HP Intel Xeon E5-2699 v3 processor 2.3 GHz 45 MB L3

Brand : HP

Product code: 787873-B21

Product name : Intel Xeon E5-2699 v3

Intel Xeon E5-2699 v3, 2.3 GHz (3.6 GHz Turbo), 45 MB Cache, 9.6 GT/s, 22 nm, 64-bit, Processor Kit

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We are in a multi-year journey to turn HP around, and we have put in place a plan to restore HP to growth. We know where we need to go, and we're making progress.

We continue to drive product innovation in our core markets, with a focus on cloud, security, and big data.

We see big opportunities ahead, and we are well positioned to take advantage of these opportunities with our remarkable set of assets and strengths. We have the people, the plan, and the foundation in place to help us succeed on the next phase of the journey.

Processor	
Processor model *	E5-2699V3
Processor base frequency *	2.3 GHz
Processor family *	Intel Xeon E5 v3
Processor cores *	18
Processor socket *	LGA 2011-v3
Component for	Server/workstation
Processor lithography *	22 nm
Processor threads	36
System bus rate	9.6 GT/s
Processor operating modes *	64-bit
Processor boost frequency	3.6 GHz
Processor cache	45 MB
Processor cache type	L3
Thermal Design Power (TDP)	145 W
VID Voltage Range	0.65 - 1.30 V
Bus type	QPI
Number of QPI links	2
Memory bandwidth supported by processor (max)	68 GB/s
Processor codename	Haswell

Memory	
Maximum internal memory supported by processor	768 GB
Memory types supported by processor	DDR4-SDRAM
Memory clock speeds supported by processor	1600,1866,2133 MHz
Memory channels *	Quad-channel
ECC	✓

Graphics	
On-board graphics card *	✗

Features	
Execute Disable Bit	✓
Idle States	✓
Thermal Monitoring Technologies	✓
Market segment	Server

Features	
Maximum number of PCI Express lanes	40
PCI Express slots version	3.0
Supported instruction sets	AVX 2.0
Scalability	2S
Embedded options available	✗

Processor special features	
Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Intel® Identity Protection Technology (Intel® IPT)	✗
Intel® Turbo Boost Technology	2.0
Intel Flex Memory Access	✗
Intel® Smart Cache	✓
Intel® AES New Instructions (Intel® AES-NI)	✓
Enhanced Intel SpeedStep Technology	✓
Intel Trusted Execution Technology	✓
Intel VT-x with Extended Page Tables (EPT)	✓
Intel Demand Based Switching	✓
Intel® Secure Key	✓
Intel TSX-NI	✗
Intel Virtualization Technology (VT-x)	✓
Intel Virtualization Technology for Directed I/O (VT-d)	✓
Intel® vPro™ Platform Eligibility	✓

Operational conditions	
Tcase	76.4 °C

Other features	
Intel® Virtualization Technology (Intel® VT)	VT-d, VT-x

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