



HP Intel Xeon Gold 5120 processor 2.2 GHz 19.25 MB L3

Brand : HP

Product code: 866538-B21

Product name : Intel Xeon Gold 5120

Intel Xeon Gold 5120, 19.25M Cache, 2.2 GHz, 105 W TDP, FCLGA3647

HP Intel Xeon Gold 5120 processor 2.2 GHz 19.25 MB L3:

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HP Intel Xeon Gold 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: AVX, AVX 2.0, AVX-512, SSE4.2, Scalability: 4S. Compatibility: ML350 GEN10



Processor		Features	
Processor manufacturer *	Intel	Scalability	4S
Processor generation	1st Generation Intel® Xeon® Scalable	Embedded options available	✗
Processor model *	5120	HP segment	Business
Processor base frequency *	2.2 GHz	Processor special features	
Processor family *	Intel® Xeon® Gold	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor cores *	14	Intel® Turbo Boost Technology	2.0
Processor socket *	LGA 3647 (Socket P)	Intel® AES New Instructions (Intel® AES-NI)	✓
Component for	Server/workstation	Enhanced Intel SpeedStep Technology	✓
Processor lithography *	14 nm	Intel Trusted Execution Technology	✓
Processor series	Intel Xeon Gold 5000 Series	Intel® Speed Shift Technology	✓
Processor threads	28	Intel VT-x with Extended Page Tables (EPT)	✓
Processor operating modes *	64-bit	Intel TSX-NI	✓
Processor boost frequency	3.2 GHz	Intel 64	✓
Processor cache	19.25 MB	Intel Virtualization Technology (VT-x)	✓
Processor cache type	L3	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Thermal Design Power (TDP)	105 W	Intel Turbo Boost Max Technology 3.0	✗
Stepping	M0	Intel® Optane™ Memory Ready	✗
Bus type	UPI	AVX-512 Fused Multiply-Add (FMA) units	1
Processor codename	Skylake	Intel® Volume Management Device (VMD)	✓
Memory		Intel® Run Sure Technology	✓
Maximum internal memory supported by processor	768 GB	Mode-based Execute Control (MBE)	✓
Memory types supported by processor	DDR4-SDRAM	Intel® vPro™ Platform Eligibility	✓
Memory clock speeds supported by processor	2400 MHz	Operational conditions	
Memory channels *	Hexa-channel	Tcase	81 °C
ECC	✓	Other features	
Graphics		Compatibility	ML350 GEN10
On-board graphics card *	✗		
Discrete graphics card *	✗		
On-board graphics card model *	Not available		
Discrete graphics card model *	Not available		
Features			
Execute Disable Bit	✓		
Market segment	Server		
Maximum number of PCI Express lanes	48		
PCI Express slots version	3.0		

Features

Supported instruction sets AVX, AVX 2.0, AVX-512, SSE4.2

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