

Intel Xeon 5120 processor 2.2 GHz 19.25 MB L3

Brand : Intel

Product family: Xeon

Product code:
CD8067303535900

Product name : 5120



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

Intel Xeon 5120. 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. Package width: 43 mm, Package depth: 137 mm, Package height: 112 mm. Processor package size: 76mm x 56.5mm



Processor		Processor special features	
Processor manufacturer *	Intel	Intel® Transactional Synchronization Extensions	✓
Processor model *	5120	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	Operational conditions	
Processor codename	Skylake	Tcase	81 °C
Processor code	SR3GD	Technical details	
Processor ARK ID	120474	Launch date	Q3'17
Memory		Processor cache	19712 KB
Maximum internal memory supported by processor	768 GB	Product type	Processor
Memory types supported by processor	DDR4-SDRAM	Status	Launched
Memory clock speeds supported by processor	2666 MHz	Maximum memory	768 GB
Memory channels *	Hexa-channel	Processor brand name	Intel Xeon Gold Intel Xeon Gold Processor
ECC	✓	Supported memory types	DDR4-SDRAM
Graphics		Last change	63903513
On-board graphics card *	✗	Product family	Intel Xeon Processors
Features		Intel® Speed Shift Technology version	1.00
Execute Disable Bit	✓	Intel® Run Sure Technology version	1.00
Market segment	Server	Intel® Volume Management Device (VMD) version	1.00
Maximum number of PCI Express lanes	48	Memory speed (max)	2400 MHz
PCI Express slots version	3.0		
Supported instruction sets	SSE4.2, AVX, AVX 2.0, AVX-512		
Scalability	4S		

Features		Technical details	
Embedded options available	✘	Mode-based Execute Control (MBE) version	1.00
PCI Express CEM revision	3.0	Number of UPI links	2
Export Control Classification Number (ECCN)	5A992C	Logistics data	
Commodity Classification Automated Tracking System (CCATS)	G077159	Harmonized System (HS) code	85423119
Processor special features		Packaging data	
Intel® Hyper Threading Technology (Intel® HT Technology)	✓	Package width	43 mm
Intel® Turbo Boost Technology	2.0	Package depth	137 mm
Intel® AES New Instructions (Intel® AES-NI)	✓	Package height	112 mm
Enhanced Intel SpeedStep Technology	✓	Package weight	200 g
Intel Trusted Execution Technology	✓	Package type	Retail box
Intel® Speed Shift Technology	✓	Weight & dimensions	
		Processor package size	76mm x 56.5mm
		Other features	
		Maximum internal memory	768 GB
		Maximum internal memory	786432 MB



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