

Intel Xeon E5-2658V4 processor 2.3 GHz 35 MB Smart Cache

Brand : Intel

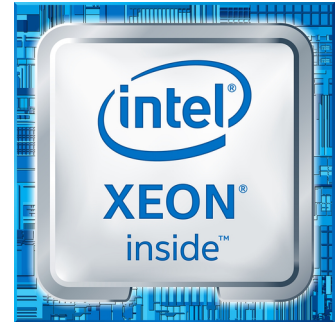
Product family: Xeon

Product code:
CM8066002044801

Product name : E5-2658V4

Intel® Xeon® Processor E5-2658 v4
(35M Cache, 2.30 GHz)

Intel Xeon E5-2658V4. 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: Embedded, Supported instruction sets: AVX 2.0, Scalability: 2S. Intel® Turbo Boost Technology 2.0 frequency: 2.8 GHz. Processor package size: 45mm x 52.5mm



Processor		Processor special features	
Processor manufacturer *	Intel	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor model *	E5-2658V4	Enhanced Intel SpeedStep Technology	✓
Processor base frequency *	2.3 GHz	Intel Trusted Execution Technology	✓
Processor family *	Intel® Xeon® E5 v4	Intel® Turbo Boost Technology 2.0 frequency	2.8 GHz
Processor cores *	14	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	28	Intel TSX-NI	✓
System bus rate	9.6 GT/s	Intel® OS Guard	✓
Processor operating modes *	64-bit	Intel 64	✓
Processor boost frequency	2.8 GHz	Intel Identity Protection Technology version	0.00
Processor cache	35 MB	Intel Secure Key Technology version	1.00
Processor cache type	Smart Cache	Intel Virtualization Technology (VT-x)	✓
Thermal Design Power (TDP)	105 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	M0		
Bus type	QPI		
Number of QPI links	2		
Memory bandwidth supported by processor (max)	76.8 GB/s		
Processor codename	Broadwell		
Processor code	SR2NB		
Processor ARK ID	91771		
Memory		Operational conditions	
Maximum internal memory supported by processor	1.54 TB	Tcase	91 °C
		Technical details	
		Bus bandwidth	9.6

Memory		Technical details		
Memory types supported by processor	DDR4-SDRAM	Bus type units	GT/s	
Memory clock speeds supported by processor	1600,1866,2133,2400 MHz	Launch date	Q1'16	
Memory channels *	Quad-channel	Processor cache	35840 KB	
ECC	✓	Product type	Processor	
Graphics		Status	Launched	
On-board graphics card *	✗	Processor brand name	Intel Xeon	
Features		Supported memory types	DDR4-SDRAM	
Execute Disable Bit	✓	Last change	63903513	
Idle States	✓	Product family	Intel Xeon Processor E5 v4 Family	
Thermal Monitoring Technologies	✓	Bus speed	9.6 GT/s	
Market segment	Embedded	Servicing status	End of Servicing Updates	
Maximum number of PCI Express lanes	40	End of servicing updates date	Thursday, June 30, 2022	
PCI Express slots version	3.0	Logistics data		
Supported instruction sets	AVX 2.0	Harmonized System (HS) code	85423119	
Scalability	2S	Weight & dimensions		
CPU configuration (max)	2	Processor package size	45mm x 52.5mm	
Embedded options available	✓	Other features		
Physical Address Extension (PAE)	46 bit	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 S2600WT2R Intel Compute Module HNS2600KPFR Intel Compute Module HNS2600KPR Intel Compute Module HNS2600TP24R Intel Compute Module HNS2600TPFR Intel Compute Module HNS2600TPR Intel Compute Module HNS2600TP24SR		
PCI Express CEM revision	3.0			
Export Control Classification Number (ECCN)	5A992C			
Commodity Classification Automated Tracking System (CCATS)	G077159			
Processor special features				
Intel® Hyper Threading Technology (Intel® HT Technology)	✓			Compatibility
Intel® Identity Protection Technology (Intel® IPT)	✗			
Intel® Turbo Boost Technology	2.0			
Intel Flex Memory Access	✗			
				Maximum internal memory
		Maximum internal memory	1572864 MB	



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