

Intel Xeon 9470 processor 2 GHz 105 MB

Brand : Intel

Product family: Xeon

Product code:
PK8071305223200

Product name : 9470

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Intel Xeon 9470. Processor family: Intel® Xeon® CPU Max, Processor socket: LGA 4677 (Socket E), Processor manufacturer: Intel. Memory channels: Octa-channel, Maximum internal memory supported by processor: 4 TB, Memory types supported by processor: DDR4-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: 512 GB, Intel® Data Streaming Accelerator (DSA): 4 default devices. Processor package size: 100 x 56.5 mm



Processor		Processor special features	
Processor manufacturer *	Intel	Intel® Transactional Synchronization Extensions	✓
Processor model *	9470	Intel® Total Memory Encryption	✓
Processor base frequency *	2 GHz	Intel® Control-flow Enforcement Technology (CET)	✓
Processor family *	Intel® Xeon® CPU Max	Intel® Crypto Acceleration	✓
Processor cores *	52	Intel® Platform Firmware Resilience Support	✓
Processor socket *	LGA 4677 (Socket E)	Maximum Enclave Size Support for Intel® SGX	512 GB
Processor threads	104	Intel VT-x with Extended Page Tables (EPT)	✓
System bus rate	16 GT/s	Intel® OS Guard	✓
Processor operating modes *	64-bit	Intel Software Guard Extensions (Intel SGX)	✓
Processor boost frequency	3.5 GHz	Intel 64	✓
Processor cache	105 MB	Intel Virtualization Technology (VT-x)	✓
Thermal Design Power (TDP)	350 W	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Box *	✗	AVX-512 Fused Multiply-Add (FMA) units	2
Stepping	B3	Intel® Boot Guard	✓
Processor codename	Sapphire Rapids HBM	Intel® Deep Learning Boost (Intel® DL Boost)	✓
Processor ARK ID	232594	Intel® Speed Select technology - Performance Profile (Intel® SST-PP)	✓
Memory		Intel® Resource Director Technology (Intel® RDT)	✓
Maximum internal memory supported by processor	4 TB	Intel® Run Sure Technology	✓
Memory types supported by processor	DDR4-SDRAM	Mode-based Execute Control (MBE)	✓
Memory channels *	Octa-channel	Intel® Data Streaming Accelerator (DSA)	4 default devices
ECC	✓	Intel® Advanced Matrix Extensions (AMX)	✓
Graphics		Operational conditions	
On-board graphics card *	✗	Tcase	64 °C
Discrete graphics card *	✗	DTS Max	83 °C
On-board graphics card model *	Not available	Technical details	
Discrete graphics card model *	Not available	Launch date	Q1'23
Features		Status	Launched
Execute Disable Bit	✓	Supported memory types	DDR4-SDRAM
Market segment	Server		
Use conditions	Server/Enterprise		
Maximum number of PCI Express lanes	80		
PCI Express slots version	5.0		
Supported instruction sets	AMX, SSE4.2, AVX, AVX 2.0, AVX-512		
Scalability	2S		
Embedded options available	✗		

Features		Technical details	
Export Control Classification Number (ECCN)	5A992CN3	Memory speed (max)	4800 MHz
Commodity Classification Automated Tracking System (CCATS)	G180729	Number of UPI links	4
		Package carrier	E1C
Processor special features		Logistics data	
Intel® Hyper Threading Technology (Intel® HT Technology)	✓	Harmonized System (HS) code	8542310001
Intel® Turbo Boost Technology	2.0	Weight & dimensions	
Intel® AES New Instructions (Intel® AES-NI)	✓	Processor package size	100 x 56.5 mm
Intel Trusted Execution Technology	✓	Other features	
Intel® Speed Shift Technology	✓	Maximum internal memory	64 GB

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