



Lenovo Intel Xeon Gold 6348 processor 2.6 GHz 42 MB

Brand : Lenovo

Product code: 4XG7A63575

Product name : Intel Xeon Gold 6348

ThinkSystem SR650 V2 Intel Xeon Gold 6348 28C 235W 2.6GHz Processor Option Kit w/o Fan

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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 6348. 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. Maximum internal memory: 6 TB



Processor		Processor special features	
Processor manufacturer *	Intel	Intel® Turbo Boost Technology	2.0
Processor generation	3rd Generation Intel® Xeon® Scalable	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor model *	6348	Intel Trusted Execution Technology	✓
Processor base frequency *	2.6 GHz	Intel® Speed Shift Technology	✓
Processor family *	Intel® Xeon®	Intel® Transactional Synchronization Extensions	✓
Processor cores *	28	Intel® Total Memory Encryption	✓
Processor socket *	LGA 4189	Intel® Crypto Acceleration	✓
Component for	Server/workstation	Intel® Platform Firmware Resilience Support	✓
Processor lithography *	10 nm	Maximum Enclave Size Support for Intel® SGX	64 GB
Processor series	Intel Xeon Gold 6000 Series	Intel VT-x with Extended Page Tables (EPT)	✓
Processor threads	56	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	3.5 GHz	Intel Virtualization Technology for Directed I/O (VT-d)	✓
High priority cores	12	Intel® Optane™ Memory Ready	✓
High priority core frequency	2.8 GHz	AVX-512 Fused Multiply-Add (FMA) units	2
Low priority cores	16	Intel® Deep Learning Boost (Intel® DL Boost) on CPU	✓
Low priority core frequency	2.5 GHz	Intel® Resource Director Technology (Intel® RDT)	✓
Processor cache	42 MB	Intel® Volume Management Device (VMD)	✓
Thermal Design Power (TDP)	235 W	Intel® Run Sure Technology	✓
Cooler included *	✗	Mode-based Execute Control (MBE)	✓
Processor codename	Ice Lake	Intel® Optane™ DC Persistent Memory Supported	✓
Processor ARK ID	212456		
Memory		Operational conditions	
Maximum internal memory supported by processor	6 TB	Tcase	80 °C
Memory types supported by processor	DDR4-SDRAM	Technical details	
Memory clock speeds supported by processor	3200 MHz	Target market	Cloud Computing
Memory channels *	Octa-channel		
ECC	✓		
Graphics			
On-board graphics card *	✗		
Discrete graphics card *	✗		
On-board graphics card model *	Not available		

Graphics		Technical details	
Discrete graphics card model *	Not available	Launch date	Q2'21
Features		Status	Launched
Execute Disable Bit	✓	Supported memory types	DDR4-SDRAM
Market segment	Server	Memory speed (max)	3200 MHz
Maximum number of PCI Express lanes	64	Number of UPI links	3
PCI Express slots version	4.0	Servicing status	Baseline Servicing
Supported instruction sets	SSE4.2, AVX, AVX 2.0, AVX-512	Logistics data	
Scalability	2S	Harmonized System (HS) code	85423119
Embedded options available	✗	Other features	
Export Control Classification Number (ECCN)	5A992CN3	Maximum internal memory	6 TB
Commodity Classification Automated Tracking System (CCATS)	G178966		
Processor special features			
Intel® Hyper Threading Technology (Intel® HT Technology)	✓		



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