

Intel Xeon 5120T processor 2.2 GHz 19.25 MB L3

Brand : Intel

Product family: Xeon

Product code:
CD8067303535700

Product name : 5120T



Intel® Xeon® Gold 5120T Processor
(19.25M Cache, 2.20 GHz)

Intel Xeon 5120T. Processor family: Intel® Xeon® Gold, Processor socket: LGA 3647 (Socket P), Processor lithography: 14 nm. Memory channels: Hexa-channel, Maximum internal memory supported by processor: 768 GB, Memory types supported by processor: DDR4-SDRAM. Market segment: Server, Supported instruction sets: SSE4.2, AVX, AVX 2.0, AVX-512, Scalability: 4S. Processor package size: 76mm x 56.5mm. Maximum internal memory: 768 GB, Maximum internal memory: 786432 MB

Processor		Processor special features	
Processor manufacturer *	Intel	Intel® Speed Shift Technology	✓
Processor generation	1st Generation Intel® Xeon® Scalable	Intel® Transactional Synchronization Extensions	✓
Processor model *	5120T	Intel VT-x with Extended Page Tables (EPT)	✓
Processor base frequency *	2.2 GHz	Intel TSX-NI	✓
Processor family *	Intel® Xeon® Gold	Intel 64	✓
Processor cores *	14	Intel Virtualization Technology (VT-x)	✓
Processor socket *	LGA 3647 (Socket P)	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Component for	Server/workstation	Intel TSX-NI version	1.00
Processor lithography *	14 nm	Conflict-Free processor	✓
Processor threads	28	Intel Turbo Boost Max Technology 3.0	✗
Processor operating modes *	64-bit	Intel® Optane™ Memory Ready	✗
Processor boost frequency	3.2 GHz	AVX-512 Fused Multiply-Add (FMA) units	1
Processor cache	19.25 MB	Intel® Volume Management Device (VMD)	✓
Processor cache type	L3	Intel® Run Sure Technology	✓
Thermal Design Power (TDP)	105 W	Mode-based Execute Control (MBE)	✓
Box *	✗	Intel® vPro™ Platform Eligibility	✓
Cooler included *	✗		
Stepping	M0		
Processor codename	Skylake		
Processor code	SR3GC		
Processor ARK ID	120477		
Memory		Operational conditions	
Maximum internal memory supported by processor	768 GB	Tcase	89 °C
Memory types supported by processor	DDR4-SDRAM	Technical details	
Memory clock speeds supported by processor	2400 MHz	Launch date	Q3'17
Memory channels *	Hexa-channel	Processor cache	19712 KB
ECC	✓	Product type	Processor
		Status	Launched
		Maximum memory	768 GB
		Processor brand name	Intel Xeon Gold Intel Xeon Gold Processor
		Supported memory types	DDR4-SDRAM
		Last change	63903513
		Product family	Intel Xeon Processors
		Intel® Speed Shift Technology version	1.00
		Intel® Run Sure Technology version	1.00
		Intel® Volume Management Device (VMD) version	1.00
		Memory speed (max)	2400 MHz
		Mode-based Execute Control (MBE) version	1.00
Graphics			
On-board graphics card *	✗		
Features			
Execute Disable Bit	✓		
Market segment	Server		
Maximum number of PCI Express lanes	48		
PCI Express slots version	3.0		
Supported instruction sets	SSE4.2, AVX, AVX 2.0, AVX-512		
Scalability	4S		
Embedded options available	✓		

Features		Technical details	
PCI Express CEM revision	3.0	Number of UPI links	2
Export Control Classification Number (ECCN)	5A992C	Servicing status	ESU Notification Issued
Commodity Classification Automated Tracking System (CCATS)	G077159	End of servicing updates date	Sunday, December 31, 2023
Processor special features		Logistics data	
Intel® Hyper Threading Technology (Intel® HT Technology)	✓	Harmonized System (HS) code	85423119
Intel® Turbo Boost Technology	2.0	Weight & dimensions	
Intel® AES New Instructions (Intel® AES-NI)	✓	Processor package size	76mm x 56.5mm
Enhanced Intel SpeedStep Technology	✓	Other features	
Intel Trusted Execution Technology	✓	Maximum internal memory	768 GB
		Maximum internal memory	786432 MB



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