



DELL Intel Xeon Gold 5416S processor 2 GHz 30 MB

Brand : DELL

Product code: 338-CLVY

Product name : 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

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The Intel Xeon® Gold 5416S 2GHz Sixteen Core Processor enhances the performance and the speed of your system. Additionally, the Virtualization Technology enables migration of more environments. It supports enhanced SpeedStep® technology that allows tradeoffs to be made between performance and power consumption.

Its Thermal Monitoring Technologies protect the processor package and the system from thermal failure through several thermal management features. The VT-x with Extended Page Tables (EPT) also known as Second Level Address Translation (SLAT), provides acceleration for memory intensive virtualized applications. Packed with more features, the Xeon Gold 5416S 2GHz Sixteen Core Processor is the ideal choice for virtually all of your data demanding or standard enterprise infrastructure applications.



Processor		Processor special features	
Processor manufacturer *	Intel	Intel® Transactional Synchronization Extensions	✓
Processor generation	Intel Xeon Scalable 4th Gen	Intel® Total Memory Encryption	✓
Processor model *	5416S	Intel® Control-flow Enforcement Technology (CET)	✓
Processor base frequency *	2 GHz	Intel® Crypto Acceleration	✓
Processor family *	Intel® Xeon® Gold	Intel® Platform Firmware Resilience Support	✓
Processor cores *	16	Maximum Enclave Size Support for Intel® SGX	128 GB
Processor socket *	LGA 4677 (Socket E)	Intel VT-x with Extended Page Tables (EPT)	✓
Processor threads	32	Intel® OS Guard	✓
System bus rate	16 GT/s	Intel Software Guard Extensions (Intel SGX)	✓
Processor operating modes *	64-bit	Intel 64	✓
Processor boost frequency	4 GHz	Intel Virtualization Technology (VT-x)	✓
High priority cores	4	Intel Virtualization Technology for Directed I/O (VT-d)	✓
High priority core frequency	2.1 GHz	AVX-512 Fused Multiply-Add (FMA) units	2
Low priority cores	12	Intel® Boot Guard	✓
Low priority core frequency	1.7 GHz	Intel® Deep Learning Boost (Intel® DL Boost) on CPU	✓
Processor cache	30 MB	Intel® Speed Select technology - Performance Profile (Intel® SST-PP)	✓
Thermal Design Power (TDP)	150 W	Intel® Resource Director Technology (Intel® RDT)	✓
Box *	✗	Intel® Run Sure Technology	✓
Stepping	S3	Mode-based Execute Control (MBE)	✓
Processor codename	Sapphire Rapids	Intel® Optane™ DC Persistent Memory Supported	✓
Processor ARK ID	232396	Intel® Speed Select Technology - Base Frequency (Intel® SST-BF)	✓
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)	2 default devices
Memory clock speeds supported by processor	4400 MHz		
Memory channels *	Octa-channel		
ECC	✓		
Graphics			
On-board graphics card *	✗		
Discrete graphics card *	✗		
On-board graphics card model *	Not available		
Discrete graphics card model *	Not available		
Features			
Execute Disable Bit	✓		

Features		Processor special features	
Market segment	Server	Intel® Dynamic Load Balancer (DLB)	2 default devices
Use conditions	Server/Enterprise	Intel® Data Streaming Accelerator (DSA)	1 default devices
Maximum number of PCI Express lanes	80	Intel® Advanced Matrix Extensions (AMX)	✓
PCI Express slots version	5.0	Operational conditions	
Supported instruction sets	AMX, SSE4.2, AVX, AVX 2.0, AVX-512	Tcase	79 °C
Scalability	2S	DTS Max	90 °C
Embedded options available	✗	Technical details	
Export Control Classification Number (ECCN)	5A992C	Launch date	Q1'23
Commodity Classification Automated Tracking System (CCATS)	G180729	Status	Launched
Processor special features		Memory speed (max)	4400 MHz
Intel® Hyper Threading Technology (Intel® HT Technology)	✓	Number of UPI links	3
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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