



HP Intel Xeon Silver 4516Y+ processor 2.2 GHz 45 MB

Brand : HP

Product code: 9Z8B5AV

Product name : Intel Xeon Silver 4516Y+

Intel Xeon Silver 4516Y+ Processor 45M Cache, 2.20 GHz

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HP Intel Xeon Silver 4516Y+. Processor family: Intel Xeon Silver, 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. Maximum Enclave Size Support for Intel® SGX: 64 GB, Intel® QuickAssist Technology (QAT): 1 default devices, Intel® Dynamic Load Balancer (DLB): 1 default devices. Maximum internal memory: 4 TB



Processor		Processor special features	
Processor manufacturer *	Intel	Intel® Control-flow Enforcement Technology (CET)	✓
Processor generation	Intel Xeon Scalable 5th Gen	Intel® Crypto Acceleration	✓
Processor model *	4516Y+	Intel® Platform Firmware Resilience Support	✓
Processor base frequency *	2.2 GHz	Maximum Enclave Size Support for Intel® SGX	64 GB
Processor family *	Intel Xeon Silver	Intel VT-x with Extended Page Tables (EPT)	✓
Processor cores *	24	Intel® OS Guard	✓
Processor socket *	LGA 4677 (Socket E)	Intel Software Guard Extensions (Intel SGX)	✓
Processor series	Intel Xeon Silver 4000 Series	Intel 64	✓
Processor threads	48	Intel Virtualization Technology (VT-x)	✓
Intel® UPI Speed	16 GT/s	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Processor operating modes *	64-bit	AVX-512 Fused Multiply-Add (FMA) units	2
Processor boost frequency	3.7 GHz	Intel® Boot Guard	✓
Processor cache	45 MB	Intel® Deep Learning Boost (Intel® DL Boost) on CPU	✓
Thermal Design Power (TDP)	185 W	Intel® Resource Director Technology (Intel® RDT)	✓
Stepping	R1	Intel® Volume Management Device (VMD)	✓
Processor codename	Emerald Rapids	Mode-based Execute Control (MBE)	✓
Processor ARK ID	237556	Intel® Total Memory Encryption - Multi Key	✓
Memory		Intel® QuickAssist Software Acceleration	✓
Maximum internal memory supported by processor	4 TB	Intel® On Demand Feature Activation	✓
Memory types supported by processor	DDR5-SDRAM	Intel® QuickAssist Technology (QAT)	1 default devices
Memory channels *	Octa-channel	Intel® Dynamic Load Balancer (DLB)	1 default devices
ECC	✓	Intel® Data Streaming Accelerator (DSA)	1 default devices
Graphics		Intel® In-memory Analytics Accelerator (IAA)	1 default devices
On-board graphics card *	✗	Intel® Advanced Matrix Extensions (AMX)	✓
Discrete graphics card *	✗		
On-board graphics card model *	Not available		
Discrete graphics card model *	Not available		
Features			
Execute Disable Bit	✓		
Market segment	Server		
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	25		

Features		Processor special features	
Embedded options available	✓	Intel® Speed Select Technology - Core Power	✓
Export Control Classification Number (ECCN)	5A992C	Operational conditions	
Commodity Classification Automated Tracking System (CCATS)	740.17B1	Tcase	81 °C
Processor special features		DTS Max	90 °C
Intel® Hyper Threading Technology (Intel® HT Technology)	✓	Technical details	
Intel® Turbo Boost Technology	2.0	Launch date	Q4'23
Intel® AES New Instructions (Intel® AES-NI)	✓	Status	Launched
Intel Trusted Execution Technology	✓	Number of UPI links	2
Intel® Speed Shift Technology	✓	Package carrier	E1B
Intel® Transactional Synchronization Extensions	✓	Servicing status	Baseline Servicing
Intel® Total Memory Encryption	✓	Logistics data	
		Harmonized System (HS) code	8542310001
		Other features	
		Maximum internal memory	4 TB

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