

Intel Xeon E5-2640 v4 processor 2.4 GHz 25 MB Smart Cache Box

Brand : Intel

Product family: Xeon

Product code:
BX80660E52640V4

Product name : E5-2640 v4

Xeon Processor E5-2640 v4 (25M Cache, 2.40 GHz)

Intel Xeon E5-2640 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: 1.54 TB, Memory types supported by processor: DDR4-SDRAM. Market segment: Server, Supported instruction sets: AVX 2.0, Scalability: 2S. Package width: 44 mm, Package depth: 140 mm, Package height: 117 mm. Processor package size: 45 x 52.5 mm



Processor		Features	
Processor manufacturer *	Intel	Scalability	2S
Processor model *	E5-2640V4	Physical Address Extension (PAE)	✓
Processor base frequency *	2.4 GHz	CPU configuration (max)	2
Processor family *	Intel® Xeon® E5 v4	Embedded options available	✓
Processor cores *	10	Physical Address Extension (PAE)	46 bit
Processor socket *	LGA 2011-v3	Processor special features	
Component for	Server/workstation	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor lithography *	14 nm	Intel® Identity Protection Technology (Intel® IPT)	✗
Processor series	Intel Xeon E5-2600 v4	Intel® Turbo Boost Technology	2.0
Processor threads	20	Intel Flex Memory Access	✗
System bus rate	8 GT/s	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor operating modes *	64-bit	Enhanced Intel SpeedStep Technology	✓
Processor boost frequency	3.4 GHz	Intel Trusted Execution Technology	✓
Processor cache	25 MB	Intel VT-x with Extended Page Tables (EPT)	✓
Processor cache type	Smart Cache	Intel Demand Based Switching	✓
Thermal Design Power (TDP)	90 W	Intel® Secure Key	✓
Box *	✓	Intel TSX-NI	✓
Stepping	R0	Intel® OS Guard	✓
Bus type	QPI	Intel 64	✓
Number of QPI links	2	Intel Virtualization Technology (VT-x)	✓
Memory bandwidth supported by processor (max)	68.3 GB/s	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Processor codename	Broadwell	Conflict-Free processor	✓
Processor ARK ID	92984	Intel® vPro™ Platform Eligibility	✓
Memory			
Maximum internal memory supported by processor	1.54 TB		
Memory types supported by processor	DDR4-SDRAM		
Memory clock speeds supported by processor	1600,1866,2133 MHz		

Memory		Operational conditions	
Memory channels *	Quad-channel	Tcase	76 °C
ECC	✓	Packaging data	
Features		Package width	44 mm
Execute Disable Bit	✓	Package depth	140 mm
Idle States	✓	Package height	117 mm
Thermal Monitoring Technologies	✓	Weight & dimensions	
Market segment	Server	Processor package size	45 x 52.5 mm
Maximum number of PCI Express lanes	40		
PCI Express slots version	3.0		
Supported instruction sets	AVX 2.0		



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