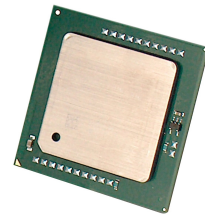




HP Xeon E5-2680 v4 2.4 2400 14C 2nd processor 2.4 GHz 35 MB Smart Cache



Brand : HP

Product family: Xeon

Product code: T9V31AV

Product name : E5-2680 v4
2.4 2400 14C 2nd

Intel Xeon E5-2680 v4 (35M Cache, 2.40 GHz)

HP Xeon E5-2680 v4 2.4 2400 14C 2nd processor 2.4 GHz 35 MB Smart Cache:



Intel® Turbo Boost Technology dynamically increases the processor's frequency as needed by taking advantage of thermal and power headroom to give you a burst of speed when you need it, and increased energy efficiency when you don't.

Intel® vPro™ Technology is a set of security and manageability capabilities built into the processor aimed at addressing four critical areas of IT security: 1) Threat management, including protection from rootkits, viruses, and malware 2) Identity and web site access point protection 3) Confidential personal and business data protection 4) Remote and local monitoring, remediation, and repair of PCs and workstations.

Intel® Hyper-Threading Technology (Intel® HT Technology) delivers two processing threads per physical core. Highly threaded applications can get more work done in parallel, completing tasks sooner.

Processor		Features	
Processor model *	E5-2680V4	Maximum number of PCI Express lanes	40
Processor base frequency *	2.4 GHz	PCI Express slots version	3.0
Processor family *	Intel® Xeon® E5 v4	Supported instruction sets	AVX 2.0
Processor cores *	14	Scalability	2S
Processor socket *	LGA 2011-v3	Physical Address Extension (PAE)	✓
Component for	Server/workstation	CPU configuration (max)	2
Processor lithography *	14 nm	Embedded options available	✓
Processor series	Intel Xeon E5-2600 v4	Physical Address Extension (PAE)	46 bit
Processor threads	28	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	35 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	✓
Box *	✗	Intel Trusted Execution Technology	✓
Stepping	M0	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)	76.8 GB/s	Intel TSX-NI	✓
Memory		Intel® OS Guard	✓
Maximum internal memory supported by processor	1.54 TB	Intel 64	✓
Memory types supported by processor	DDR4-SDRAM	Intel Virtualization Technology (VT-x)	✓
Memory clock speeds supported by processor	1600,1866,2133,2400 MHz	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Memory channels *	Quad-channel	Conflict-Free processor	✓
ECC	✓	Intel® vPro™ Platform Eligibility	✓
Graphics		Operational conditions	
On-board graphics card *	✗	Tcase	86 °C
Features			
Execute Disable Bit	✓		

Features

Idle States	✓
Thermal Monitoring Technologies	✓
Market segment	Server

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