



Lenovo Xeon Intel Gold 6346 processor 3.1 GHz 36 MB

Brand : Lenovo

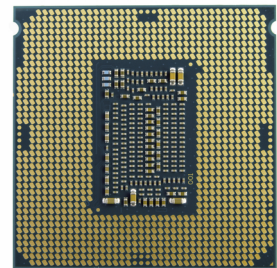
Product family: Xeon

Product code: 4XG7A63452

Product name : Intel Xeon
Gold 6346

Intel Xeon Gold 6346 Processor (36MB Cache, up to 3.6 GHz)

Lenovo Xeon Intel Gold 6346. Processor family: Intel® Xeon®, Processor socket: LGA 4189, Processor lithography: 10 nm. Memory channels: Octa-channel, Maximum internal memory supported by processor: 6 TB, 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® AES New Instructions (Intel® AES-NI)	✓
Processor generation	3rd Generation Intel® Xeon® Scalable	Intel Trusted Execution Technology	✓
Processor model *	6346	Intel® Speed Shift Technology	✓
Processor base frequency *	3.1 GHz	Intel® Transactional Synchronization Extensions	✓
Processor family *	Intel® Xeon®	Intel® Total Memory Encryption	✓
Processor cores *	16	Intel® Crypto Acceleration	✓
Processor socket *	LGA 4189	Intel® Platform Firmware Resilience Support	✓
Component for	Server/workstation	Maximum Enclave Size Support for Intel® SGX	64 GB
Processor lithography *	10 nm	Intel VT-x with Extended Page Tables (EPT)	✓
Processor threads	32	Intel Software Guard Extensions (Intel SGX)	✓
System bus rate	11.2 GT/s	Intel 64	✓
Processor operating modes *	64-bit	Intel Virtualization Technology (VT-x)	✓
Processor boost frequency	3.6 GHz	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Processor cache	36 MB	Intel® Optane™ Memory Ready	✓
Thermal Design Power (TDP)	205 W	AVX-512 Fused Multiply-Add (FMA) units	2
Processor codename	Ice Lake	Intel® Deep Learning Boost (Intel® DL Boost) on CPU	✓
Processor ARK ID	212457	Intel® Resource Director Technology (Intel® RDT)	✓
Memory		Intel® Volume Management Device (VMD)	✓
Maximum internal memory supported by processor	6 TB	Intel® Run Sure Technology	✓
Memory types supported by processor	DDR4-SDRAM		
Memory clock speeds supported by processor	3200 MHz		
Memory channels *	Octa-channel		
ECC	✓		
Graphics			
On-board graphics card *	✗		

Graphics		Processor special features	
Discrete graphics card *	✗	Mode-based Execute Control (MBE)	✓
On-board graphics card model *	Not available	Intel® Optane™ DC Persistent Memory Supported	✓
Discrete graphics card model *	Not available	Operational conditions	
Features		Tcase	78 °C
Execute Disable Bit	✓	Technical details	
Market segment	Server	Launch date	Q2'21
Maximum number of PCI Express lanes	64	Status	Launched
PCI Express slots version	4.0	Supported memory types	DDR4-SDRAM
Supported instruction sets	SSE4.2, AVX, AVX 2.0, AVX-512	Memory speed (max)	3200 MHz
Scalability	2S	Number of UPI links	3
Embedded options available	✗	Logistics data	
Export Control Classification Number (ECCN)	5A992CN3	Harmonized System (HS) code	8542310001
Commodity Classification Automated Tracking System (CCATS)	G178966	Weight & dimensions	
Processor special features		Processor package size	77.5 x 56.5 mm
Intel® Hyper Threading Technology (Intel® HT Technology)	✓	Other features	
Intel® Turbo Boost Technology	2.0	Maximum internal memory	6 TB



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