



HP Intel Xeon W5-3435X processor 3.1 GHz 45 MB Smart Cache

Brand : HP

Product code: 6M6F4AV

Product name : Intel Xeon W5-3435X

Intel Xeon w5-3435X Processor 45M Cache, 3.10 GHz

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HP Intel Xeon W5-3435X. Processor family: Intel Xeon W, 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: 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: 4.7 GHz, Intel® Turbo Boost Technology 2.0 frequency: 4.5 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 *	w5-3435X	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 *	16	Intel® Active Management Technology (Intel® AMT)	✓
Processor socket *	LGA 4677 (Socket E)	Intel® OS Guard	✓
Processor threads	32	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	16	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Processor boost frequency	4.7 GHz	Intel Turbo Boost Max Technology 3.0	✓
Processor cache	45 MB	AVX-512 Fused Multiply-Add (FMA) units	2
Processor cache type	Smart Cache	Intel® Boot Guard	✓
Cooler included *	✗	Intel® Deep Learning Boost (Intel® DL Boost) on CPU	✓
Processor base power	270 W	Intel® Resource Director Technology (Intel® RDT)	✗
Maximum turbo power	324 W	Mode-based Execute Control (MBE)	✓
Stepping	E5	Intel® Optane™ DC Persistent Memory Supported	✗
Bus type	DMI4	Intel® vPro™ Platform Eligibility	✓
Processor codename	Sapphire Rapids	Intel® One-Click Recovery	✗
Processor ARK ID	233421	Intel® Remote Platform Erase (RPE)	✗
Memory		Intel® Virtualization Technology with Redirect Protection (VT-rp)	✓
Maximum internal memory supported by processor	4 TB	Intel vPro® Enterprise Platform Eligibility	✓
Memory types supported by processor	DDR4-SDRAM	Intel® Threat Detection Technology (TDT)	✗
Memory channels *	Octa-channel	Intel® Total Memory Encryption - Multi Key	✗
ECC	✓	Intel® QuickAssist Software Acceleration	✗
Graphics			
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	112		

Features		Processor special features	
PCI Express slots version	5.0	Intel® QuickAssist Technology (QAT)	0 default devices
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	98 °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)	✓	Supported memory types	DDR4-SDRAM
Enhanced Intel SpeedStep Technology	✓	Memory speed (max)	4800 MHz
Intel Trusted Execution Technology	✓	Package carrier	E1A
Intel® Speed Shift Technology	✓	Logistics data	
Intel® Turbo Boost Max Technology 3.0 frequency	4.7 GHz	Harmonized System (HS) code	8542310001
Intel® Turbo Boost Technology 2.0 frequency	4.5 GHz	Weight & dimensions	
Intel® Transactional Synchronization Extensions	✓	Processor package size	77.5 x 56.5 mm
		Other features	
		Maximum internal memory	4 TB

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