



HP Intel Xeon w9-3575X processor 2.2 GHz 97.5 MB Smart Cache

Brand : HP

Product code: 9A985AV

Product name : Intel Xeon w9-3575X

Intel Xeon w9-3575X Processor 97.5M Cache, 2.20 GHz

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HP Intel Xeon w9-3575X. 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: DDR5-SDRAM. Market segment: Workstation, Use conditions: Workstation, Supported instruction sets: AMX, AVX 2.0, AVX-512, SSE4.1, SSE4.2. Intel® Turbo Boost Max Technology 3.0 frequency: 4.8 GHz, Intel® Turbo Boost Technology 2.0 frequency: 4.6 GHz, Intel® QuickAssist Technology (QAT): 0 default devices. Maximum internal memory: 4 TB



Processor		Processor special features	
Processor manufacturer *	Intel	Intel® Transactional Synchronization Extensions	✓
Processor model *	w9-3575X	Intel® Total Memory Encryption	✓
Processor base frequency *	2.2 GHz	Intel® Control-flow Enforcement Technology (CET)	✓
Processor family *	Intel Xeon W	Intel® Platform Firmware Resilience Support	✓
Processor cores *	44	Intel VT-x with Extended Page Tables (EPT)	✓
Processor socket *	LGA 4677 (Socket E)	Intel® Active Management Technology (Intel® AMT)	✓
Processor threads	88	Intel® OS Guard	✓
Intel® UPI Speed	0 GT/s	Intel Software Guard Extensions (Intel SGX)	✗
Processor operating modes *	64-bit	Intel 64	✓
Performance cores	44	Intel Virtualization Technology (VT-x)	✓
Processor boost frequency	4.8 GHz	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Processor cache	97.5 MB	Intel Turbo Boost Max Technology 3.0	✓
Processor cache type	Smart Cache	AVX-512 Fused Multiply-Add (FMA) units	2
Processor base power	340 W	Intel® Boot Guard	✓
Maximum turbo power	408 W	Intel® Deep Learning Boost (Intel® DL Boost) on CPU	✓
Processor codename	Sapphire Rapids	Mode-based Execute Control (MBE)	✓
Processor ARK ID	240501	Intel® Optane™ DC Persistent Memory Supported	✗
Memory		Intel® One-Click Recovery	✗
Maximum internal memory supported by processor	4 TB	Intel® Remote Platform Erase (RPE)	✗
Memory types supported by processor	DDR5-SDRAM	Intel® Virtualization Technology with Redirect Protection (VT-rp)	✓
Memory clock speeds supported by processor	4800 MHz	Intel vPro® Enterprise Platform Eligibility	✓
Memory channels *	Octa-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	112		
PCI Express slots version	5.0		

Features		Processor special features	
Supported instruction sets	AMX, AVX 2.0, AVX-512, SSE4.1, SSE4.2	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		
Processor special features		Operational conditions	
Intel® Hyper Threading Technology (Intel® HT Technology)	✓	Tcase	79 °C
Intel® Turbo Boost Technology	2.0	DTS Max	100 °C
Intel® AES New Instructions (Intel® AES-NI)	✓		
Enhanced Intel SpeedStep Technology	✓	Technical details	
Intel Trusted Execution Technology	✓	Launch date	Q3'24
Intel® Speed Shift Technology	✓	Status	Launched
Intel® Turbo Boost Max Technology 3.0 frequency	4.8 GHz	Memory speed (max)	4800 MHz
Intel® Turbo Boost Technology 2.0 frequency	4.6 GHz	Package carrier	E1A
		Other features	
		Maximum internal memory	4 TB

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