



Lenovo Intel Xeon Gold 5320 processor 2.2 GHz 39 MB

Brand : Lenovo

Product code: 4XG7A63403

Product name : Intel Xeon Gold 5320

Intel Xeon Gold 5320 Processor 39M Cache, 2.20 GHz, f/ ThinkSystem SR630 V2

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ThinkSystem servers incorporate Intel Xeon Scalable Family processors to enable critical business workloads and applications. The Intel scalable design provides significant improvement in performance, advanced reliability, scalability and hardware-enhanced security. Enhancements include higher per-core performance, greater memory bandwidth, expanded I/O, and improved security. This page allows you compare the features of the processors.

Lenovo Intel Xeon Gold 5320. 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: AVX, AVX 2.0, AVX-512, SSE4.2, Scalability: 2S. Maximum Enclave Size Support for Intel® SGX: 64 GB

Processor		Processor special features	
Processor manufacturer *	Intel	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor generation	3rd Generation Intel® Xeon® Scalable	Intel® Turbo Boost Technology	2.0
Processor model *	5320	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor base frequency *	2.2 GHz	Intel Trusted Execution Technology	✓
Processor family *	Intel® Xeon® Gold	Intel® Speed Shift Technology	✓
Processor cores *	26	Intel® Transactional Synchronization Extensions	✓
Processor socket *	LGA 4189	Intel® Total Memory Encryption	✓
Processor lithography *	10 nm	Intel® Crypto Acceleration	✓
Processor series	Intel Xeon Gold 5000 Series	Intel® Platform Firmware Resilience Support	✓
Processor threads	52	Maximum Enclave Size Support for Intel® SGX	64 GB
System bus rate	11.2 GT/s	Intel VT-x with Extended Page Tables (EPT)	✓
Processor operating modes *	64-bit	Intel Software Guard Extensions (Intel SGX)	✓
Processor boost frequency	3.4 GHz	Intel 64	✓
High priority cores	12	Intel Virtualization Technology (VT-x)	✓
High priority core frequency	2.5 GHz	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Low priority cores	14	AVX-512 Fused Multiply-Add (FMA) units	2
Low priority core frequency	2 GHz	Intel® Deep Learning Boost (Intel® DL Boost) on CPU	✓
Processor cache	39 MB	Intel® Speed Select technology - Performance Profile (Intel® SST-PP)	✓
Thermal Design Power (TDP)	185 W	Intel® Resource Director Technology (Intel® RDT)	✓
Processor codename	Ice Lake	Intel® Volume Management Device (VMD)	✓
Memory		Intel® Run Sure Technology	✓
Maximum internal memory supported by processor	6 TB	Mode-based Execute Control (MBE)	✓
Memory types supported by processor	DDR4-SDRAM	Intel® Optane™ DC Persistent Memory Supported	✓
Memory clock speeds supported by processor	2933 MHz	Intel® Speed Select Technology - Base Frequency (Intel® SST-BF)	✓
Memory channels *	Octa-channel		
ECC	✓		
Graphics			
On-board graphics card *	✗		
Discrete graphics card *	✗		
On-board graphics card model *	Not available		
Discrete graphics card model *	Not available		
Features			
Execute Disable Bit	✓		

Features		Operational conditions	
Market segment	Server	Tcase	79 °C
Maximum number of PCI Express lanes	64		
PCI Express slots version	4.0		
Supported instruction sets	AVX, AVX 2.0, AVX-512, SSE4.2		
Scalability	2S		
Embedded options available	✗		



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