



HP Intel Xeon W7-2475X processor 2.6 GHz 37.5 MB Smart Cache

Brand : HP

Product code: 6M6X1AV

Product name : Intel Xeon W7-2475X

Intel Xeon w7-2475X Processor 37.5M Cache, 2.60 GHz

HP Intel Xeon W7-2475X processor 2.6 GHz 37.5 MB Smart Cache:

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HP Intel Xeon W7-2475X. 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: 4.8 GHz, Intel® Turbo Boost Technology 2.0 frequency: 4.6 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® Control-flow Enforcement Technology (CET)	✓
Processor model *	w7-2475X	Intel® Platform Firmware Resilience Support	✓
Processor base frequency *	2.6 GHz	Intel VT-x with Extended Page Tables (EPT)	✓
Processor family *	Intel Xeon W	Intel® Active Management Technology (Intel® AMT)	✓
Processor cores *	20	Intel® OS Guard	✓
Processor socket *	LGA 4677 (Socket E)	Intel Software Guard Extensions (Intel SGX)	✗
Processor threads	40	Intel 64	✓
System bus rate	0 GT/s	Intel Virtualization Technology (VT-x)	✓
Processor operating modes *	64-bit	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Performance cores	20	Intel Turbo Boost Max Technology 3.0	✓
Processor boost frequency	4.8 GHz	AVX-512 Fused Multiply-Add (FMA) units	2
Processor cache	37.5 MB	Intel® Boot Guard	✓
Processor cache type	Smart Cache	Intel® Deep Learning Boost (Intel® DL Boost) on CPU	✓
Processor base power	225 W	Intel® Resource Director Technology (Intel® RDT)	✗
Maximum turbo power	270 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	233418	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 *	✗		
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® 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	76 °C
Commodity Classification Automated Tracking System (CCATS)	G180729	DTS Max	94 °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	E1B
Intel® Speed Shift Technology	✓	Logistics data	
Intel® Turbo Boost Max Technology 3.0 frequency	4.8 GHz	Harmonized System (HS) code	8542310001
Intel® Turbo Boost Technology 2.0 frequency	4.6 GHz	Weight & dimensions	
Intel® Transactional Synchronization Extensions	✓	Processor package size	77.5 x 56.5 mm
Intel® Total Memory Encryption	✓	Other features	
		Maximum internal memory	2 TB

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