Lenovo Intel Xeon Silver 4510 Prozessor 2,4 GHz 30 MB

Marke : Lenovo **Artikel-Code:** 4XG7A93046

Produktname : Intel Xeon Silver 4510

Lenovo Intel Xeon Silver 4510. Prozessorfamilie: Intel® Xeon Silver, Prozessorsockel: LGA 4677 (Socket E), Prozessorhersteller: Intel. Speicherkanäle: Okta-Kanal, Maximaler interner Speicher, vom Prozessor unterstützt: 4 TB, Speichertypen, vom Prozessor unterstützt: DDR5-SDRAM. Nutzungsbedingungen: Server/Enterprise, Unterstützte Befehlssätze: AMX, AVX, AVX 2.0, AVX-512, SSE4.2, Skalierbarkeit: 2S. Unterstützung der maximalen Enklavengröße für Intel® SGX: 64 GB. Prozessor-Paketgröße: 77.5 x 56.5 mm

Prozessor	
Prozessorhersteller *	Intel
Prozessorgeneration	Intel Xeon Scalable 5th Gen
Prozessor *	4510
Grundfrequenz des Prozessors *	2,4 GHz
Prozessorfamilie *	Intel® Xeon Silver
Anzahl Prozessorkerne *	12
Prozessorsockel *	LGA 4677 (Socket E)
Prozessor-Threads	24
Intel® UPI-Geschwindigkeit	16 GT/s
Prozessorbetriebsmodi *	64-Bit
Prozessor Boost-Frequenz	4,1 GHz
Prozessor-Cache	30 MB
Thermal Design Power (TDP)	150 W
Kühler enthalten *	✗
Prozessor Codename	Sapphire Rapids

Speicher	
Maximaler interner Speicher, vom Prozessor unterstützt	4 TB
Speichertypen, vom Prozessor unterstützt	DDR5-SDRAM
Speichertaktraten, vom Prozessor unterstützt	4400 MHz
Speicherkanäle *	Okta-Kanal
ECC	✓

Grafik	
Eingebaute Grafikadapter *	✗
Separater Grafikadapter *	✗
Eingebautes Grafikkartenmodell *	Nicht verfügbar
Separates Grafikkartenmodell *	Nicht verfügbar

Merkmale	
Execute Disable Bit	✓
Nutzungsbedingungen	Server/Enterprise
Maximale Anzahl der PCI-Express-Lanes	80
PCI-Express-Slots-Version	5.0
Unterstützte Befehlssätze	AMX, AVX, AVX 2.0, AVX-512, SSE4.2
Skalierbarkeit	2S
Eingebettete Optionen verfügbar	✓

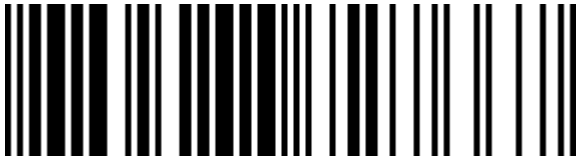
Prozessor Besonderheiten	
Intel® Transactional Synchronization Extensions	✓
Intel® Total Memory Encryption	✓
Intel® Control-flow Enforcement Technology (CET)	✓
Intel® Crypto-Beschleunigung	✓
Unterstützung der Intel® Plattform-Firmware Resilience	✓
Unterstützung der maximalen Enklavengröße für Intel® SGX	64 GB
Intel® VT-x mit Extended Page Tables (EPT)	✓
Intel® OS Guard	✓
Intel® Software Guard Extensions (Intel® SGX)	✓
Intel® 64	✓
Intel® Virtualization Technologie (VT-X)	✓
Intel® Virtualisierungstechnik für direkte I/O (VT-d)	✓
AVX-512 Abgesicherte Multiply-Add (FMA) Einheiten	2
Intel® Boot Guard	✓
Intel® Deep Learning Boost (Intel® DL Boost) on CPU	✓
Intel® Resource Director Technology (Intel® RDT)	✓
Intel® Volume Management Device (VMD)	✓
Modusbasierte Execute Control (MBE)	✓
Intel® Total Memory Encryption - Multi Key	✓
Intel® QuickAssist Software Acceleration	✓
Aktivierung von Intel® On Demand-Funktionen	✓
Intel® Data Streaming Accelerator (DSA)	1
Intel® In-memory Analytics Accelerator (IAA)	1
Intel® Advanced Matrix Extensions (AMX)	✓

Prozessor Besonderheiten	
Intel® Hyper-Threading-Technik (Intel® HT Technology)	✔
Intel® Turbo-Boost-Technologie	2.0
Intel® AES New Instructions (Intel® AES-NI)	✔
Intel® Trusted-Execution-Technik	✔
Intel®-Speed-Shift-Technologie	✔

Betriebsbedingungen	
Tcase	84 °C
DTS Max	102 °C

Technische Details	
Startdatum	Q4'23
Status	Launched
Paketträger	E1B
Instandhaltungsstatus	Baseline Servicing

Gewicht und Abmessungen	
Prozessor-Paketgröße	77.5 x 56.5 mm



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