

Intel Xeon Gold 5318Y processor 2.1 GHz 36 MB

Brand : Intel

Product family: Xeon

Product code:
CD8068904656703

Product name : Gold 5318Y

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Intel Xeon Gold 5318Y. Processor family: Intel® Xeon® Gold, Processor socket: LGA 4189, Processor lithography: 10 nm. Memory channels: Octa-channel, Maximum internal memory supported by processor: 6 TB, 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® Turbo Boost Technology	2.0
Processor generation	3rd Generation Intel® Xeon® Scalable	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor model *	5318Y	Intel Trusted Execution Technology	✓
Processor base frequency *	2.1 GHz	Intel® Speed Shift Technology	✓
Processor family *	Intel® Xeon® Gold	Intel® Transactional Synchronization Extensions	✓
Processor cores *	24	Intel® Total Memory Encryption	✓
Processor socket *	LGA 4189	Intel® Crypto Acceleration	✓
Component for	Server/workstation	Intel® Platform Firmware Resilience Support	✓
Processor lithography *	10 nm	Maximum Enclave Size Support for Intel® SGX	64 GB
Processor series	Intel Xeon Gold 5000 Series	Intel VT-x with Extended Page Tables (EPT)	✓
Processor threads	48	Intel Software Guard Extensions (Intel SGX)	✓
System bus rate	11.2 GT/s	Intel 64	✓
Processor operating modes *	64-bit	Intel Virtualization Technology (VT-x)	✓
Processor boost frequency	3.4 GHz	Intel Virtualization Technology for Directed I/O (VT-d)	✓
High priority cores	8	AVX-512 Fused Multiply-Add (FMA) units	2
High priority core frequency	2.3 GHz	Intel® Deep Learning Boost (Intel® DL Boost)	✓
Low priority cores	16	Intel® Speed Select technology - Performance Profile (Intel® SST-PP)	✓
Low priority core frequency	1.8 GHz	Intel® Resource Director Technology (Intel® RDT)	✓
Processor cache	36 MB	Intel® Volume Management Device (VMD)	✓
Thermal Design Power (TDP)	165 W	Intel® Run Sure Technology	✓
Box *	✗	Mode-based Execute Control (MBE)	✓
Cooler included *	✗	Intel® Optane™ DC Persistent Memory Supported	✓
Processor codename	Ice Lake		
Processor ARK ID	215271		
Memory		Operational conditions	
Maximum internal memory supported by processor	6 TB	Tcase	87 °C
Memory types supported by processor	DDR4-SDRAM		
Memory clock speeds supported by processor	2933 MHz	Technical details	
Memory channels *	Octa-channel	Target market	Cloud Computing
ECC	✓	Launch date	Q2'21
		Status	Launched
Graphics			
On-board graphics card *	✗		
Discrete graphics card *	✗		
On-board graphics card model *	Not available		
Discrete graphics card model *	Not available		

Features		Technical details	
Execute Disable Bit	✓	Supported memory types	DDR4-SDRAM
Market segment	Server	Memory speed (max)	2933 MHz
Maximum number of PCI Express lanes	64	Number of UPI links	3
PCI Express slots version	4.0	Servicing status	Baseline Servicing
Supported instruction sets	SSE4.2, AVX, AVX 2.0, AVX-512	Logistics data	
Scalability	2S	Harmonized System (HS) code	85423119
Embedded options available	✓	Weight & dimensions	
Export Control Classification Number (ECCN)	5A992CN3	Processor package size	77.5 x 56.5 mm
Commodity Classification Automated Tracking System (CCATS)	G178966	Other features	
		Maximum internal memory	6 TB
Processor special features			
Intel® Hyper Threading Technology (Intel® HT Technology)	✓		



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