

Intel Xeon w5-2445 processor 3.1 GHz 26.25 MB Smart Cache

Brand : Intel

Product family: Xeon

Product code:
PK8071305127400

Product name : w5-2445

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Intel Xeon w5-2445. Processor family: Intel Xeon W, Processor socket: LGA 4677 (Socket E), Processor manufacturer: Intel. Memory channels: Quad-channel, Maximum internal memory supported by processor: 2 TB, Memory types supported by processor: DDR4-SDRAM. Market segment: Workstation, Use conditions: Workstation, Supported instruction sets: SSE4.1, AMX, SSE4.2, AVX 2.0, AVX-512. Intel® Turbo Boost Max Technology 3.0 frequency: 4.6 GHz, Intel® Turbo Boost Technology 2.0 frequency: 4.4 GHz, Intel® QuickAssist Technology (QAT): 0 default devices. Processor package size: 77.5 x 56.5 mm



Processor		Processor special features	
Processor manufacturer *	Intel	Intel® Total Memory Encryption	✓
Processor model *	w5-2445	Intel® Control-flow Enforcement Technology (CET)	✓
Processor base frequency *	3.1 GHz	Intel® Platform Firmware Resilience Support	✓
Processor family *	Intel Xeon W	Intel VT-x with Extended Page Tables (EPT)	✓
Processor cores *	10	Intel® Active Management Technology (Intel® AMT)	✓
Processor socket *	LGA 4677 (Socket E)	Intel® OS Guard	✓
Processor threads	20	Intel Software Guard Extensions (Intel SGX)	✗
Processor operating modes *	64-bit	Intel 64	✓
Performance cores	10	Intel Virtualization Technology (VT-x)	✓
Processor boost frequency	4.6 GHz	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Processor cache	26.25 MB	Intel Turbo Boost Max Technology 3.0	✓
Processor cache type	Smart Cache	AVX-512 Fused Multiply-Add (FMA) units	2
Box *	✗	Intel® Boot Guard	✓
Processor base power	175 W	Intel® Deep Learning Boost (Intel® DL Boost)	✓
Maximum turbo power	210 W	Intel® Resource Director Technology (Intel® RDT)	✗
Stepping	S3	Mode-based Execute Control (MBE)	✓
Bus type	DMI4	Intel® Optane™ DC Persistent Memory Supported	✗
Processor codename	Sapphire Rapids	Intel® vPro™ Platform Eligibility	✓
Processor ARK ID	233481	Intel® One-Click Recovery	✗
Memory		Intel® Remote Platform Erase (RPE)	✗
Maximum internal memory supported by processor	2 TB	Intel® Virtualization Technology with Redirect Protection (VT-rp)	✓
Memory types supported by processor	DDR4-SDRAM	Intel vPro® Enterprise Platform Eligibility	✓
Memory channels *	Quad-channel	Intel® Threat Detection Technology (TDT)	✗
ECC	✓	Intel® Total Memory Encryption - Multi Key	✗
Graphics		Intel® QuickAssist Software Acceleration	✗
On-board graphics card *	✗	Intel® QuickAssist Technology (QAT)	0 default devices
Discrete graphics card *	✗		
On-board graphics card model *	Not available		
Discrete graphics card model *	Not available		
Features			
Execute Disable Bit	✓		
Market segment	Workstation		
Use conditions	Workstation		
Maximum number of PCI Express lanes	64		
PCI Express slots version	5.0		

Features		Processor special features	
Supported instruction sets	SSE4.1, AMX, SSE4.2, AVX 2.0, AVX-512	Intel® Dynamic Load Balancer (DLB)	0 default devices
Scalability	1S	Intel® Data Streaming Accelerator (DSA)	1 default devices
CPU configuration (max)	1	Intel® In-memory Analytics Accelerator (IAA)	0 default devices
Embedded options available	✗	Intel® Advanced Matrix Extensions (AMX)	✓
Direct Media Interface (DMI) Revision	4.0	Operational conditions	
Export Control Classification Number (ECCN)	5A992C	Tcase	72 °C
Commodity Classification Automated Tracking System (CCATS)	G180729	DTS Max	94 °C
Processor special features		Technical details	
Intel® Hyper Threading Technology (Intel® HT Technology)	✓	Launch date	Q1'23
Intel® Turbo Boost Technology	2.0	Status	Launched
Intel® AES New Instructions (Intel® AES-NI)	✓	Memory speed (max)	4800 MHz
Enhanced Intel SpeedStep Technology	✓	Package carrier	E1B
Intel Trusted Execution Technology	✓	Logistics data	
Intel® Speed Shift Technology	✓	Harmonized System (HS) code	8542310001
Intel® Turbo Boost Max Technology 3.0 frequency	4.6 GHz	Weight & dimensions	
Intel® Turbo Boost Technology 2.0 frequency	4.4 GHz	Processor package size	77.5 x 56.5 mm
Intel® Transactional Synchronization Extensions	✓	Other features	
		Maximum internal memory	2 TB



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