



HP Intel Xeon W5-2455X processor 3.2 GHz 30 MB Smart Cache

Brand : HP

Product code: 709P6AV

Product name : Intel Xeon W5-2455X

Intel Xeon w5-2455X Processor 30M Cache, 3.20 GHz

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HP 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. Maximum internal memory: 2 TB



Processor		Processor special features	
Processor manufacturer *	Intel	Intel® Total Memory Encryption	✓
Processor model *	w5-2455X	Intel® Control-flow Enforcement Technology (CET)	✓
Processor base frequency *	3.2 GHz	Intel® Platform Firmware Resilience Support	✓
Processor family *	Intel Xeon W	Intel VT-x with Extended Page Tables (EPT)	✓
Processor cores *	12	Intel® Active Management Technology (Intel® AMT)	✓
Processor socket *	LGA 4677 (Socket E)	Intel® OS Guard	✓
Processor threads	24	Intel Software Guard Extensions (Intel SGX)	✗
System bus rate	0 GT/s	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	✓
Processor base power	200 W	Intel® Deep Learning Boost (Intel® DL Boost) on CPU	✓
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	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 *	✗		
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® QuickAssist Technology (QAT)	0 default devices
Scalability	1S	Intel® Dynamic Load Balancer (DLB)	0 default devices
CPU configuration (max)	1	Intel® Data Streaming Accelerator (DSA)	1 default devices
Embedded options available	✗	Intel® In-memory Analytics Accelerator (IAA)	0 default devices
Direct Media Interface (DMI) Revision	4.0	Intel® Advanced Matrix Extensions (AMX)	✓
Export Control Classification Number (ECCN)	5A992C	Operational conditions	
Commodity Classification Automated Tracking System (CCATS)	G180729	Tcase	77 °C
Processor special features		DTS Max	100 °C
Intel® Hyper Threading Technology (Intel® HT Technology)	✓	Technical details	
Intel® Turbo Boost Technology	2.0	Launch date	Q1'23
Intel® AES New Instructions (Intel® AES-NI)	✓	Status	Launched
Enhanced Intel SpeedStep Technology	✓	Supported memory types	DDR5-SDRAM
Intel Trusted Execution Technology	✓	Memory speed (max)	4800 MHz
Intel® Speed Shift Technology	✓	Package carrier	E1B
Intel® Turbo Boost Max Technology 3.0 frequency	4.6 GHz	Logistics data	
Intel® Turbo Boost Technology 2.0 frequency	4.4 GHz	Harmonized System (HS) code	8542310001
Intel® Transactional Synchronization Extensions	✓	Other features	
		Maximum internal memory	2 TB

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