



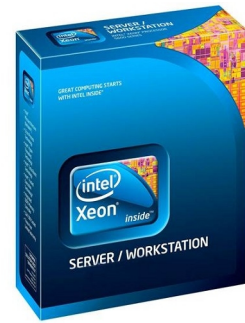
DELL Xeon E5-2690 v3 processor 2.6 GHz 30 MB Smart Cache

Brand : DELL

Product code: 338-BGOC

Product name : Xeon E5-2690 v3

Intel Xeon E5-2690 V3, 2.6 GHz, 30 MB L3, 22 nm, 9.6 GT/s
 DELL Xeon E5-2690 v3. Processor family: Intel Xeon E5 v3, Processor socket: LGA 2011-v3, Processor lithography: 22 nm. Memory channels: Quad-channel, Maximum internal memory supported by processor: 786 GB, Memory types supported by processor: DDR4-SDRAM. Market segment: Server, Supported instruction sets: AVX 2.0, Scalability: 2S. Compatibility: PowerEdge C4130 PowerEdge R430 PowerEdge R630 PowerEdge R730 PowerEdge T630



Processor		Features	
Processor model *	E5-2690V3	Maximum number of PCI Express lanes	40
Processor base frequency *	2.6 GHz	PCI Express slots version	3.0
Processor family *	Intel Xeon E5 v3	Supported instruction sets	AVX 2.0
Processor cores *	12	Scalability	2S
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	3.5 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)	135 W	Enhanced Intel SpeedStep Technology	✓
VID Voltage Range	0.65 - 1.3 V	Intel Trusted Execution Technology	✓
Stepping	R2	Intel VT-x with Extended Page Tables (EPT)	✓
Bus type	QPI	Intel Demand Based Switching	✓
Number of QPI links	2	Intel® Secure Key	✓
Memory bandwidth supported by processor (max)	68 GB/s	Intel TSX-NI	✗
Memory		Intel® OS Guard	✓
Maximum internal memory supported by processor	786 GB	Intel 64	✓
Memory types supported by processor	DDR4-SDRAM	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Memory clock speeds supported by processor	1600,1866,2133 MHz	Intel® vPro™ Platform Eligibility	✓
Memory channels *	Quad-channel	Operational conditions	
ECC	✓	Tcase	89.9 °C
Graphics		Other features	
On-board graphics card *	✗	Compatibility	PowerEdge C4130 PowerEdge R430 PowerEdge R630 PowerEdge R730 PowerEdge T630
Features			
Execute Disable Bit	✓		
Idle States	✓		
Thermal Monitoring Technologies	✓		
Market segment	Server		

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