



Lenovo Xeon Intel Gold 5317 processor 3 GHz 18 MB

Brand : Lenovo

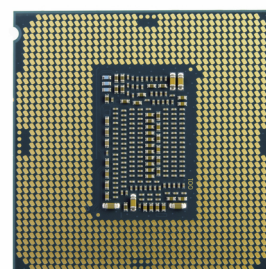
Product family: Xeon

Product code: 4XG7A63456

Product name : Intel Xeon Gold 5317

SR650 V2 Intel Xeon Gold 5317 12C 150W 3.0GHz Option Kit w/o Fan

Lenovo Xeon Intel Gold 5317. 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 Trusted Execution Technology	✓
Processor generation	3rd Generation Intel® Xeon® Scalable	Intel® Speed Shift Technology	✓
Processor model *	5317	Intel® Transactional Synchronization Extensions	✓
Processor base frequency *	3 GHz	Intel® Total Memory Encryption	✓
Processor family *	Intel® Xeon® Gold	Intel® Crypto Acceleration	✓
Processor cores *	12	Intel® Platform Firmware Resilience Support	✓
Processor socket *	LGA 4189	Maximum Enclave Size Support for Intel® SGX	64 GB
Component for	Server/workstation	Intel VT-x with Extended Page Tables (EPT)	✓
Processor lithography *	10 nm	Intel Software Guard Extensions (Intel SGX)	✓
Processor series	Intel Xeon Gold 5000 Series	Intel 64	✓
Processor threads	24	Intel Virtualization Technology (VT-x)	✓
System bus rate	11.2 GT/s	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Processor operating modes *	64-bit	AVX-512 Fused Multiply-Add (FMA) units	2
Processor boost frequency	3.6 GHz	Intel® Deep Learning Boost (Intel® DL Boost) on CPU	✓
Processor cache	18 MB	Intel® Resource Director Technology (Intel® RDT)	✓
Thermal Design Power (TDP)	150 W	Intel® Volume Management Device (VMD)	✓
Processor codename	Ice Lake	Intel® Run Sure Technology	✓
Memory		Mode-based Execute Control (MBE)	✓
Maximum internal memory supported by processor	6 TB	Intel® Optane™ DC Persistent Memory Supported	✓
Memory types supported by processor	DDR4-SDRAM		
Memory channels *	Octa-channel		
ECC	✓		
Graphics			
On-board graphics card *	✗		
Discrete graphics card *	✗		

Graphics		Operational conditions	
On-board graphics card model *	Not available	Tcase	84 °C
Discrete graphics card model *	Not available	Technical details	
Features		Target market	Cloud Computing
Execute Disable Bit	✓	Launch date	Q2'21
Market segment	Server	Status	Launched
Maximum number of PCI Express lanes	64	Supported memory types	DDR4-SDRAM
PCI Express slots version	4.0	Memory speed (max)	2933 MHz
Supported instruction sets	SSE4.2, AVX, AVX 2.0, AVX-512	Number of UPI links	3
Scalability	2S	Logistics data	
Embedded options available	✓	Harmonized System (HS) code	85423119
Export Control Classification Number (ECCN)	5A992CN3	Weight & dimensions	
Commodity Classification Automated Tracking System (CCATS)	G178966	Processor package size	77.5 x 56.5 mm
Processor special features		Other features	
Intel® Hyper Threading Technology (Intel® HT Technology)	✓	Maximum internal memory	6 TB
Intel® Turbo Boost Technology	2.0		
Intel® AES New Instructions (Intel® AES-NI)	✓		



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Catalog Object Cloud



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