



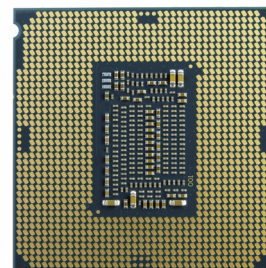
Lenovo Intel Xeon Silver 4509Y processor 2.6 GHz 22.5 MB

Brand : Lenovo

Product code: 4XG7A91456

Product name : Intel Xeon Silver 4509Y

ThinkSystem SR650 V3 Intel Xeon Silver 4509Y 8C 125W 2.6GHz Processor Option Kit w/o Fan
Lenovo Intel Xeon Silver 4509Y. Processor family: Intel® Xeon®, 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. Market segment: Server, Use conditions: Server/Enterprise, Supported instruction sets: AMX, AVX, AVX 2.0, AVX-512, SSE4.2. Intel® Data Streaming Accelerator (DSA): 1 default devices. Processor package size: 77.5 x 56.5 mm



Processor		Processor special features	
Processor manufacturer *	Intel	Intel® Transactional Synchronization Extensions	✓
Processor generation	Intel Xeon Scalable 5th Gen	Intel® Total Memory Encryption	✓
Processor model *	4509Y	Intel® Control-flow Enforcement Technology (CET)	✓
Processor base frequency *	2.6 GHz	Intel® Crypto Acceleration	✓
Processor family *	Intel® Xeon®	Intel® Platform Firmware Resilience Support	✓
Processor cores *	8	Intel VT-x with Extended Page Tables (EPT)	✓
Processor socket *	LGA 4677 (Socket E)	Intel® OS Guard	✓
Processor threads	16	Intel Software Guard Extensions (Intel SGX)	✓
Intel® UPI Speed	16 GT/s	Intel 64	✓
Processor boost frequency	4.1 GHz	Intel Virtualization Technology (VT-x)	✓
Processor cache	22.5 MB	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Thermal Design Power (TDP)	125 W	AVX-512 Fused Multiply-Add (FMA) units	2
Cooler included *	✗	Intel® Boot Guard	✓
Processor codename	Sapphire Rapids	Intel® Deep Learning Boost (Intel® DL Boost) on CPU	✓
Memory		Intel® Resource Director Technology (Intel® RDT)	✓
Maximum internal memory supported by processor	4 TB	Intel® Volume Management Device (VMD)	✓
Memory types supported by processor	DDR5-SDRAM	Mode-based Execute Control (MBE)	✓
Memory channels *	Octa-channel	Intel® Total Memory Encryption - Multi Key	✓
ECC	✓		
Graphics			
On-board graphics card *	✗		
Discrete graphics card *	✗		
On-board graphics card model *	Not available		
Discrete graphics card model *	Not available		

Features		Processor special features	
Execute Disable Bit	✓	Intel® QuickAssist Software Acceleration	✓
Market segment	Server	Intel® Data Streaming Accelerator (DSA)	1 default devices
Use conditions	Server/Enterprise	Intel® Advanced Matrix Extensions (AMX)	✓
Maximum number of PCI Express lanes	80	Operational conditions	
PCI Express slots version	5.0	Tcase	84 °C
Supported instruction sets	AMX, AVX, AVX 2.0, AVX-512, SSE4.2	DTS Max	100 °C
Scalability	2S	Technical details	
Embedded options available	✓	Launch date	Q4'23
Processor special features		Status	Launched
Intel® Hyper Threading Technology (Intel® HT Technology)	✓	Number of UPI links	2
Intel® Turbo Boost Technology	2.0	Package carrier	E1B
Intel® AES New Instructions (Intel® AES-NI)	✓	Weight & dimensions	
Intel Trusted Execution Technology	✓	Processor package size	77.5 x 56.5 mm
Intel® Speed Shift Technology	✓	Other features	
		Maximum internal memory	4 TB



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Catalog Object Cloud



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