



DELL Intel Xeon Gold 5416S suoritin 2 GHz 30 MB

Tuotemerkki : DELL

Tuotekoodi: 338-CLVY

Tuotteen nimi : Intel Xeon Gold 5416S

DELL Intel Xeon Gold 5416S. Suoritinperhe: Intel® Xeon® Gold, Prosessorin kanta: LGA 4677 (Socket E), Suoritinvalmistaja: Intel. Muistikanavat: Octa-kanava, Prosessorin tukema suurin sisäinen muisti: 4 TB, Prosessorin tukemat muistityypit: DDR5-SDRAM. Markkinasegmentti: Palvelin, Käyttöolosuhteet: Server/Enterprise, Tuetut ohjepaketit: AMX, SSE4.2, AVX, AVX 2.0, AVX-512. Intel® SGX:n tuettu enklaavin enimmäiskoko: 128 GB, Intel® QuickAssist Technology (QAT): 2 default devices, Intelin® dynaaminen kuorman tasaaja (DLB): 2 default devices. Sisäinen enimmäismuisti: 4 TB



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	Intel® Dynamic Load Balancer (DLB)	2 default devices
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	✓		
Market segment	Server		

Features		Processor special features	
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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