



Lenovo Intel Xeon Silver 4510 processor 2.4 GHz 30 MB

Brand : Lenovo

Product code: 4XG7A91483

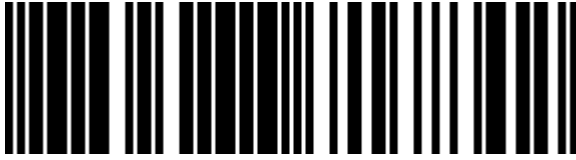
Product name : Intel Xeon Silver 4510

ThinkSystem SR630 V3 Intel Xeon Silver 4510 12C 150W 2.4GHz Processor Option Kit w/o Fan
Lenovo Intel Xeon Silver 4510. Processor family: Intel Xeon Silver, Processor socket: LGA 4677 (Socket E), Processor manufacturer: Intel. Memory channels: Octa-channel, Maximum internal memory supported by processor: 4 TB, Memory types supported by processor: DDR5-SDRAM. Use conditions: Server/Enterprise, Supported instruction sets: AMX, AVX, AVX 2.0, AVX-512, SSE4.2, 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® Total Memory Encryption	✓
Processor generation	Intel Xeon Scalable 5th Gen	Intel® Control-flow Enforcement Technology (CET)	✓
Processor model *	4510	Intel® Crypto Acceleration	✓
Processor base frequency *	2.4 GHz	Intel® Platform Firmware Resilience Support	✓
Processor family *	Intel Xeon Silver	Maximum Enclave Size Support for Intel® SGX	64 GB
Processor cores *	12	Intel VT-x with Extended Page Tables (EPT)	✓
Processor socket *	LGA 4677 (Socket E)	Intel® OS Guard	✓
Processor threads	24	Intel Software Guard Extensions (Intel SGX)	✓
Intel® UPI Speed	16 GT/s	Intel 64	✓
Processor operating modes *	64-bit	Intel Virtualization Technology (VT-x)	✓
Processor boost frequency	4.1 GHz	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Processor cache	30 MB	AVX-512 Fused Multiply-Add (FMA) units	2
Thermal Design Power (TDP)	150 W	Intel® Boot Guard	✓
Cooler included *	✗	Intel® Deep Learning Boost (Intel® DL Boost) on CPU	✓
Processor codename	Sapphire Rapids	Intel® Resource Director Technology (Intel® RDT)	✓
Memory		Intel® Volume Management Device (VMD)	✓
Maximum internal memory supported by processor	4 TB	Mode-based Execute Control (MBE)	✓
Memory types supported by processor	DDR5-SDRAM	Intel® Total Memory Encryption - Multi Key	✓
Memory clock speeds supported by processor	4400 MHz	Intel® QuickAssist Software Acceleration	✓
Memory channels *	Octa-channel	Intel® On Demand Feature Activation	✓
ECC	✓	Intel® Data Streaming Accelerator (DSA)	1
Graphics		Intel® In-memory Analytics Accelerator (IAA)	1
On-board graphics card *	✗	Intel® Advanced Matrix Extensions (AMX)	✓
Discrete graphics card *	✗	Operational conditions	
On-board graphics card model *	Not available	Tcase	84 °C
Discrete graphics card model *	Not available	DTS Max	102 °C
Features			
Execute Disable Bit	✓		
Use conditions	Server/Enterprise		
Maximum number of PCI Express lanes	80		
PCI Express slots version	5.0		
Supported instruction sets	AMX, AVX, AVX 2.0, AVX-512, SSE4.2		
Scalability	2S		
Embedded options available	✓		

Processor special features			Technical details	
Intel® Hyper Threading Technology (Intel® HT Technology)	✓		Launch date	Q4'23
Intel® Turbo Boost Technology	2.0		Status	Launched
Intel® AES New Instructions (Intel® AES-NI)	✓		Package carrier	E1B
Intel Trusted Execution Technology	✓		Servicing status	Baseline Servicing
Intel® Speed Shift Technology	✓		Weight & dimensions	
Intel® Transactional Synchronization Extensions	✓		Processor package size	77.5 x 56.5 mm



0889488717842



889488717842

Catalog Object Cloud



Disclaimer. The information published here (the "Information") is based on sources that can be considered reliable, typically the manufacturer, but this Information is provided "AS IS" and without guarantee of correctness or completeness. The Information is only indicative and can be changed at any time without notification. No rights can be based on the Information. Suppliers or aggregators of this Information do not accept any liability with regard to the content of (web)pages and other documents, including its Information. The publisher of the Information can not be held liable for the content of 3rd party websites that are linking this Information or are linked to from this Information. You as the User of the Information are solely responsible for the choice and usage of this Information. You are not entitled to transfer, copy or otherwise multiply or distribute the Information. You are obliged to follow the directions of the copyright owner(s) with regard to the use of the Information. Exclusively Dutch law is applicable. With regard to price and stock data on the site, the publisher followed a number of starting points, which are not necessarily relevant for your private or business circumstances. Therefore, the price and stock data are only indicative and are subject to changes. You are personally responsible for the way you use and apply this information. As a user of the Information or sites or documents in which this Information is included, you will adhere to standard fair use including avoidance of spamming, ripping, intellectual-property violations, privacy violations, and any other illegal activity. Automated scraping, data mining, or harvesting for the purpose of training machine learning models, neural networks, or artificial intelligence systems is strictly prohibited without a commercial license.