

Intel Xeon 6142 processor 2.6 GHz 22 MB L3

Brand : Intel

Product family: Xeon

Product code:
CD8067303405400

Product name : 6142

Intel® Xeon® Gold 6142 Processor
(22M Cache, 2.60 GHz)

Intel Xeon 6142. 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: Desktop, 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 *	6142	Intel TSX-NI	✓
Processor base frequency *	2.6 GHz	Intel 64	✓
Processor family *	Intel® Xeon® Gold	Intel Virtualization Technology (VT-x)	✓
Processor cores *	16	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Processor socket *	LGA 3647 (Socket P)	Intel TSX-NI version	1.00
Component for	PC	Conflict-Free processor	✓
Processor lithography *	14 nm	Intel Turbo Boost Max Technology 3.0	✗
Processor threads	32	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	22 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 *	✗	Operational conditions	
Cooler included *	✗	Tcase	85 °C
Stepping	H0	Technical details	
Processor codename	Skylake	Launch date	Q3'17
Processor code	SR3AY	Processor cache	22528 KB
Processor ARK ID	120487	Product type	Processor
Memory		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
Graphics		Intel® Speed Shift Technology version	1.00
On-board graphics card *	✗	Intel® Run Sure Technology version	1.00
Features		Intel® Volume Management Device (VMD) version	1.00
Execute Disable Bit	✓	Memory speed (max)	2666 MHz
Market segment	Desktop		
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	Logistics data	
Export Control Classification Number (ECCN)	5A992C	Harmonized System (HS) code	85423119
Commodity Classification Automated Tracking System (CCATS)	G077159	Packaging data	
Processor special features		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	✓	Weight & dimensions	
Intel® Speed Shift Technology	✓	Processor package size	76mm x 56.5mm
		Other features	
		Maximum internal memory	768 GB
		Maximum internal memory	786432 MB



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