

Intel Xeon 6142F processor 2.6 GHz 22 MB L3

Brand : Intel

Product family: Xeon

Product code:
CD8067303593700

Product name : 6142F

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

Intel Xeon 6142F. 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: 2S. Processor package size: 88mm x 56.5mm. Maximum internal memory: 768 GB, Maximum internal memory: 786432 MB



Processor		Processor special features	
Processor manufacturer *	Intel	Intel® Speed Shift Technology	✓
Processor generation	1st Generation Intel® Xeon® Scalable	Intel® Transactional Synchronization Extensions	✓
Processor model *	6142F	Intel VT-x with Extended Page Tables (EPT)	✓
Processor base frequency *	2.6 GHz	Intel TSX-NI	✓
Processor family *	Intel® Xeon® Gold	Intel 64	✓
Processor cores *	16	Intel Virtualization Technology (VT-x)	✓
Processor socket *	LGA 3647 (Socket P)	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Component for	Server/workstation	Intel TSX-NI version	1.00
Processor lithography *	14 nm	Conflict-Free processor	✓
Processor threads	32	Intel Turbo Boost Max Technology 3.0	✗
Processor operating modes *	64-bit	Intel® Optane™ Memory Ready	✗
Processor boost frequency	3.7 GHz	AVX-512 Fused Multiply-Add (FMA) units	2
Processor cache	22 MB	Intel® Volume Management Device (VMD)	✓
Processor cache type	L3	Intel® Run Sure Technology	✓
Thermal Design Power (TDP)	160 W	Mode-based Execute Control (MBE)	✓
Box *	✗	Intel® vPro™ Platform Eligibility	✓
Cooler included *	✗		
Stepping	H0		
Processor codename	Skylake		
Processor code	SR3KH		
Processor ARK ID	123685		
Memory		Operational conditions	
Maximum internal memory supported by processor	768 GB	Tcase	87 °C
Memory types supported by processor	DDR4-SDRAM	Technical details	
Memory clock speeds supported by processor	2666 MHz	Launch date	Q3'17
Memory channels *	Hexa-channel	Processor cache	22528 KB
ECC	✓	Product type	Processor
		Status	Launched
		Maximum memory	768 GB
		Processor brand name	Intel Xeon Gold Intel Xeon Gold Processor
		Supported memory types	DDR4-SDRAM
		Last change	63903513
		Product family	Intel Xeon Processors
		Intel® Speed Shift Technology version	1.00
		Integrated Intel® Omni-Path Architecture (Intel® OPA) version	1.00
		Intel® Run Sure Technology version	1.00
Graphics			
On-board 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	SSE4.2, AVX, AVX 2.0, AVX-512		

Features		Technical details	
Scalability	25	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	2
Commodity Classification Automated Tracking System (CCATS)	G077159	Integrated Intel® Omni-Path Architecture (Intel® OPA)	✓
Processor special features		Logistics data	
Intel® Hyper Threading Technology (Intel® HT Technology)	✓	Harmonized System (HS) code	8542310001
Intel® Turbo Boost Technology	2.0	Weight & dimensions	
Intel® AES New Instructions (Intel® AES-NI)	✓	Processor package size	88mm x 56.5mm
Enhanced Intel SpeedStep Technology	✓	Other features	
Intel Trusted Execution Technology	✓	Maximum internal memory	768 GB
		Maximum internal memory	786432 MB

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