

## Intel Xeon W-2223 processor 3.6 GHz 8.25 MB

**Brand :** Intel

**Product family:** Xeon

**Product code:**  
CD8069504394701

**Product name :** W-2223



Intel® Xeon® W-2223 Processor (8.25M Cache, 3.60 GHz)

Intel Xeon W-2223. 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, Supported instruction sets: SSE4.2, AVX, AVX 2.0, AVX-512, Scalability: 1S. Package width: 44 mm, Package depth: 116 mm, Package height: 101 mm. Processor package size: 45mm x 52.5mm

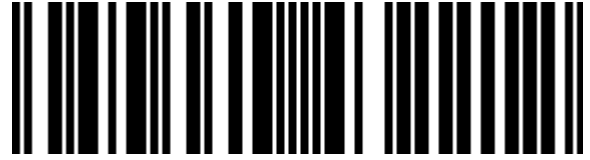


Processor		Processor special features	
Processor manufacturer *	Intel	Intel® Identity Protection Technology (Intel® IPT)	✓
Processor model *	W-2223	Intel® Turbo Boost Technology	2.0
Processor base frequency *	3.6 GHz	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor family *	Intel Xeon W	Enhanced Intel SpeedStep Technology	✓
Processor cores *	4	Intel Trusted Execution Technology	✓
Processor socket *	LGA 2066 (Socket R4)	Intel® Memory Protection Extensions (Intel® MPX)	✓
Component for	Server/workstation	Intel® Speed Shift Technology	✓
Processor lithography *	14 nm	Intel® Transactional Synchronization Extensions	✓
Processor threads	8	Intel VT-x with Extended Page Tables (EPT)	✓
System bus rate	8 GT/s	Intel Demand Based Switching	✓
Processor operating modes *	64-bit	Intel® Secure Key	✓
Processor boost frequency	3.9 GHz	Intel TSX-NI	✓
Processor cache	8.25 MB	Intel® OS Guard	✓
Thermal Design Power (TDP)	120 W	Intel Software Guard Extensions (Intel SGX)	✗
Box *	✗	Intel 64	✓
Cooler included *	✗	Intel Virtualization Technology (VT-x)	✓
Memory bandwidth supported by processor (max)	85.3 GB/s	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Processor codename	Cascade Lake	Intel Turbo Boost Max Technology 3.0	✗
Processor ARK ID	198018	Intel® Optane™ Memory Ready	✗
		AVX-512 Fused Multiply-Add (FMA) units	2
		Intel® Boot Guard	✓
		Intel® Deep Learning Boost (Intel® DL Boost)	✓
		Intel® Volume Management Device (VMD)	✓
		Intel® vPro™ Platform Eligibility	✓
Memory		Operational conditions	
Maximum internal memory supported by processor	1.02 TB	Tcase	64 °C
Memory types supported by processor	DDR4-SDRAM		
Memory clock speeds supported by processor	2666 MHz	Technical details	
Memory channels *	Quad-channel	Launch date	Q4'19
ECC	✓	Product type	Processor
Graphics			
On-board graphics card *	✗		
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		Technical details	
Maximum number of PCI Express lanes	48	Status	Launched
PCI Express slots version	3.0	Supported memory types	DDR4-SDRAM
Supported instruction sets	SSE4.2, AVX, AVX 2.0, AVX-512	Bus speed	8 GT/s
Scalability	1S	Logistics data	
Physical Address Extension (PAE)	✓	Harmonized System (HS) code	85423119
CPU configuration (max)	1	Packaging data	
Embedded options available	✗	Package width	44 mm
Physical Address Extension (PAE)	46 bit	Package depth	116 mm
PCI Express CEM revision	3.0	Package height	101 mm
Export Control Classification Number (ECCN)	5A992C	Package type	Retail box
Commodity Classification Automated Tracking System (CCATS)	G077159	Weight & dimensions	
Processor special features		Processor package size	45mm x 52.5mm
Intel® Hyper Threading Technology (Intel® HT Technology)	✓	Other features	
		Maximum internal memory	1 TB



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