

Intel Xeon Gold 5315Y processor 3.2 GHz 12 MB

Brand : Intel

Product family: Xeon

Product code:
CD8068904665802

Product name : Gold 5315Y

Intel Xeon Gold 5315Y Processor 12M Cache 3.20 GHz

Intel Xeon Gold 5315Y. Processor family: Intel® Xeon® Gold, Processor socket: LGA 4189, Processor lithography: 10 nm. Memory channels: Octa-channel, Memory types supported by processor: DDR4-SDRAM. Market segment: Server, Supported instruction sets: SSE4.2, AVX, AVX 2.0, AVX-512, Scalability: 2S. Maximum Enclave Size Support for Intel® SGX: 64 GB. Processor package size: 77.5 x 56.5 mm



Processor		Processor special features	
Processor manufacturer *	Intel	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor generation	3rd Generation Intel® Xeon® Scalable	Intel Trusted Execution Technology	✓
Processor model *	5315Y	Intel® Speed Shift Technology	✓
Processor base frequency *	3.2 GHz	Intel® Transactional Synchronization Extensions	✓
Processor family *	Intel® Xeon® Gold	Intel® Total Memory Encryption	✓
Processor cores *	8	Intel® Crypto Acceleration	✓
Processor socket *	LGA 4189	Intel® Platform Firmware Resilience Support	✓
Component for	Server/workstation	Maximum Enclave Size Support for Intel® SGX	64 GB
Processor lithography *	10 nm	Intel VT-x with Extended Page Tables (EPT)	✓
Processor series	Intel Xeon Gold 5000 Series	Intel Software Guard Extensions (Intel SGX)	✓
Processor threads	16	Intel 64	✓
System bus rate	11.2 GT/s	Intel Virtualization Technology (VT-x)	✓
Processor operating modes *	64-bit	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Processor boost frequency	3.6 GHz	AVX-512 Fused Multiply-Add (FMA) units	2
High priority cores	2	Intel® Deep Learning Boost (Intel® DL Boost)	✓
High priority core frequency	3.3 GHz	Intel® Speed Select technology - Performance Profile (Intel® SST-PP)	✓
Low priority cores	6	Intel® Resource Director Technology (Intel® RDT)	✓
Low priority core frequency	2.6 GHz	Intel® Volume Management Device (VMD)	✓
Processor cache	12 MB	Intel® Run Sure Technology	✓
Thermal Design Power (TDP)	140 W	Mode-based Execute Control (MBE)	✓
Box *	✗	Intel® Optane™ DC Persistent Memory Supported	✓
Cooler included *	✗		
Processor codename	Ice Lake		
Processor ARK ID	215286		
Memory		Operational conditions	
Memory types supported by processor	DDR4-SDRAM	Tcase	81 °C
Memory channels *	Octa-channel		
ECC	✓		
Graphics		Technical details	
On-board graphics card *	✗	Target market	Cloud Computing
Discrete graphics card *	✗	Launch date	Q2'21
On-board graphics card model *	Not available	Status	Launched
Discrete graphics card model *	Not available	Supported memory types	DDR4-SDRAM
Features			
Execute Disable Bit	✓		
Market segment	Server		

Features		Technical details	
Maximum number of PCI Express lanes	64	Memory speed (max)	2933 MHz
PCI Express slots version	4.0	Number of UPI links	3
Supported instruction sets	SSE4.2, AVX, AVX 2.0, AVX-512	Servicing status	Baseline Servicing
Scalability	2S	Logistics data	
Embedded options available	✓	Harmonized System (HS) code	85423119
Export Control Classification Number (ECCN)	5A992CN3	Weight & dimensions	
Commodity Classification		Processor package size	77.5 x 56.5 mm
Automated Tracking System (CCATS)	G178966	Other features	
Processor special features		Maximum internal memory	6 TB
Intel® Hyper Threading Technology (Intel® HT Technology)	✓		
Intel® Turbo Boost Technology	2.0		



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