

Intel Xeon 6146 processor 3.2 GHz 24.75 MB L3

Brand : Intel

Product family: Xeon

Product code:
CD8067303657201

Product name : 6146



Intel® Xeon® Gold 6146 Processor
(24.75M Cache, 3.20 GHz)

Intel Xeon 6146. 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: S4S. 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 Trusted Execution Technology	✓
Processor generation	1st Generation Intel® Xeon® Scalable	Intel® Speed Shift Technology	✓
Processor model *	6146	Intel® Transactional Synchronization Extensions	✓
Processor base frequency *	3.2 GHz	Intel VT-x with Extended Page Tables (EPT)	✓
Processor family *	Intel® Xeon® Gold	Intel TSX-NI	✓
Processor cores *	12	Intel 64	✓
Processor socket *	LGA 3647 (Socket P)	Intel Virtualization Technology (VT-x)	✓
Component for	Server/workstation	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Processor lithography *	14 nm	Intel TSX-NI version	1.00
Processor threads	24	Conflict-Free processor	✓
Processor operating modes *	64-bit	Intel Turbo Boost Max Technology 3.0	✗
Processor boost frequency	4.2 GHz	Intel® Optane™ Memory Ready	✗
Processor cache	24.75 MB	AVX-512 Fused Multiply-Add (FMA) units	2
Processor cache type	L3	Intel® Volume Management Device (VMD)	✓
Thermal Design Power (TDP)	165 W	Intel® Run Sure Technology	✓
Box *	✗	Mode-based Execute Control (MBE)	✓
Cooler included *	✗	Intel® vPro™ Platform Eligibility	✓
Stepping	H0		
Processor codename	Skylake	Operational conditions	
Processor code	SR3MA	Tcase	76 °C
Processor ARK ID	124942	Technical details	
Memory		Launch date	Q3'17
Maximum internal memory supported by processor	768 GB	Processor cache	25344 KB
Memory types supported by processor	DDR4-SDRAM	Product type	Processor
Memory clock speeds supported by processor	2666 MHz	Status	Launched
Memory channels *	Hexa-channel	Maximum memory	768 GB
ECC	✓	Processor brand name	Intel Xeon Gold Intel Xeon Gold Processor
Graphics		Supported memory types	DDR4-SDRAM
On-board graphics card *	✗	Last change	63903513
Features		Product family	Intel Xeon Processors
Execute Disable Bit	✓	Intel® Speed Shift Technology version	1.00
Market segment	Server	Intel® Run Sure Technology version	1.00
Maximum number of PCI Express lanes	48		
PCI Express slots version	3.0		
Supported instruction sets	SSE4.2, AVX, AVX 2.0, AVX-512		

Features		Technical details	
Scalability	S4S	Intel® Volume Management Device (VMD) version	1.00
Embedded options available	✘	Memory speed (max)	2666 MHz
PCI Express CEM revision	3.0	Mode-based Execute Control (MBE) version	1.00
Export Control Classification Number (ECCN)	5A992C	Number of UPI links	3
Commodity Classification Automated Tracking System (CCATS)	G077159	Logistics data	
Processor special features		Harmonized System (HS) code	8542310001
Intel® Hyper Threading Technology (Intel® HT Technology)	✓	Weight & dimensions	
Intel® Turbo Boost Technology	2.0	Processor package size	76mm x 56.5mm
Intel® AES New Instructions (Intel® AES-NI)	✓	Other features	
Enhanced Intel SpeedStep Technology	✓	Maximum internal memory	768 GB
		Maximum internal memory	786432 MB



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