



## Fujitsu Intel Xeon Gold 5416S 16C 2.0 GHz processor 2 GHz 30 MB

**Brand :** Fujitsu

**Product code:** PY-CP65XU

**Product name :** Intel Xeon Gold 5416S 16C 2.0 GHz

Intel Xeon Gold 5416S 16C 2.0 GHz

Fujitsu Intel Xeon Gold 5416S 16C 2.0 GHz. Processor family: Intel® Xeon® Gold, Processor socket: LGA 4677 (Socket E), Processor manufacturer: Intel. Memory channels: Octa-channel, Maximum internal memory supported by processor: 6 TB, Memory types supported by processor: DDR5-SDRAM. Market segment: Server, Use conditions: Server/Enterprise, Supported instruction sets: AMX, SSE4.2, AVX, AVX 2.0, AVX-512. Maximum Enclave Size Support for Intel® SGX: 128 GB, Intel® QuickAssist Technology (QAT): 2 default devices, Intel® Dynamic Load Balancer (DLB): 2 default devices. Processor package size: 77.5 x 56.5 mm



Processor		Processor special features	
Processor manufacturer *	Intel	Intel® Total Memory Encryption	✓
Processor generation	Intel Xeon Scalable 4th Gen	Intel® Control-flow Enforcement Technology (CET)	✓
Processor model *	5416S	Intel® Crypto Acceleration	✓
Processor base frequency *	2 GHz	Intel® Platform Firmware Resilience Support	✓
Processor family *	Intel® Xeon® Gold	Maximum Enclave Size Support for Intel® SGX	128 GB
Processor cores *	16	Intel VT-x with Extended Page Tables (EPT)	✓
Processor socket *	LGA 4677 (Socket E)	Intel® OS Guard	✓
Processor threads	32	Intel Software Guard Extensions (Intel SGX)	✓
System bus rate	16 GT/s	Intel 64	✓
Processor operating modes *	64-bit	Intel Virtualization Technology (VT-x)	✓
Processor boost frequency	4 GHz	Intel Virtualization Technology for Directed I/O (VT-d)	✓
High priority cores	4	AVX-512 Fused Multiply-Add (FMA) units	2
High priority core frequency	2.1 GHz	Intel® Boot Guard	✓
Low priority cores	12	Intel® Deep Learning Boost (Intel® DL Boost) on CPU	✓
Low priority core frequency	1.7 GHz	Intel® Speed Select technology - Performance Profile (Intel® SST-PP)	✓
Processor cache	30 MB	Intel® Resource Director Technology (Intel® RDT)	✓
Thermal Design Power (TDP)	150 W	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		
Memory			
Maximum internal memory supported by processor	6 TB		
Memory types supported by processor	DDR5-SDRAM		
Memory channels *	Octa-channel		
ECC	✓		
Graphics			
On-board graphics card *	✗		

Graphics		Processor special features	
Discrete graphics card *	✗	Intel® Speed Select Technology - Base Frequency (Intel® SST-BF)	✓
On-board graphics card model *	Not available	Intel® QuickAssist Software Acceleration	✓
Discrete graphics card model *	Not available	Intel® On Demand Feature Activation	✓
Features		Intel® QuickAssist Technology (QAT)	2 default devices
Execute Disable Bit	✓	Intel® Dynamic Load Balancer (DLB)	2 default devices
Market segment	Server	Intel® Data Streaming Accelerator (DSA)	1 default devices
Use conditions	Server/Enterprise	Intel® Advanced Matrix Extensions (AMX)	✓
Maximum number of PCI Express lanes	80	Operational conditions	
PCI Express slots version	5.0	Tcase	79 °C
Supported instruction sets	AMX, SSE4.2, AVX, AVX 2.0, AVX-512	DTS Max	90 °C
Scalability	2S	Technical details	
Embedded options available	✗	Launch date	Q1'23
Export Control Classification Number (ECCN)	5A992C	Status	Launched
Commodity Classification Automated Tracking System (CCATS)	G180729	Memory speed (max)	4400 MHz
Processor special features		Number of UPI links	3
Intel® Hyper Threading Technology (Intel® HT Technology)	✓	Package carrier	E1B
Intel® Turbo Boost Technology	2.0	Weight & dimensions	
Intel® AES New Instructions (Intel® AES-NI)	✓	Processor package size	77.5 x 56.5 mm
Intel Trusted Execution Technology	✓	Other features	
Intel® Speed Shift Technology	✓	Maximum internal memory	4 TB
Intel® Transactional Synchronization Extensions	✓		



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