



Lenovo Xeon Intel Gold 6342 processor 2.8 GHz 36 MB

Brand : Lenovo

Product family: Xeon

Product code: 4XG7A63578

Product name : Intel Gold 6342

Intel Xeon Gold 6342 Processor (36M Cache, 2.80 GHz)

Lenovo Xeon Intel Gold 6342. Processor family: Intel® Xeon®, Processor socket: LGA 4189, Processor lithography: 10 nm. Memory channels: Octa-channel, Memory types supported by processor: DDR4-SDRAM. Market segment: Server, Supported instruction sets: SSE4.2, AVX, AVX 2.0, AVX-512, Scalability: 2S. Maximum Enclave Size Support for Intel® SGX: 64 GB. Processor package size: 77.5 x 56.5 mm

Processor		Processor special features	
Processor manufacturer *	Intel	Intel® Speed Shift Technology	✓
Processor generation	3rd Generation Intel® Xeon® Scalable	Intel® Transactional Synchronization Extensions	✓
Processor model *	6342	Intel® Total Memory Encryption	✓
Processor base frequency *	2.8 GHz	Intel® Crypto Acceleration	✓
Processor family *	Intel® Xeon®	Intel® Platform Firmware Resilience Support	✓
Processor cores *	24	Maximum Enclave Size Support for Intel® SGX	64 GB
Processor socket *	LGA 4189	Intel VT-x with Extended Page Tables (EPT)	✓
Component for	Server/workstation	Intel Software Guard Extensions (Intel SGX)	✓
Processor lithography *	10 nm	Intel 64	✓
Processor threads	48	Intel Virtualization Technology (VT-x)	✓
System bus rate	11.2 GT/s	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Processor operating modes *	64-bit	AVX-512 Fused Multiply-Add (FMA) units	2
Processor boost frequency	3.5 GHz	Intel® Deep Learning Boost (Intel® DL Boost) on CPU	✓
Processor cache	36 MB	Intel® Resource Director Technology (Intel® RDT)	✓
Thermal Design Power (TDP)	230 W	Intel® Volume Management Device (VMD)	✓
Processor codename	Ice Lake	Intel® Run Sure Technology	✓
Memory		Mode-based Execute Control (MBE)	✓
Memory types supported by processor	DDR4-SDRAM	Intel® Optane™ DC Persistent Memory Supported	✓
Memory channels *	Octa-channel	Operational conditions	
ECC	✓	Tcase	81 °C
Graphics		Technical details	
On-board graphics card *	✗	Launch date	Q2'21
Discrete graphics card *	✗	Status	Launched
On-board graphics card model *	Not available	Supported memory types	DDR4-SDRAM
Discrete graphics card model *	Not available	Memory speed (max)	3200 MHz
Features		Number of UPI links	3
Execute Disable Bit	✓	Logistics data	
Market segment	Server	Harmonized System (HS) code	8542310001
Maximum number of PCI Express lanes	64	Weight & dimensions	
PCI Express slots version	4.0	Processor package size	77.5 x 56.5 mm
Supported instruction sets	SSE4.2, AVX, AVX 2.0, AVX-512	Other features	
Scalability	2S	Maximum internal memory	6 TB
Export Control Classification Number (ECCN)	5A992CN3		
Commodity Classification Automated Tracking System (CCATS)	G178966		
Processor special features			
Intel® Hyper Threading Technology (Intel® HT Technology)	✓		

Processor special features

Intel® Turbo Boost Technology	2.0
Intel® AES New Instructions (Intel® AES-NI)	✓
Intel Trusted Execution Technology	✓



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