

# Intel Xeon E5-2640V4 processor 2.4 GHz 25 MB Smart Cache

**Brand :** Intel

**Product family:** Xeon

**Product code:**  
CM8066002032701

**Product name :** E5-2640V4

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

Intel Xeon E5-2640V4. 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. Intel® Turbo Boost Technology 2.0 frequency: 3.4 GHz. Processor package size: 45mm x 52.5mm

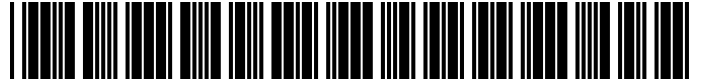


Processor		Processor special features	
Processor manufacturer *	Intel	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor model *	E5-2640V4	Enhanced Intel SpeedStep Technology	✓
Processor base frequency *	2.4 GHz	Intel Trusted Execution Technology	✓
Processor family *	Intel® Xeon® E5 v4	Intel® Turbo Boost Technology 2.0 frequency	3.4 GHz
Processor cores *	10	Intel® Transactional Synchronization Extensions	✓
Processor socket *	LGA 2011-v3	Intel Enhanced Halt State	✓
Component for	Server/workstation	Intel VT-x with Extended Page Tables (EPT)	✓
Processor lithography *	14 nm	Intel Demand Based Switching	✓
Processor series	Intel Xeon E5-2600 v4	Intel® Secure Key	✓
Processor threads	20	Intel TSX-NI	✓
System bus rate	8 GT/s	Intel® OS Guard	✓
Processor operating modes *	64-bit	Intel 64	✓
Processor boost frequency	3.4 GHz	Intel Identity Protection Technology version	0.00
Processor cache	25 MB	Intel Secure Key Technology version	1.00
Processor cache type	Smart Cache	Intel Virtualization Technology (VT-x)	✓
Thermal Design Power (TDP)	90 W	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Box *	✗	Intel TSX-NI version	1.00
Cooler included *	✗	Conflict-Free processor	✓
VID Voltage Range	0 - 0 V	Intel® vPro™ Platform Eligibility	✓
Stepping	R0		
Bus type	QPI		
Number of QPI links	2		
Memory bandwidth supported by processor (max)	68.3 GB/s		
Processor codename	Broadwell		
Processor code	SR2NZ		
Processor ARK ID	92984		
Memory		Operational conditions	
Maximum internal memory supported by processor	1.54 TB	Tcase	76 °C
		Technical details	
		Bus bandwidth	8





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