FUJITSU

Fujitsu Xeon Silver 4316 processor 2.3 GHz 30 MB Tray

Brand : Fujitsu **Product family:** Xeon **Product code:** PY-CP62XK

Product name : Xeon Silver 4316



Intel Xeon-Silver 4316 2.3GHz 20-core 150W
Fujitsu Xeon Silver 4316. Processor family: Intel Xeon Silver, Processor socket: LGA 4189, Processor lithography: 10 nm. Memory channels: Octa-channel, Maximum internal memory supported by processor: 6 TB, Memory types supported by processor: DDR4-SDRAM. Market segment: Server, Supported instruction sets: SSE4.2, AVX, AVX 2.0, AVX-512, Scalability: 2S. Maximum Enclave Size Support for Intel® SGX: 8 GB. Processor package size: 77.5 x 56.5 mm



Processor	
Processor manufacturer *	Intel
Processor generation	3rd Generation Intel® Xeon® Scalable
Processor model *	4316
Processor base frequency *	2.3 GHz
Processor family *	Intel Xeon Silver
Processor cores *	20
Processor socket *	LGA 4189
Component for	Server/workstation
Processor lithography *	10 nm
Processor threads	40
System bus rate	10.4 GT/s
Processor operating modes *	64-bit
Processor boost frequency	3.4 GHz
Processor cache	30 MB
Thermal Design Power (TDP)	150 W
Package type *	Tray
Cooler included *	✗
Processor codename	Ice Lake
Processor ARK ID	215270

Memory	
Maximum internal memory supported by processor	6 TB
Memory types supported by processor	DDR4-SDRAM
Memory clock speeds supported by processor	2667 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	✓
Market segment	Server
Maximum number of PCI Express lanes	64
PCI Express slots version	4.0
Supported instruction sets	SSE4.2, AVX, AVX 2.0, AVX-512

Processor special features	
Intel® AES New Instructions (Intel® AES-NI)	✓
Intel Trusted Execution Technology	✓
Intel® Speed Shift Technology	✓
Intel® Transactional Synchronization Extensions	✓
Intel® Total Memory Encryption	✓
Intel® Crypto Acceleration	✓
Intel® Platform Firmware Resilience Support	✓
Maximum Enclave Size Support for Intel® SGX	8 GB
Intel VT-x with Extended Page Tables (EPT)	✓
Intel Software Guard Extensions (Intel SGX)	✓
Intel 64	✓
Intel Virtualization Technology (VT-x)	✓
Intel Virtualization Technology for Directed I/O (VT-d)	✓
AVX-512 Fused Multiply-Add (FMA) units	2
Intel® Deep Learning Boost (Intel® DL Boost) on CPU	✓
Intel® Resource Director Technology (Intel® RDT)	✓
Intel® Volume Management Device (VMD)	✓
Mode-based Execute Control (MBE)	✓
Intel® Optane™ DC Persistent Memory Supported	✗

Operational conditions	
Tcase	84 °C

Technical details	
Target market	Cloud Computing
Launch date	Q2'21
Status	Launched
Supported memory types	DDR4-SDRAM
Memory speed (max)	2667 MHz
Number of UPI links	2

Logistics data	
Harmonized System (HS) code	85423119

Features	
Scalability	2S
Embedded options available	✔
Export Control Classification Number (ECCN)	5A992CN3
Commodity Classification Automated Tracking System (CCATS)	G178966

Processor special features	
Intel® Hyper Threading Technology (Intel® HT Technology)	✔
Intel® Turbo Boost Technology	2.0

Weight & dimensions	
Processor package size	77.5 x 56.5 mm

Other features	
Maximum internal memory	6 TB

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