

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

Brand : Intel

Product family: Xeon

Product code: BX807132455X

Product name : w5-2455X

BX807132455X

Intel Xeon w5-2455X. Processor family: Intel Xeon W, Processor socket: FCLGA4677, Processor manufacturer: Intel. Memory channels: Quad-channel, Maximum internal memory supported by processor: 2000 GB, 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 *	FCLGA4677	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	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	200 W	Intel® Deep Learning Boost (Intel® DL Boost)	✓
Maximum turbo power	240 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	233420	Intel® One-Click Recovery	✗
Memory		Intel® Remote Platform Erase (RPE)	✗
Maximum internal memory supported by processor	2000 GB	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 *	✗	Intel® Dynamic Load Balancer (DLB)	0 default devices
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	2000 GB



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