

## Intel Xeon Gold 5317 processor 3 GHz 18 MB

**Brand :** Intel

**Product family:** Xeon

**Product code:**  
CD8068904657302

**Product name :** Gold 5317

Intel Xeon Gold 5317 Processor 18M Cache 3.00 GHz

Intel Xeon 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® Turbo Boost Technology	2.0
Processor generation	3rd Generation Intel® Xeon® Scalable	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor model *	5317	Intel Trusted Execution Technology	✓
Processor base frequency *	3 GHz	Intel® Speed Shift Technology	✓
Processor family *	Intel® Xeon® Gold	Intel® Transactional Synchronization Extensions	✓
Processor cores *	12	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	24	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	3.6 GHz	Intel Virtualization Technology for Directed I/O (VT-d)	✓
High priority cores	4	AVX-512 Fused Multiply-Add (FMA) units	2
High priority core frequency	3.2 GHz	Intel® Deep Learning Boost (Intel® DL Boost)	✓
Low priority cores	8	Intel® Resource Director Technology (Intel® RDT)	✓
Low priority core frequency	2.8 GHz	Intel® Volume Management Device (VMD)	✓
Processor cache	18 MB	Intel® Run Sure Technology	✓
Thermal Design Power (TDP)	150 W	Mode-based Execute Control (MBE)	✓
Box *	✗	Intel® Optane™ DC Persistent Memory Supported	✓
Cooler included *	✗	<b>Operational conditions</b>	
Processor codename	Ice Lake	Tcase	84 °C
Processor ARK ID	215272	<b>Technical details</b>	
Memory		Target market	Cloud Computing
Maximum internal memory supported by processor	6 TB	Launch date	Q2'21
Memory types supported by processor	DDR4-SDRAM	Status	Launched
Memory channels *	Octa-channel	Supported memory types	DDR4-SDRAM
ECC	✓	Memory speed (max)	2933 MHz
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		Technical details	
Market segment	Server	Number of UPI links	3
Maximum number of PCI Express lanes	64	Servicing status	Baseline Servicing
PCI Express slots version	4.0	Logistics data	
Supported instruction sets	SSE4.2, AVX, AVX 2.0, AVX-512	Harmonized System (HS) code	85423119
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)		✓	



8592978319984



0675901957120



675901957120



5054444460772

Disclaimer. The information published here (the "Information") is based on sources that can be considered reliable, typically the manufacturer, but this Information is provided "AS IS" and without guarantee of correctness or completeness. The Information is only indicative and can be changed at any time without notification. No rights can be based on the Information. Suppliers or aggregators of this Information do not accept any liability with regard to the content of (web)pages and other documents, including its Information. The publisher of the Information can not be held liable for the content of 3rd party websites that are linking this Information or are linked to from this Information. You as the User of the Information are solely responsible for the choice and usage of this Information. You are not entitled to transfer, copy or otherwise multiply or distribute the Information. You are obliged to follow the directions of the copyright owner(s) with regard to the use of the Information. Exclusively Dutch law is applicable. With regard to price and stock data on the site, the publisher followed a number of starting points, which are not necessarily relevant for your private or business circumstances. Therefore, the price and stock data are only indicative and are subject to changes. You are personally responsible for the way you use and apply this information. As a user of the Information or sites or documents in which this Information is included, you will adhere to standard fair use including avoidance of spamming, ripping, intellectual-property violations, privacy violations, and any other illegal activity.