

## Intel Xeon Platinum 8461V processor 2.2 GHz 97.5 MB

Brand : Intel

Product family: Xeon

Product code:  
PK8071305073201

Product name : Platinum  
8461V

PK8071305073201

Intel Xeon Platinum 8461V. Processor family: Intel® Xeon® Platinum, Processor socket: LGA 4677 (Socket E), Processor manufacturer: Intel. Memory channels: Octa-channel, Maximum internal memory supported by processor: 6 TB, Memory types supported by processor: DDR4-SDRAM. Market segment: Server, Use conditions: Server/Enterprise, Supported instruction sets: AMX, SSE4.2, AVX, AVX 2.0, AVX-512. Maximum Enclave Size Support for Intel® SGX: 128 GB, Intel® QuickAssist Technology (QAT): 1 default devices, Intel® Dynamic Load Balancer (DLB): 1 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 generation	Intel Xeon Scalable 4th Gen	Intel® Crypto Acceleration	✓
Processor model *	8461V	Intel® Platform Firmware Resilience Support	✓
Processor base frequency *	2.2 GHz	Maximum Enclave Size Support for Intel® SGX	128 GB
Processor family *	Intel® Xeon® Platinum	Intel VT-x with Extended Page Tables (EPT)	✓
Processor cores *	48	Intel® OS Guard	✓
Processor socket *	LGA 4677 (Socket E)	Intel Software Guard Extensions (Intel SGX)	✓
Processor threads	96	Intel 64	✓
Processor operating modes *	64-bit	Intel Virtualization Technology (VT-x)	✓
Processor boost frequency	3.7 GHz	Intel Virtualization Technology for Directed I/O (VT-d)	✓
High priority cores	16	AVX-512 Fused Multiply-Add (FMA) units	2
High priority core frequency	2.3 GHz	Intel® Boot Guard	✓
Low priority cores	32	Intel® Deep Learning Boost (Intel® DL Boost)	✓
Low priority core frequency	1.9 GHz	Intel® Speed Select technology - Performance Profile (Intel® SST-PP)	✓
Processor cache	97.5 MB	Intel® Resource Director Technology (Intel® RDT)	✓
Thermal Design Power (TDP)	300 W	Intel® Run Sure Technology	✓
Box *	✗	Mode-based Execute Control (MBE)	✓
Stepping	E5	Intel® Optane™ DC Persistent Memory Supported	✓
Processor codename	Sapphire Rapids	Intel® Speed Select Technology - Base Frequency (Intel® SST-BF)	✓
Processor ARK ID	231741	Intel® QuickAssist Software Acceleration	✓
<b>Memory</b>		Intel® On Demand Feature Activation	✓
Maximum internal memory supported by processor	6 TB	Intel® QuickAssist Technology (QAT)	1 default devices
Memory types supported by processor	DDR4-SDRAM	Intel® Dynamic Load Balancer (DLB)	1 default devices
Memory channels *	Octa-channel	Intel® Data Streaming Accelerator (DSA)	1 default devices
ECC	✓	Intel® In-memory Analytics Accelerator (IAA)	1 default devices
<b>Graphics</b>			
On-board graphics card *	✗		
Discrete graphics card *	✗		
On-board graphics card model *	Not available		
Discrete graphics card model *	Not available		
<b>Features</b>			
Execute Disable Bit	✓		
Market segment	Server		
Use conditions	Server/Enterprise		
Maximum number of PCI Express lanes	80		
PCI Express slots version	5.0		

Features		Processor special features	
Supported instruction sets	AMX, SSE4.2, AVX, AVX 2.0, AVX-512	Intel® Advanced Matrix Extensions (AMX)	✓
Scalability	1S	Operational conditions	
Export Control Classification Number (ECCN)	5A992C	Tcase	77 °C
Commodity Classification Automated Tracking System (CCATS)	G180729	DTS Max	95 °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)	✓	Memory speed (max)	4800 MHz
Intel Trusted Execution Technology	✓	Package carrier	E1A
Intel® Speed Shift Technology	✓	Logistics data	
Intel® Transactional Synchronization Extensions	✓	Harmonized System (HS) code	8542310001
Intel® Total Memory Encryption	✓	Weight & dimensions	
		Processor package size	77.5 x 56.5 mm
		Other features	
		Maximum internal memory	4 TB

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