

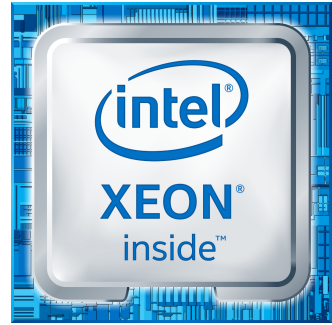
Intel Xeon W-2255 processor 3.7 GHz 19.25 MB

Brand : Intel

Product family: Xeon

Product code:
CD8069504393600

Product name : W-2255



Intel® Xeon® W-2255 Processor (19.25M Cache, 3.70 GHz)

Intel Xeon W-2255. 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. 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-2255	Intel® Identity Protection Technology (Intel® IPT)	✓
Processor base frequency *	3.7 GHz	Intel® Turbo Boost Technology	2.0
Processor family *	Intel Xeon W	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor cores *	10	Enhanced Intel SpeedStep Technology	✓
Processor socket *	LGA 2066 (Socket R4)	Intel Trusted Execution Technology	✓
Component for	Server/workstation	Intel® Memory Protection Extensions (Intel® MPX)	✓
Processor lithography *	14 nm	Intel® Speed Shift Technology	✓
Processor threads	20	Intel® Turbo Boost Max Technology 3.0 frequency	4.7 GHz
System bus rate	8 GT/s	Intel® Transactional Synchronization Extensions	✓
Processor operating modes *	64-bit	Intel VT-x with Extended Page Tables (EPT)	✓
Processor boost frequency	4.5 GHz	Intel Demand Based Switching	✓
Processor cache	19.25 MB	Intel® Secure Key	✓
Thermal Design Power (TDP)	165 W	Intel TSX-NI	✓
Box *	✗	Intel® OS Guard	✓
Cooler included *	✗	Intel Software Guard Extensions (Intel SGX)	✗
Memory bandwidth supported by processor (max)	93.85 GB/s	Intel 64	✓
Processor codename	Cascade Lake	Intel Virtualization Technology (VT-x)	✓
Processor ARK ID	198016	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Memory		Intel Turbo Boost Max Technology 3.0	✓
Maximum internal memory supported by processor	1.02 TB	Intel® Optane™ Memory Ready	✗
Memory types supported by processor	DDR4-SDRAM	AVX-512 Fused Multiply-Add (FMA) units	2
Memory clock speeds supported by processor	2933 MHz	Intel® Boot Guard	✓
Memory channels *	Quad-channel	Intel® Deep Learning Boost (Intel® DL Boost)	✓
ECC	✓	Intel® Volume Management Device (VMD)	✓
Graphics		Intel® vPro™ Platform Eligibility	✓
On-board graphics card *	✗	Operational conditions	
Discrete graphics card *	✗	Tcase	62 °C
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	Launch date	Q4'19
PCI Express slots version	3.0	Product type	Processor
Supported instruction sets	SSE4.2, AVX, AVX 2.0, AVX-512	Status	Launched
Scalability	1S	Supported memory types	DDR4-SDRAM
Physical Address Extension (PAE)	✓	Bus speed	8 GT/s
CPU configuration (max)	1	Logistics data	
Embedded options available	✗	Harmonized System (HS) code	85423119
Physical Address Extension (PAE)	46 bit	Weight & dimensions	
PCI Express CEM revision	3.0	Processor package size	45mm x 52.5mm
Export Control Classification Number (ECCN)	5A992C	Other features	
Commodity Classification Automated Tracking System (CCATS)	G077159	Maximum internal memory	1 TB



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