPU configuration (max)	2
Component for	Server/workstation	Embedded options available	✓
Processor lithography *	22 nm	Physical Address Extension (PAE)	46 bit
Processor threads	24	Processor special features	
System bus rate	9.6 GT/s	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor operating modes *	64-bit	Intel® Identity Protection Technology (Intel® IPT)	✗
Processor boost frequency	3.3 GHz	Intel® Turbo Boost Technology	2.0
Processor cache	30 MB	Intel Flex Memory Access	✗
Processor cache type	Smart Cache	Intel® AES New Instructions (Intel® AES-NI)	✓
Thermal Design Power (TDP)	120 W	Enhanced Intel SpeedStep Technology	✓
Memory bandwidth supported by processor (max)	68 GB/s	Intel Trusted Execution Technology	✓
Processor codename	Haswell	Intel VT-x with Extended Page Tables (EPT)	✓
Processor ARK ID	81908	Intel Demand Based Switching	✓
Memory		Intel® Secure Key	✓
Maximum internal memory supported by processor	768 GB	Intel TSX-NI	✗
Memory types supported by processor	DDR4-SDRAM	Intel® OS Guard	✓
Memory clock speeds supported by processor	1600,1866,2133 MHz	Intel 64	✓
Memory channels *	Quad-channel	Intel Virtualization Technology (VT-x)	✓
ECC	✓	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Graphics		Intel® vPro™ Platform Eligibility	✓
On-board graphics card *	✗	Operational conditions	
Discrete graphics card *	✗	Tcase	84 °C
On-board graphics card model *	Not available	Weight & dimensions	
Discrete graphics card model *	Not available	Processor package size	52.5 x 45 mm
Features			
Execute Disable Bit	✓		
Idle States	✓		
Thermal Monitoring Technologies	✓		
Market segment	Server		

Features

Maximum number of PCI Express lanes 40

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