

Intel Xeon Gold 5320 processor 2.2 GHz 39 MB

Brand : Intel

Product family: Xeon

Product code:
CD8068904659201

Product name : Gold 5320

Intel Xeon Gold 5320 Processor (39MB Cache, up to 3.4 GHz)

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: 6.14 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. Package type: Retail box



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 *	5320	Intel® Speed Shift Technology	✓
Processor base frequency *	2.2 GHz	Intel® Transactional Synchronization Extensions	✓
Processor family *	Intel® Xeon® Gold	Intel® Total Memory Encryption	✓
Processor cores *	26	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 threads	52	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	12	AVX-512 Fused Multiply-Add (FMA) units	2
High priority core frequency	2.5 GHz	Intel® Deep Learning Boost (Intel® DL Boost)	✓
Low priority cores	14	Intel® Resource Director Technology (Intel® RDT)	✓
Low priority core frequency	2 GHz	Intel® Volume Management Device (VMD)	✓
Processor cache	39 MB	Intel® Run Sure Technology	✓
Thermal Design Power (TDP)	185 W	Mode-based Execute Control (MBE)	✓
Box *	✗	Intel® Optane™ DC Persistent Memory Supported	✓
Cooler included *	✗		
Processor codename	Ice Lake		
Processor ARK ID	215285		
Memory		Operational conditions	
Maximum internal memory supported by processor	6.14 TB	Tcase	79 °C
Memory types supported by processor	DDR4-SDRAM	Technical details	
Memory clock speeds supported by processor	2933 MHz	Target market	Cloud Computing
Memory channels *	Octa-channel	Launch date	Q2'21
ECC	✓	Status	Launched
Graphics		Supported memory types	DDR4-SDRAM
On-board graphics card *	✗	Memory speed (max)	2933 MHz
Discrete graphics card *	✗	Number of UPI links	3
On-board graphics card model *	Not available		
Discrete graphics card model *	Not available		

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



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