



HP Intel Xeon E5-2650 v4 processor 2.2 GHz 30 MB Smart Cache

Brand : HP

Product code: 864646-001

Product name : Intel Xeon E5-2650 v4

Intel Xeon E5-2650 v4, 30M Cache, 2.2 GHz, 9.6 GT/s QPI

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HP Intel Xeon E5-2650 v4. Processor family: Intel® Xeon® E5 v4, Processor socket: LGA 2011-v3, Processor lithography: 14 nm. Memory channels: Quad-channel, Maximum internal memory supported by processor: 1.53 TB, Memory types supported by processor: DDR4-SDRAM. Market segment: Server, Supported instruction sets: AVX 2.0, Scalability: 2S. Compatibility: Z840

Processor		Features	
Processor model *	E5-2650V4	PCI Express slots version	3.0
Processor base frequency *	2.2 GHz	Supported instruction sets	AVX 2.0
Processor family *	Intel® Xeon® E5 v4	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 *	14 nm	Physical Address Extension (PAE)	46 bit
Processor series	Intel Xeon E5-2600 v4	Processor special features	
Processor threads	24	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
System bus rate	9.6 GT/s	Intel® Identity Protection Technology (Intel® IPT)	✗
Processor operating modes *	64-bit	Intel® Turbo Boost Technology	2.0
Processor boost frequency	2.9 GHz	Intel Flex Memory Access	✗
Processor cache	30 MB	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor cache type	Smart Cache	Enhanced Intel SpeedStep Technology	✓
Thermal Design Power (TDP)	105 W	Intel Trusted Execution Technology	✓
VID Voltage Range	0.65 - 1.3 V	Intel VT-x with Extended Page Tables (EPT)	✓
Stepping	M0	Intel Demand Based Switching	✓
Bus type	QPI	Intel® Secure Key	✓
Number of QPI links	2	Intel TSX-NI	✓
Memory bandwidth supported by processor (max)	76.8 GB/s	Intel® OS Guard	✓
Memory		Intel 64	✓
Maximum internal memory supported by processor	1.53 TB	Intel Virtualization Technology (VT-x)	✓
Memory types supported by processor	DDR4-SDRAM	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Memory clock speeds supported by processor	1600,1866,2133,2400 MHz	Conflict-Free processor	✓
Memory channels *	Quad-channel	Intel® vPro™ Platform Eligibility	✓
ECC	✓	Operational conditions	
Graphics		Tcase	80 °C
On-board graphics card *	✗	Other features	
Features		Compatibility	Z840
Execute Disable Bit	✓		
Idle States	✓		
Thermal Monitoring Technologies	✓		
Market segment	Server		
Maximum number of PCI Express lanes	40		

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