



Fujitsu Intel Xeon Silver 4509Y processor 2.6 GHz 22.5 MB



Brand : Fujitsu

Product code: PY-CP68X2

Product name : Intel Xeon Silver 4509Y

Intel Xeon Silver 4509Y Processor 22.5M Cache, 2.60 GHz

Fujitsu 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. Maximum internal memory: 4 TB

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	✓	Intel® QuickAssist Software Acceleration	✓
Graphics		Intel® Data Streaming Accelerator (DSA)	1 default devices
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	100 °C
Features		Technical details	
Execute Disable Bit	✓	Launch date	Q4'23
Market segment	Server	Status	Launched
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)	✓	Number of UPI links	2
Intel® Turbo Boost Technology	2.0	Package carrier	E1B
Intel® AES New Instructions (Intel® AES-NI)	✓	Other features	
Intel Trusted Execution Technology	✓	Maximum internal memory	4 TB
Intel® Speed Shift Technology	✓		



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