

Intel Xeon E5-2650V4 processor 2.2 GHz 30 MB Smart Cache Box

Brand : Intel

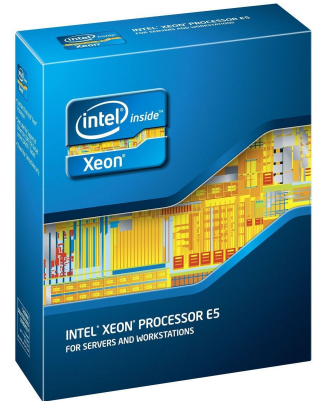
Product family: Xeon

Product code:
BX80660E52650V4

Product name : E5-2650V4

Intel® Xeon® Processor E5-2650 v4
(30M Cache, 2.20 GHz)

Intel Xeon E5-2650V4. 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: 2.9 GHz. Package width: 116 mm, Package depth: 101 mm, Package height: 44 mm



Processor		Processor special features	
Processor manufacturer *	Intel	Enhanced Intel SpeedStep Technology	✓
Processor model *	E5-2650V4	Intel Trusted Execution Technology	✓
Processor base frequency *	2.2 GHz	Intel® Turbo Boost Technology 2.0 frequency	2.9 GHz
Processor family *	Intel® Xeon® E5 v4	Intel® Transactional Synchronization Extensions	✓
Processor cores *	12	Intel Enhanced Halt State	✓
Processor socket *	LGA 2011-v3	Intel VT-x with Extended Page Tables (EPT)	✓
Component for	Server/workstation	Intel Demand Based Switching	✓
Processor lithography *	14 nm	Intel® Secure Key	✓
Processor series	Intel Xeon E5-2600 v4	Intel TSX-NI	✓
Processor threads	24	Intel® OS Guard	✓
System bus rate	9.6 GT/s	Intel 64	✓
Processor operating modes *	64-bit	Intel Identity Protection Technology version	0.00
Processor boost frequency	2.9 GHz	Intel Secure Key Technology version	1.00
Processor cache	30 MB	Intel Virtualization Technology (VT-x)	✓
Processor cache type	Smart Cache	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Thermal Design Power (TDP)	105 W	Intel TSX-NI version	1.00
Box *	✓	Conflict-Free processor	✓
Cooler included *	✓	Intel® vPro™ Platform Eligibility	✓
VID Voltage Range	0 - 0 V	Operational conditions	
Stepping	M0	Tcase	80 °C
Bus type	QPI	Technical details	
Number of QPI links	2	Bus bandwidth	9.6
Memory bandwidth supported by processor (max)	76.8 GB/s	Bus type units	GT/s
Processor codename	Broadwell	Launch date	Q1'16
Processor code	SR2N3	Processor cache	30720 KB
Processor ARK ID	91767	Product type	Processor
Memory		Status	Launched
Maximum internal memory supported by processor	1.54 TB	Processor brand name	Intel Xeon
Memory types supported by processor	DDR4-SDRAM	Supported memory types	DDR4-SDRAM
Memory clock speeds supported by processor	1600,1866,2133,2400 MHz	Last change	63903513
Memory channels *	Quad-channel	Product family	Intel Xeon Processor E5 v4 Family
ECC	✓		

Graphics		Technical details			
On-board graphics card *	✘	Bus speed	9.6 GT/s		
Discrete graphics card *	✘	Servicing status	End of Servicing Updates		
On-board graphics card model *	Not available	End of servicing updates date	Thursday, June 30, 2022		
Discrete graphics card model *	Not available				
Features		Logistics data			
Execute Disable Bit	✓	Harmonized System (HS) code	8542310001		
Idle States	✓	Packaging data			
Thermal Monitoring Technologies	✓	Package width	116 mm		
Market segment	Server	Package depth	101 mm		
Maximum number of PCI Express lanes	40	Package height	44 mm		
PCI Express slots version	3.0	Package weight	99.5 g		
Supported instruction sets	AVX 2.0	Package type	Retail box		
Scalability	2S	Weight & dimensions			
Physical Address Extension (PAE)	✓	Processor package size	45mm x 52.5mm		
CPU configuration (max)	2	Other features			
Embedded options available	✓	Intel Server System R1208WT2GSR Intel Server System R1208WTTGSR Intel Server System R1304WT2GSR Intel Server System R1304WTTGSR Intel Server System R2208WTTYSR Intel Server System R2208WT2YSR Intel Server System R2208WTTYC1R Intel Server System R2308WTTYSR Intel Server System R2312WTTYSR Intel Server System R2224WTTYSR Intel Server Board S2600CW2R Intel Server Board S2600CW2SR Intel Server Board S2600CWTR Intel Server Board S2600CWTSR Intel Server Board S2600KPR Intel Server Board S2600KPFR Intel Server Board S2600KPTR Intel Server Board S2600TPR Intel Server Board S2600TPFR Intel Server Board S2600WTTR Intel Server Board S2600WT2R Intel Server Board S2600WTTS1R Intel Compute Module HNS2600KPFR Intel Compute Module HNS2600KPR Intel Compute Module HNS2600TP24R Intel Compute Module HNS2600TPFR Intel Compute Module HNS2600TPR Intel Compute Module HNS2600TP24SR			
Physical Address Extension (PAE)	46 bit				
PCI Express CEM revision	3.0				
Export Control Classification Number (ECCN)	5A992C				
Commodity Classification Automated Tracking System (CCATS)	G077159				
Processor special features				Compatibility	
Intel® Hyper Threading Technology (Intel® HT Technology)	✓				
Intel® Identity Protection Technology (Intel® IPT)	✘				
Intel® Turbo Boost Technology	2.0				
Intel Flex Memory Access	✘				
Intel® AES New Instructions (Intel® AES-NI)	✓				
		Maximum internal memory	1.5 TB		
		Maximum internal memory	1572864 MB		



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