

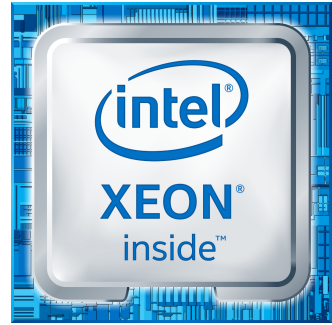
Intel Xeon W-3175X processor 3.1 GHz 38.5 MB Smart Cache Box

Brand : Intel

Product family: Xeon

Product code:
BX80673W3175X

Product name : W-3175X



Intel® Xeon® W-3175X Processor
(38.5M Cache, 3.10 GHz)

Intel Xeon W-3175X. Processor family: Intel® Xeon®, Processor socket: FCLGA3647, Processor lithography: 14 nm. Memory channels: Hexa-channel, Maximum internal memory supported by processor: 512 GB, Memory types supported by processor: DDR4-SDRAM. Market segment: Desktop, Supported instruction sets: SSE4.2, AVX, AVX 2.0, AVX-512, Scalability: 1S. Package width: 104 mm, Package depth: 130 mm, Package height: 45 mm. Processor package size: 76mm x 56.5mm

Processor		Processor special features	
Processor manufacturer *	Intel	Intel® Speed Shift Technology	✓
Processor model *	W-3175X	Intel® Transactional Synchronization Extensions	✓
Processor base frequency *	3.1 GHz	Intel VT-x with Extended Page Tables (EPT)	✓
Processor family *	Intel® Xeon®	Intel TSX-NI	✓
Processor cores *	28	Intel 64	✓
Processor socket *	FCLGA3647	Intel Virtualization Technology (VT-x)	✓
Component for	PC	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Processor lithography *	14 nm	Intel TSX-NI version	1.00
Processor threads	56	Intel Turbo Boost Max Technology 3.0	✗
System bus rate	8 GT/s	Intel® Optane™ Memory Ready	✗
Processor operating modes *	64-bit	AVX-512 Fused Multiply-Add (FMA) units	2
Processor boost frequency	3.8 GHz	Intel® Boot Guard	✓
Processor cache	38.5 MB	Intel® Volume Management Device (VMD)	✓
Processor cache type	Smart Cache	Intel® vPro™ Platform Eligibility	✓
Thermal Design Power (TDP)	255 W		
Box *	✓		
Cooler included *	✓		
Bus type	DMI3		
Processor codename	Skylake		
Processor ARK ID	189452		
Memory		Operational conditions	
Maximum internal memory supported by processor	512 GB	Tcase	70 °C
Memory types supported by processor	DDR4-SDRAM	Tjunction	85 °C
Memory clock speeds supported by processor	2666 MHz	Technical details	
Memory channels *	Hexa-channel	Bus bandwidth	8
ECC	✓	Bus type units	GT/s
Graphics		Launch date	Q4'18
On-board graphics card *	✗	Processor cache	39424 KB
Features		Product type	Processor
Execute Disable Bit	✓	Status	Launched
Market segment	Desktop	Maximum memory	512 GB
Maximum number of PCI Express lanes	48	Processor brand name	Intel Xeon
PCI Express slots version	3.0	Supported memory types	DDR4-SDRAM
Supported instruction sets	SSE4.2, AVX, AVX 2.0, AVX-512	Last change	63903513
Scalability	1S	Product family	Intel Xeon Processors
		Intel® Speed Shift Technology version	1.00
		Intel® Volume Management Device (VMD) version	1.00
		Memory speed (max)	2666 MHz

Features		Technical details	
CPU configuration (max)	1	Bus speed	8 GT/s
Embedded options available	✘	Servicing status	Baseline Servicing
PCI Express CEM revision	3.0	End of servicing updates date	Sunday, December 31, 2023
Export Control Classification Number (ECCN)	5A992C	Logistics data	
Commodity Classification Automated Tracking System (CCATS)	G077159	Harmonized System (HS) code	85423119
Processor special features		Packaging data	
Intel® Hyper Threading Technology (Intel® HT Technology)	✓	Package width	104 mm
Intel® Turbo Boost Technology	2.0	Package depth	130 mm
Intel® AES New Instructions (Intel® AES-NI)	✓	Package height	45 mm
Enhanced Intel SpeedStep Technology	✓	Package weight	322 g
Intel Trusted Execution Technology	✓	Package type	Retail box
		Weight & dimensions	
		Processor package size	76mm x 56.5mm
		Other features	
		Maximum internal memory	512 GB
		Maximum internal memory	524288 MB



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