

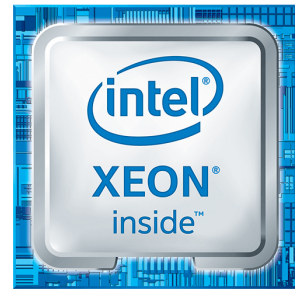
Intel Xeon W-2145 processor 3.7 GHz 11 MB

Brand : Intel

Product family: Xeon

Product code:
CD8067303533601

Product name : W-2145



Intel® Xeon® W-2145 Processor
(11M Cache, 3.70 GHz)

Intel Xeon W-2145. Processor family: Intel® Xeon®, Processor socket: LGA 2066 (Socket R4), Processor lithography: 14 nm. Memory channels: Quad-channel, Maximum internal memory supported by processor: 512 GB, Memory types supported by processor: DDR4-SDRAM. Market segment: Server, PCI Express configurations: 1x16, 1x4, 1x8, Supported instruction sets: SSE4.2, AVX, AVX 2.0, AVX-512. Processor package size: 45mm x 52.5mm. Maximum internal memory: 512 GB, Maximum internal memory: 524288 MB

Processor		Processor special features	
Processor manufacturer *	Intel	Enhanced Intel SpeedStep Technology	✓
Processor model *	W-2145	Intel Trusted Execution Technology	✓
Processor base frequency *	3.7 GHz	Intel® Memory Protection Extensions (Intel® MPX)	✓
Processor family *	Intel® Xeon®	Intel® Device Protection Technology (Intel® DPT) with Boot Guard	✓
Processor cores *	8	Intel® Speed Shift Technology	✓
Processor socket *	LGA 2066 (Socket R4)	Intel® Transactional Synchronization Extensions	✓
Component for	Server/workstation	Intel Enhanced Halt State	✓
Processor lithography *	14 nm	Intel VT-x with Extended Page Tables (EPT)	✓
Processor threads	16	Intel Demand Based Switching	✓
System bus rate	8 GT/s	Intel® Secure Key	✓
Processor operating modes *	64-bit	Intel TSX-NI	✓
Processor boost frequency	4.5 GHz	Intel® OS Guard	✓
Processor cache	11 MB	Intel Software Guard Extensions (Intel SGX)	✗
Thermal Design Power (TDP)	140 W	Intel 64	✓
Box *	✗	Intel Identity Protection Technology version	1.00
Cooler included *	✗	Intel Secure Key Technology version	1.00
Stepping	U0	Intel Virtualization Technology (VT-x)	✓
Bus type	QPI	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Memory bandwidth supported by processor (max)	85.3 GB/s	Intel TSX-NI version	1.00
Processor codename	Skylake	Conflict-Free processor	✓
Processor code	SR3LQ	Intel Turbo Boost Max Technology 3.0	✗
Processor ARK ID	126707	Intel® Optane™ Memory Ready	✗
Memory		AVX-512 Fused Multiply-Add (FMA) units	2
Maximum internal memory supported by processor	512 GB	Intel® Boot Guard	✓
Memory types supported by processor	DDR4-SDRAM	Intel® Volume Management Device (VMD)	✓
Memory clock speeds supported by processor	1600,1866,2133,2400,2666 MHz	Intel® vPro™ Platform Eligibility	✓
Memory channels *	Quad-channel	Operational conditions	
ECC	✓	Tcase	70 °C
Graphics			
On-board graphics card *	✗		
Features			
Execute Disable Bit	✓		
Idle States	✓		
Thermal Monitoring Technologies	✓		
Market segment	Server		

Features		Technical details	
Maximum number of PCI Express lanes	48	Bus type units	GT/s
PCI Express slots version	3.0	Launch date	Q3'17
PCI Express configurations	1x16, 1x4, 1x8	Processor cache	11264 KB
Supported instruction sets	SSE4.2, AVX, AVX 2.0, AVX-512	Product type	Processor
Scalability	1S	Status	Launched
Physical Address Extension (PAE)	✓	Maximum memory	512 GB
CPU configuration (max)	1	Processor brand name	Intel Xeon
Embedded options available	✗	Supported memory types	DDR4-SDRAM
Physical Address Extension (PAE)	46 bit	Last change	63903513
PCI Express CEM revision	3.0	Product family	Intel Xeon Processors
Export Control Classification Number (ECCN)	5A992C	Intel® Speed Shift Technology version	1.00
Commodity Classification		Intel® Volume Management Device (VMD) version	1.00
Automated Tracking System (CCATS)	G077159	Bus speed	8 GT/s
Processor special features		Logistics data	
Intel® Hyper Threading Technology (Intel® HT Technology)	✓	Harmonized System (HS) code	85423119
Intel® Identity Protection Technology (Intel® IPT)	✓	Weight & dimensions	
Intel® Turbo Boost Technology	2.0	Processor package size	45mm x 52.5mm
Intel Flex Memory Access	✗	Other features	
Intel® AES New Instructions (Intel® AES-NI)	✓	Maximum internal memory	512 GB
		Maximum internal memory	524288 MB



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