



DELL Intel Xeon Silver 4514Y processor 2 GHz 30 MB

Merk : DELL

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Productnaam : Intel Xeon Silver 4514Y

Xeon Silver 4514Y 2G 16C/32T 16GT/s 30M Cache Turbo HT (150W) DDR5-4400
DELL Intel Xeon Silver 4514Y. Processorfamilie: Intel® Xeon®, Processor socket: FCLGA4677, Processor lithografie: 7 nm. Geheugen kanaal: Achtkanaals, Maximaal intern geheugen ondersteund door processor: 4 TB, Geheugentypen ondersteund door processor: DDR5-SDRAM. Marktsegment: Server, Ondersteunde instructie sets: AMX, AVX, AVX 2.0, AVX-512, SSE4.2, Schaalbaarheid: 2S. Ondersteuning voor maximale enclavegrootte voor Intel® SGX: 64 GB, Intel® Data Streaming Accelerator (DSA): 1 default devices. Verpakkingsgrootte processor: 77.5 x 56.5 mm



Processor		Processor speciale functies	
Processorfabrikant *	Intel	Intel® Transactional Synchronization Extensions	✓
Processorgeneratie	Intel Xeon Scalable 5th Gen	Intel® Total Memory Encryption	✓
Processormodel *	4514Y	Intel® Control-flow Enforcement Technology (CET)	✓
Basisfrequentie processor *	2 GHz	Intel® Crypto Acceleration	✓
Processorfamilie *	Intel® Xeon®	Ondersteuning voor Intel® Platform Firmware Resilience	✓
Aantal processorkernen *	16	Ondersteuning voor maximale enclavegrootte voor Intel® SGX	64 GB
Processor socket *	FCLGA4677	Intel® VT-x with Extended Page Tables (EPT)	✓
Component voor	Server/werkplaats	Intel® OS Guard	✓
Processor lithografie *	7 nm	Intel® Software Guard Extensions (Intel® SGX)	✓
Processor aantal threads	32	Intel® 64	✓
Intel® UPI-snelheid	16 GT/s	Intel® Virtualization Technology (VT-x)	✓
Processor operating modes *	64-bit	Intel® Virtualization Technology for Directed I/O (VT-d)	✓
Maximale turbofrequentie van processor	3,4 GHz	AVX-512 Fused Multiply-Add (FMA) eenheden	2
Processor cache	30 MB	Intel® Boot Guard	✓
Thermal Design Power (TDP)	150 W	Intel® Deep Learning Boost (Intel® DL Boost) on CPU	✓
Box *	✗	Intel® Resource Director-technologie (Intel® RDT)	✓
Inclusief koeler *	✗	Intel® Volume Management Device (VMD)	✓
Codenaam processor	Emerald Rapids	Mode-based Execute Control (MBE)	✓
Geheugen		Intel® totale geheugencodering - Meerdere sleutels	✓
Maximaal intern geheugen ondersteund door processor	4 TB	Intel® QuickAssist-softwareversnelling	✓
Geheugentypen ondersteund door processor	DDR5-SDRAM	Intel® On Demand Feature Activation	✓
Klokgeheugen-snelheden ondersteund door processor	4400 MHz	Intel® Data Streaming Accelerator (DSA)	1 default devices
Geheugen kanaal *	Achtkanaals	Intel® Advanced Matrix Extensions (AMX)	✓
ECC	✓	Intel® Speed Select-technologie - Kernvermogen	✓
Grafisch		Eisen aan de omgeving	
Ingebouwde grafische adapter *	✗	Tcase	79 °C
Aparte grafische adapter *	✗		
On-board graphics adapter model *	Niet beschikbaar		
Discreet grafische adapter model *	Niet beschikbaar		
Kenmerken			
Execute Disable Bit	✓		
Marktsegment	Server		
Maximaal aantal PCI Express-lijnen	80		
PCI Express slots versie	5.0		
Ondersteunde instructie sets	AMX, AVX, AVX 2.0, AVX-512, SSE4.2		

Kenmerken		Eisen aan de omgeving	
Schaalbaarheid	25	DTS Max	90 °C
Ingebouwde opties beschikbaar	✓		
Processor speciale functies		Technische details	
Intel® Hyper Threading Technology (Intel® HT Technology)	✓	Lanceringsdatum	Q4'23
Intel® Turbo Boost Technology	2.0	Status	Launched
Intel® AES New Instructions (Intel® AES-NI)	✓	Ondersteunde geheugen types	DDR5-SDRAM
Intel® Trusted Execution Technology	✓	Geheugensnelheid (max)	4400 MHz
Intel® Speed Shift-technologie	✓	Pakketvervoerder (package carrier)	E1B
		Gewicht en omvang	
		Verpakkingsgrootte processor	77.5 x 56.5 mm
		Overige specificaties	
		Maximum intern geheugen	4 TB



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