



DELL Intel Xeon Gold 5416S processor 2 GHz 30 MB

Merk : DELL

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Productnaam : Intel Xeon Gold 5416S

Intel® Xeon® Gold 5416S 2GHz Sixteen Core Processor, 16C/32T, 16GT/s, 30M Cache, Turbo, HT (150W) DDR5-4400, Customer Install
 DELL Intel Xeon Gold 5416S. Processorfamilie: Intel® Xeon® Gold, Processor socket: LGA 4677 (Socket E), Processorfabrikant: Intel. Geheugen kanaal: Achtkanaals, Maximaal intern geheugen ondersteund door processor: 4 TB, Geheugentypen ondersteund door processor: DDR5-SDRAM. Marktsegment: Server, Gebruiksvoorwaarden: Server/Enterprise, Ondersteunde instructie sets: AMX, SSE4.2, AVX, AVX 2.0, AVX-512. Ondersteuning voor maximale enclavegrootte voor Intel® SGX: 128 GB, Intel® QuickAssist Technology (QAT): 2 default devices, Intel® Dynamic Load Balancer (DLB): 2 default devices. Maximum intern geheugen: 4 TB



Processor		Processor speciale functies	
Processorfabrikant *	Intel	Intel® Trusted Execution Technology	✓
Processorgeneratie	Intel Xeon Scalable 4th Gen	Intel® Speed Shift-technologie	✓
Processormodel *	5416S	Intel® Transactional Synchronization Extensions	✓
Basisfrequentie processor *	2 GHz	Intel® Total Memory Encryption	✓
Processorfamilie *	Intel® Xeon® Gold	Intel® Control-flow Enforcement Technology (CET)	✓
Aantal processorkernen *	16	Intel® Crypto Acceleration	✓
Processor socket *	LGA 4677 (Socket E)	Ondersteuning voor Intel® Platform Firmware Resilience	✓
Processor aantal threads	32	Ondersteuning voor maximale enclavegrootte voor Intel® SGX	128 GB
Systeembus	16 GT/s	Intel® VT-x with Extended Page Tables (EPT)	✓
Processor operating modes *	64-bit	Intel® OS Guard	✓
Maximale turbofrequentie van processor	4 GHz	Intel® Software Guard Extensions (Intel® SGX)	✓
Kernen met hoge prioriteit	4	Intel® 64	✓
Kernfrequentie met hoge prioriteit	2,1 GHz	Intel® Virtualization Technology (VT-x)	✓
Kernen met lage prioriteit	12	Intel® Virtualization Technology for Directed I/O (VT-d)	✓
Kernfrequentie met lage prioriteit	1,7 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® Speed Select-technologie - Prestatieprofiel (Intel® SST-PP)	✓
Stepping	S3	Intel® Resource Director-technologie (Intel® RDT)	✓
Codenaam processor	Sapphire Rapids	Intel® Run Sure-technologie	✓
ARK ID processor	232396	Intel® On Demand Feature Activation	✓
Geheugen		Intel® Optane™ DC Persistent Memory ondersteunt	✓
Maximaal intern geheugen ondersteund door processor	4 TB	Intel® Speed Select-technologie - Basisfrequentie (Intel® SST-BF)	✓
Geheugentypen ondersteund door processor	DDR5-SDRAM	Intel® QuickAssist-softwareversnelling	✓
Klokgeheugen-snelheden ondersteund door processor	4400 MHz	Intel® On Demand Feature Activation	✓
Geheugen kanaal *	Achtkanaals	Intel® QuickAssist Technology (QAT)	2 default devices
ECC	✓		
Grafisch			
Ingebouwde grafische adapter *	✗		
Aparte grafische adapter *	✗		
On-board graphics adapter model *	Niet beschikbaar		
Discreet grafische adapter model *	Niet beschikbaar		
Kenmerken			
Execute Disable Bit	✓		
Marktsegment	Server		

Kenmerken		Processor speciale functies	
Gebruiksvoorwaarden	Server/Enterprise	Intel® Dynamic Load Balancer (DLB)	2 default devices
Maximaal aantal PCI Express-lijnen	80	Intel® Data Streaming Accelerator (DSA)	1 default devices
PCI Express slots versie	5.0	Intel® Advanced Matrix Extensions (AMX)	✓
Ondersteunde instructie sets	AMX, SSE4.2, AVX, AVX 2.0, AVX-512	Eisen aan de omgeving	
Schaalbaarheid	2S	Tcase	79 °C
Ingebouwde opties beschikbaar	✗	DTS Max	90 °C
Export Control Classification Number (ECCN)	5A992C	Technische details	
Commodity Classification Automated Tracking System (CCATS)	G180729	Lanceringsdatum	Q1'23
Processor speciale functies		Status	Launched
Intel® Hyper Threading Technology (Intel® HT Technology)	✓	Geheugensnelheid (max)	4400 MHz
Intel® Turbo Boost Technology	2.0	Aantal UPI-koppelingen	3
Intel® AES New Instructions (Intel® AES-NI)	✓	Pakketvervoerder (package carrier)	E1B
		Overige specificaties	
		Maximum intern geheugen	4 TB



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