

Intel Xeon W-2245 processor 3.9 GHz 16.5 MB

Brand : Intel

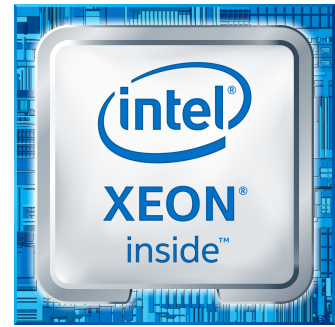
Product family: Xeon

Product code:
CD8069504393801

Product name : W-2245

Intel Xeon W-2245 Processor (16.5MB Cache, up to 4.5 GHz)

Intel Xeon W-2245. Processor family: Intel Xeon W, Processor socket: LGA 2066 (Socket R4), Processor lithography: 14 nm. Memory channels: Quad-channel, Maximum internal memory supported by processor: 1.02 TB, Memory types supported by processor: DDR4-SDRAM. Market segment: Workstation, PCI Express configurations: 1x4, 1x8, 1x16, Supported instruction sets: SSE4.2, AVX, AVX 2.0, AVX-512. Intel® Turbo Boost Max Technology 3.0 frequency: 4.7 GHz. Processor package size: 45mm x 52.5mm



Processor		Processor special features	
Processor manufacturer *	Intel	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor model *	W-2245	Intel® Identity Protection Technology (Intel® IPT)	✓
Processor base frequency *	3.9 GHz	Intel® Turbo Boost Technology	2.0
Processor family *	Intel Xeon W	Intel Flex Memory Access	✗
Processor cores *	8	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor socket *	LGA 2066 (Socket R4)	Enhanced Intel SpeedStep Technology	✓
Component for	Server/workstation	Intel Trusted Execution Technology	✓
Processor lithography *	14 nm	Intel® Memory Protection Extensions (Intel® MPX)	✓
Processor threads	16	Intel® Speed Shift Technology	✓
System bus rate	8 GT/s	Intel® Turbo Boost Max Technology 3.0 frequency	4.7 GHz
Processor operating modes *	64-bit	Intel® Transactional Synchronization Extensions	✓
Processor boost frequency	4.5 GHz	Intel VT-x with Extended Page Tables (EPT)	✓
Processor cache	16.5 MB	Intel Demand Based Switching	✓
Thermal Design Power (TDP)	155 W	Intel® Secure Key	✓
Box *	✗	Intel TSX-NI	✓
Cooler included *	✗	Intel® OS Guard	✓
Memory bandwidth supported by processor (max)	93.85 GB/s	Intel Software Guard Extensions (Intel SGX)	✗
Processor codename	Cascade Lake	Intel 64	✓
Processor ARK ID	198609	Intel Virtualization Technology (VT-x)	✓
Memory		Intel Virtualization Technology for Directed I/O (VT-d)	✓
Maximum internal memory supported by processor	1.02 TB	Intel Turbo Boost Max Technology 3.0	✓
Memory types supported by processor	DDR4-SDRAM	Intel® Optane™ Memory Ready	✗
Memory clock speeds supported by processor	2933 MHz	AVX-512 Fused Multiply-Add (FMA) units	2
Memory channels *	Quad-channel	Intel® Boot Guard	✓
ECC	✓	Intel® Deep Learning Boost (Intel® DL Boost)	✓
Graphics		Intel® Volume Management Device (VMD)	✓
On-board graphics card *	✗	Intel® vPro™ Platform Eligibility	✓
Discrete graphics card *	✗		
On-board graphics card model *	Not available		
Discrete graphics card model *	Not available		
Features			
Execute Disable Bit	✓		
Idle States	✓		
Thermal Monitoring Technologies	✓		
Market segment	Workstation		

Features		Operational conditions	
Maximum number of PCI Express lanes	48	Tcase	59 °C
PCI Express slots version	3.0	Technical details	
PCI Express configurations	1x4, 1x8, 1x16	Launch date	Q4'19
Supported instruction sets	SSE4.2, AVX, AVX 2.0, AVX-512	Product type	Processor
Scalability	1S	Status	Launched
Physical Address Extension (PAE)	✓	Supported memory types	DDR4-SDRAM
CPU configuration (max)	1	Bus speed	8 GT/s
Embedded options available	✗	Logistics data	
Physical Address Extension (PAE)	46 bit	Harmonized System (HS) code	85423119
PCI Express CEM revision	3.0	Weight & dimensions	
Export Control Classification Number (ECCN)	5A992C	Processor package size	45mm x 52.5mm
Commodity Classification Automated Tracking System (CCATS)	G077159	Other features	
		Maximum internal memory	1 TB



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