

Intel Xeon W-3223 processor 3.5 GHz 16.5 MB

Brand : Intel

Product family: Xeon

Product code:
CD8069504248402

Product name : W-3223

Intel Xeon W-3223 Processor (16.5MB Cache, up to 4 GHz)

Intel Xeon W-3223. Processor family: Intel Xeon W, Processor socket: LGA 3647 (Socket P), Processor lithography: 14 nm. Memory channels: Hexa-channel, Maximum internal memory supported by processor: 1.02 TB, Memory types supported by processor: DDR4-SDRAM. Market segment: Server, Supported instruction sets: AVX-512, Scalability: 1S. Intel® Turbo Boost Max Technology 3.0 frequency: 4.2 GHz. Processor package size: 76mm x 56.5mm



Processor		Processor special features	
Processor manufacturer *	Intel	Intel Trusted Execution Technology	✓
Processor model *	W-3223	Intel® Speed Shift Technology	✓
Processor base frequency *	3.5 GHz	Intel® Turbo Boost Max Technology 3.0 frequency	4.2 GHz
Processor family *	Intel Xeon W	Intel® Transactional Synchronization Extensions	✓
Processor cores *	8	Intel VT-x with Extended Page Tables (EPT)	✓
Processor socket *	LGA 3647 (Socket P)	Intel TSX-NI	✓
Component for	Server/workstation	Intel 64	✓
Processor lithography *	14 nm	Intel Virtualization Technology (VT-x)	✓
Processor threads	16	Intel Virtualization Technology for Directed I/O (VT-d)	✓
System bus rate	8 GT/s	Intel Turbo Boost Max Technology 3.0	✓
Processor boost frequency	4 GHz	AVX-512 Fused Multiply-Add (FMA) units	2
Processor cache	16.5 MB	Intel® Boot Guard	✓
Thermal Design Power (TDP)	160 W	Intel® Deep Learning Boost (Intel® DL Boost)	✓
Box *	✗	Intel® Speed Select technology - Performance Profile (Intel® SST-PP)	✗
Cooler included *	✗	Intel® Resource Director Technology (Intel® RDT)	✗
Processor codename	Cascade Lake	Intel® Volume Management Device (VMD)	✓
Processor ARK ID	193739	Intel® Run Sure Technology	✓
Memory		Mode-based Execute Control (MBE)	✓
Maximum internal memory supported by processor	1.02 TB	Intel® Optane™ DC Persistent Memory Supported	✗
Memory types supported by processor	DDR4-SDRAM	Intel® vPro™ Platform Eligibility	✓
Memory clock speeds supported by processor	2666 MHz	Intel Speed Select Technology (SST)	✗
Memory channels *	Hexa-channel	Intel® Speed Select Technology - Base Frequency (Intel® SST-BF)	✗
ECC	✓	Intel® Optane™ DC Persistent Memory technology	✗
Graphics		Operational conditions	
On-board graphics card *	✗	Tcase	68 °C
Discrete graphics card *	✗	Technical details	
On-board graphics card model *	Not available	Launch date	Q2'19
Discrete graphics card model *	Not available	Product type	Processor
Features			
Execute Disable Bit	✓		
Market segment	Server		
Maximum number of PCI Express lanes	64		
PCI Express slots version	3.0		
Supported instruction sets	AVX-512		
Scalability	1S		

Features		Technical details	
Embedded options available	✘	Status	Launched
PCI Express CEM revision	3.0	Supported memory types	DDR4-SDRAM
Export Control Classification Number (ECCN)	5A992C	Memory speed (max)	2666 MHz
Commodity Classification 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® Turbo Boost Technology	2.0	Weight & dimensions	
Intel® AES New Instructions (Intel® AES-NI)	✓	Processor package size	76mm x 56.5mm
Enhanced Intel SpeedStep Technology	✓	Other features	
		Maximum internal memory	1 TB



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