



DELL Intel Xeon E5-2643 v4 processor 3.4 GHz 20 MB Smart Cache

Brand : DELL

Product code: 338-BJFF

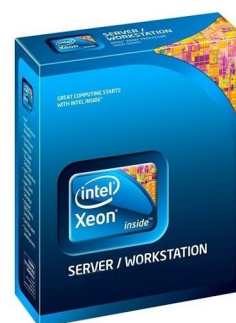
Product name : Intel Xeon E5-2643 v4

Intel Xeon E5-2643 V4, 20M Cache, 3.4GHz, 9.6GT/s QPI

DELL Intel Xeon E5-2643 v4 processor 3.4 GHz 20 MB Smart Cache:

The Intel® E5-2643 v4 3.40 GHz Six 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 E5-2643 v4 3.40 GHz Six Core Processor is the ideal choice for virtually all of your data demanding or standard enterprise infrastructure applications.



Processor		Features	
Processor manufacturer *	Intel	CPU configuration (max)	2
Processor model *	E5-2643V4	Embedded options available	✗
Processor base frequency *	3.4 GHz	Processor special features	
Processor family *	Intel® Xeon® E5 v4	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor cores *	6	Intel® Identity Protection Technology (Intel® IPT)	✗
Processor socket *	LGA 2011-v3	Intel® Turbo Boost Technology	2.0
Component for	Server/workstation	Intel Flex Memory Access	✗
Processor lithography *	14 nm	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor series	Intel Xeon E5-2600 v4	Enhanced Intel SpeedStep Technology	✓
Processor threads	12	Intel Trusted Execution Technology	✓
System bus rate	9.6 GT/s	Intel VT-x with Extended Page Tables (EPT)	✓
Processor operating modes *	64-bit	Intel Demand Based Switching	✓
Processor boost frequency	3.7 GHz	Intel® Secure Key	✓
Processor cache	20 MB	Intel TSX-NI	✓
Processor cache type	Smart Cache	Intel® OS Guard	✓
Thermal Design Power (TDP)	135 W	Intel 64	✓
VID Voltage Range	0 - 0 V	Intel Virtualization Technology (VT-x)	✓
Stepping	R0	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Bus type	QPI	Conflict-Free processor	✓
Number of QPI links	2	Intel® vPro™ Platform Eligibility	✓
Graphics		Operational conditions	
On-board graphics card *	✗	Tcase	75 °C
Discrete graphics card *	✗	Other features	
On-board graphics card model *	Not available	Compatibility	
Discrete graphics card model *	Not available	- PowerEdge FC630 - PowerEdge M630 - PowerEdge R430 - PowerEdge R630 - PowerEdge R730 - PowerEdge R730XD - PowerEdge T630	
Features			
Execute Disable Bit	✓		
Idle States	✓		
Thermal Monitoring Technologies	✓		
Market segment	Server		
Maximum number of PCI Express lanes	40		
PCI Express slots version	3.0		
Supported instruction sets	AVX 2.0		
Scalability	2S		



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