



Lenovo Intel Xeon Silver 4510 processeur 2,4 GHz 30 Mo

Marque : Lenovo

Code produit: 4XG7A91455

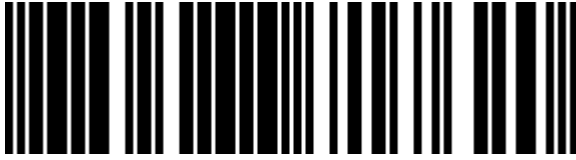
Nom du produit : Intel Xeon Silver 4510

Lenovo Intel Xeon Silver 4510. Famille de processeur: Intel® Xeon® Silver, Socket de processeur (réceptacle de processeur): FCLGA4677, Fabricant de processeur: Intel. Canaux de mémoire: Octa-canal, Mémoire interne maximum prise en charge par le processeur: 4 To, Types de mémoires pris en charge par le processeur: DDR5-SDRAM. Conditions d'utilisation: Server/Enterprise, Set d'instructions pris en charge: AMX, AVX, AVX 2.0, AVX-512, SSE4.2, Évolutivité: 2S. Prise en charge de la taille maximale des enclaves pour Intel® SGX: 64 Go. Taille de l'emballage du processeur: 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 *	FCLGA4677	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	✓
Box *	✗	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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