



Lenovo Intel Xeon Silver 4510 processor 2.4 GHz 30 MB Tray

Brand : Lenovo

Product code: 4XG7A91455

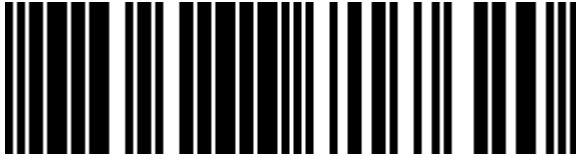
Product name : Intel Xeon Silver 4510

Intel Xeon Silver 4510 12C 150W 2.4GHz Processor Option Kit w/o
Lenovo Intel Xeon Silver 4510. Processor family: Intel Xeon Silver, Processor socket: LGA 4677 (Socket E), Package type: Tray. 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	✓
Package type *	Tray	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



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