Lenovo

Lenovo Intel Xeon Gold 6346 processor 3.1 GHz 36 MB

Brand : Lenovo **Product code:** 4XG7A63408

Product name : Intel Xeon Gold 6346

Intel Xeon Gold 6346 Processor 36M Cache, 3.10 GHz, f/ ThinkSystem SR630 V2

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ThinkSystem servers incorporate Intel Xeon Scalable Family processors to enable critical business workloads and applications. The Intel scalable design provides significant improvement in performance, advanced reliability, scalability and hardware-enhanced security. Enhancements include higher per-core performance, greater memory bandwidth, expanded I/O, and improved security. This page allows you compare the features of the processors.
Lenovo Intel Xeon Gold 6346. Processor family: Intel® Xeon® Gold, 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: AVX, AVX 2.0, AVX-512, SSE4.2, Scalability: 2S. Maximum Enclave Size Support for Intel® SGX: 64 GB

Processor	
Processor manufacturer *	Intel
Processor generation	3rd Generation Intel® Xeon® Scalable
Processor model *	6346
Processor base frequency *	3.1 GHz
Processor family *	Intel® Xeon® Gold
Processor cores *	16
Processor socket *	LGA 4189
Processor lithography *	10 nm
Processor series	Intel Xeon Gold 6000 Series
Processor threads	32
System bus rate	11.2 GT/s
Processor operating modes *	64-bit
Processor boost frequency	3.6 GHz
High priority cores	4
High priority core frequency	3.2 GHz
Low priority cores	12
Low priority core frequency	3 GHz
Processor cache	36 MB
Thermal Design Power (TDP)	205 W
Bus type	UPI
Processor codename	Ice Lake

Memory	
Maximum internal memory supported by processor	6 TB
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 *	✘
Discrete graphics card *	✘
On-board graphics card model *	Not available
Discrete graphics card model *	Not available

Processor special features	
Intel® Turbo Boost Technology	2.0
Intel® AES New Instructions (Intel® AES-NI)	✔
Intel Trusted Execution Technology	✔
Intel® Speed Shift Technology	✔
Intel® Transactional Synchronization Extensions	✔
Intel® Total Memory Encryption	✔
Intel® Crypto Acceleration	✔
Intel® Platform Firmware Resilience Support	✔
Maximum Enclave Size Support for Intel® SGX	64 GB
Intel VT-x with Extended Page Tables (EPT)	✔
Intel Software Guard Extensions (Intel SGX)	✔
Intel 64	✔
Intel Virtualization Technology (VT-x)	✔
Intel Virtualization Technology for Directed I/O (VT-d)	✔
AVX-512 Fused Multiply-Add (FMA) units	2
Intel® Deep Learning Boost (Intel® DL Boost) on CPU	✔
Intel® Resource Director Technology (Intel® RDT)	✔
Intel® Volume Management Device (VMD)	✔
Intel® Run Sure Technology	✔
Mode-based Execute Control (MBE)	✔
Intel® Optane™ DC Persistent Memory Supported	✔
Intel® Speed Select Technology - Base Frequency (Intel® SST-BF)	✔
Intel® Speed Select Technology – Core Power	✔
Intel® Speed Select Technology – Turbo Frequency	✔

Features	
Execute Disable Bit	✔
Market segment	Server
Maximum number of PCI Express lanes	64
PCI Express slots version	4.0
Supported instruction sets	AVX, AVX 2.0, AVX-512, SSE4.2
Scalability	2S
Embedded options available	✕

Processor special features	
Intel® Hyper Threading Technology (Intel® HT Technology)	✔

Operational conditions	
Tcase	78 °C

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