

## Intel Xeon 6148 processor 2.4 GHz 27.5 MB L3

Brand : Intel

Product family: Xeon

Product code:  
CD8067303406200

Product name : 6148



Intel® Xeon® Gold 6148 Processor  
(27.5M Cache, 2.40 GHz)

Intel Xeon 6148. 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. 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 generation	1st Generation Intel® Xeon® Scalable	Intel VT-x with Extended Page Tables (EPT)	✓
Processor model *	6148	Intel TSX-NI	✓
Processor base frequency *	2.4 GHz	Intel 64	✓
Processor family *	Intel® Xeon® Gold	Intel Virtualization Technology (VT-x)	✓
Processor cores *	20	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Processor socket *	LGA 3647 (Socket P)	Intel TSX-NI version	1.00
Component for	Server/workstation	Conflict-Free processor	✓
Processor lithography *	14 nm	Intel Turbo Boost Max Technology 3.0	✗
Processor threads	40	Intel® Optane™ Memory Ready	✗
Processor operating modes *	64-bit	AVX-512 Fused Multiply-Add (FMA) units	2
Processor boost frequency	3.7 GHz	Intel® Volume Management Device (VMD)	✓
Processor cache	27.5 MB	Intel® Run Sure Technology	✓
Processor cache type	L3	Mode-based Execute Control (MBE)	✓
Thermal Design Power (TDP)	150 W	Intel® vPro™ Platform Eligibility	✓
Box *	✗	<b>Operational conditions</b>	
Cooler included *	✗	Tcase	86 °C
Stepping	H0	<b>Technical details</b>	
Processor codename	Skylake	Launch date	Q3'17
Processor code	SR3B6	Processor cache	28160 KB
Processor ARK ID	120489	Product type	Processor
<b>Memory</b>		Status	Launched
Maximum internal memory supported by processor	768 GB	Maximum memory	768 GB
Memory types supported by processor	DDR4-SDRAM	Processor brand name	Intel Xeon Gold Intel Xeon Gold Processor
Memory clock speeds supported by processor	2666 MHz	Supported memory types	DDR4-SDRAM
Memory channels *	Hexa-channel	Last change	63903513
ECC	✓	Product family	Intel Xeon Processors
<b>Graphics</b>		Intel® Speed Shift Technology version	1.00
On-board graphics card *	✗	Intel® Run Sure Technology version	1.00
<b>Features</b>		Intel® Volume Management Device (VMD) version	1.00
Execute Disable Bit	✓	Memory speed (max)	2666 MHz
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		

Features		Technical details	
Scalability	S4S	Mode-based Execute Control (MBE) version	1.00
Embedded options available	✘	Number of UPI links	3
PCI Express CEM revision	3.0	<b>Logistics data</b>	
Export Control Classification Number (ECCN)	5A992C	Harmonized System (HS) code	8542310001
Commodity Classification Automated Tracking System (CCATS)	G077159	<b>Packaging data</b>	
<b>Processor special features</b>		Package width	43 mm
Intel® Hyper Threading Technology (Intel® HT Technology)	✓	Package depth	137 mm
Intel® Turbo Boost Technology	2.0	Package height	112 mm
Intel® AES New Instructions (Intel® AES-NI)	✓	Package weight	201 g
Enhanced Intel SpeedStep Technology	✓	Package type	Retail box
Intel Trusted Execution Technology	✓	<b>Weight &amp; dimensions</b>	
Intel® Speed Shift Technology	✓	Processor package size	76mm x 56.5mm
		<b>Other features</b>	
		Maximum internal memory	768 GB
		Maximum internal memory	786432 MB



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