

Intel Xeon w5-2455X processor 3.2 GHz 30 MB Smart Cache

Brand : Intel

Product family: Xeon

Product code:
PK8071305127200

Product name : w5-2455X

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Intel Xeon w5-2455X. 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. Package type: Retail box



Processor		Processor special features	
Processor manufacturer *	Intel	Intel® Control-flow Enforcement Technology (CET)	✓
Processor model *	w5-2455X	Intel® Platform Firmware Resilience Support	✓
Processor base frequency *	3.2 GHz	Intel VT-x with Extended Page Tables (EPT)	✓
Processor family *	Intel Xeon W	Intel® Active Management Technology (Intel® AMT)	✓
Processor cores *	12	Intel® OS Guard	✓
Processor socket *	LGA 4677 (Socket E)	Intel Software Guard Extensions (Intel SGX)	✗
Processor threads	24	Intel 64	✓
Processor operating modes *	64-bit	Intel Virtualization Technology (VT-x)	✓
Performance cores	12	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Processor boost frequency	4.6 GHz	Intel Turbo Boost Max Technology 3.0	✓
Processor cache	30 MB	AVX-512 Fused Multiply-Add (FMA) units	2
Processor cache type	Smart Cache	Intel® Boot Guard	✓
Box *	✗	Intel® Deep Learning Boost (Intel® DL Boost)	✓
Processor base power	200 W	Intel® Resource Director Technology (Intel® RDT)	✗
Maximum turbo power	240 W	Mode-based Execute Control (MBE)	✓
Stepping	S3	Intel® Optane™ DC Persistent Memory Supported	✗
Bus type	DMI4	Intel® vPro™ Platform Eligibility	✓
Processor codename	Sapphire Rapids	Intel® One-Click Recovery	✗
Processor ARK ID	233420	Intel® Remote Platform Erase (RPE)	✗
Memory		Intel® Virtualization Technology with Redirect Protection (VT-rp)	✓
Maximum internal memory supported by processor	2 TB	Intel vPro® Enterprise Platform Eligibility	✓
Memory types supported by processor	DDR4-SDRAM	Intel® Threat Detection Technology (TDT)	✗
Memory channels *	Quad-channel	Intel® Total Memory Encryption - Multi Key	✗
ECC	✓	Intel® QuickAssist Software Acceleration	✗
Graphics		Intel® QuickAssist Technology (QAT)	0 default devices
On-board graphics card *	✗	Intel® Dynamic Load Balancer (DLB)	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® Data Streaming Accelerator (DSA)	1 default devices
Scalability	1S	Intel® In-memory Analytics Accelerator (IAA)	0 default devices
CPU configuration (max)	1	Intel® Advanced Matrix Extensions (AMX)	✓
Embedded options available	✗	Operational conditions	
Direct Media Interface (DMI) Revision	4.0	Tcase	77 °C
Export Control Classification Number (ECCN)	5A992C	DTS Max	100 °C
Commodity Classification Automated Tracking System (CCATS)	G180729	Technical details	
Processor special features		Launch date	Q1'23
Intel® Hyper Threading Technology (Intel® HT Technology)	✓	Status	Launched
Intel® Turbo Boost Technology	2.0	Supported memory types	DDR5-SDRAM
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	Packaging data	
Intel® Turbo Boost Technology 2.0 frequency	4.4 GHz	Package type	Retail box
Intel® Transactional Synchronization Extensions	✓	Weight & dimensions	
Intel® Total Memory Encryption	✓	Processor package size	77.5 x 56.5 mm
		Other features	
		Maximum internal memory	2 TB



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