FUJITSU

Fujitsu Xeon 6507P processor 3.5 GHz 48 MB L3

Brand : Fujitsu

Product code: PY-CP70X7

Product name : Xeon 6507P

Intel Xeon 6507P Processor 48M Cache, 3.50 GHz
Fujitsu Xeon 6507P. Processor family: Intel® Xeon®, Processor socket: LGA 4710, Processor manufacturer: Intel. Memory channels: Octa-channel, Maximum internal memory supported by processor: 4 TB, Memory types supported by processor: DDR5-SDRAM. Supported instruction sets: AMX, AVX, AVX 2.0, AVX-512, SSE4.2, Scalability: 2S

Processor	
Processor manufacturer *	Intel
Processor model *	6507P
Processor base frequency *	3.5 GHz
Processor family *	Intel® Xeon®
Processor cores *	8
Processor socket *	LGA 4710
Processor threads	16
Intel® UPI Speed	24 GT/s
Processor operating modes *	64-bit
Processor boost frequency	4.3 GHz
All core Turbo frequency	4.3 GHz
Processor cache	48 MB
Processor cache type	L3
Thermal Design Power (TDP)	150 W
Number of QPI links	3
Processor codename	Granite Rapids

Memory	
Maximum internal memory supported by processor	4 TB
Memory types supported by processor	DDR5-SDRAM
Memory clock speeds supported by processor	6400 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	✔
Maximum number of PCI Express lanes	88
PCI Express slots version	5.0
Supported instruction sets	AMX, AVX, AVX 2.0, AVX-512, SSE4.2
Scalability	2S
Embedded options available	✘

Processor special features	
Intel® Control-flow Enforcement Technology (CET)	✔
Intel® Crypto Acceleration	✔
Intel® Platform Firmware Resilience Support	✔
Intel® Trust Domain Extensions (Intel® TDX)	✔
Intel VT-x with Extended Page Tables (EPT)	✔
Intel® Secure Key	✔
Intel® OS Guard	✔
Intel QuickAssist Technology	✔
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® Boot Guard	✔
Intel® Deep Learning Boost (Intel® DL Boost) on CPU	✔
Intel® Speed Select technology - Performance Profile (Intel® SST-PP)	✘
Intel® Resource Director Technology (Intel® RDT)	✔
Intel® Volume Management Device (VMD)	✔
Intel® Run Sure Technology	✔
Mode-based Execute Control (MBE)	✔
Intel® Speed Select Technology - Base Frequency (Intel® SST-BF)	✘
Intel® Total Memory Encryption - Multi Key	✔
Intel® QuickAssist Software Acceleration	✔
Intel® QuickAssist Technology (QAT)	2
Intel® Dynamic Load Balancer (DLB)	2

Processor special features	
Intel® Hyper Threading Technology (Intel® HT Technology)	✔
Intel® Turbo Boost Technology	2.0
Intel® AES New Instructions (Intel® AES-NI)	✔
Intel Trusted Execution Technology	✔
Intel® Speed Shift Technology	✔
Intel® Transactional Synchronization Extensions	✔
Intel® Total Memory Encryption	✔

Processor special features	
Intel® Data Streaming Accelerator (DSA)	2
Intel® In-memory Analytics Accelerator (IAA)	2
Intel® Advanced Matrix Extensions (AMX)	✔
Intel® Speed Select Technology – Core Power	✕
Operational conditions	
Tcase	77 °C
DTS Max	103 °C
Technical details	
Package carrier	E2B

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