



HP Intel Xeon Silver 4112 processor 2.6 GHz 8.25 MB L3

Brand : HP

Product code: L09256-001

Product name : Intel Xeon Silver 4112

Intel Xeon Silver 4112, 8.25M Cache, 2.6 GHz, 85 W TDP, FCLGA3647

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HP Intel Xeon Silver 4112. Processor family: Intel Xeon Silver, 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: 2S

Processor		Features	
Processor model *	4122	Scalability	2S
Processor base frequency *	2.6 GHz	Embedded options available	✗
Processor family *	Intel Xeon Silver	Processor special features	
Processor cores *	4	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor socket *	LGA 3647 (Socket P)	Intel® Turbo Boost Technology	2.0
Component for	Server/workstation	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor lithography *	14 nm	Enhanced Intel SpeedStep Technology	✓
Processor series	Intel Xeon Silver 4000 Series	Intel Trusted Execution Technology	✓
Processor threads	8	Intel® Speed Shift Technology	✓
Processor operating modes *	64-bit	Intel VT-x with Extended Page Tables (EPT)	✓
Processor boost frequency	3 GHz	Intel TSX-NI	✓
Processor cache	8.25 MB	Intel 64	✓
Processor cache type	L3	Intel Virtualization Technology (VT-x)	✓
Thermal Design Power (TDP)	85 W	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Cooler included *	✗	Intel Turbo Boost Max Technology 3.0	✗
Stepping	U0	Intel® Optane™ Memory Ready	✗
Bus type	UPI	AVX-512 Fused Multiply-Add (FMA) units	1
Processor codename	Skylake	Intel® vPro™ Platform Eligibility	✓
Memory		Operational conditions	
Maximum internal memory supported by processor	768 GB	Tcase	76 °C
Memory types supported by processor	DDR4-SDRAM	Technical details	
Memory clock speeds supported by processor	2400 MHz	Intel® Volume Management Device (VMD) version	✓
Memory channels *	Hexa-channel	Mode-based Execute Control (MBE) version	✓
ECC	✓	Number of UPI links	2
Graphics			
On-board graphics card *	✗		
Discrete 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	AVX, AVX 2.0, AVX-512, SSE4.2		

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