



DELL Intel Xeon Platinum 8468 processor 2.1 GHz 105 MB Tray

Brand : DELL

Product code: 338-CHDD

Product name : Intel Xeon Platinum 8468

Intel Xeon Platinum 8468 2.1GHz Forty-eight Core Processor, 48C/96T, 16GT/s, 105M Cache, Turbo, HT (350W) DDR5-4800

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The Intel Xeon Platinum 8468 2.1GHz Forty-eight Core Processor enhances the performance and the speed of your system. Additionally, the Virtualization Technology enables migration of more environments. It supports enhanced SpeedStep technology that allows tradeoffs to be made between performance and power consumption.

Its Thermal Monitoring Technologies protect the processor package and the system from thermal failure through several thermal management features. The VT-x with Extended Page Tables (EPT) also known as Second Level Address Translation (SLAT), provides acceleration for memory intensive virtualized applications. Packed with more features, the Xeon Platinum 8468 2.1GHz Forty-eight Core Processor is the ideal choice for virtually all of your data demanding or standard enterprise infrastructure applications.

Processor		Processor special features	
Processor manufacturer *	Intel	Intel® Transactional Synchronization Extensions	✓
Processor generation	Intel Xeon Scalable 4th Gen	Intel® Total Memory Encryption	✓
Processor model *	8468	Intel® Control-flow Enforcement Technology (CET)	✓
Processor base frequency *	2.1 GHz	Intel® Crypto Acceleration	✓
Processor family *	Intel® Xeon® Platinum	Intel® Platform Firmware Resilience Support	✓
Processor cores *	48	Maximum Enclave Size Support for Intel® SGX	512 GB
Processor socket *	LGA 4677 (Socket E)	Intel VT-x with Extended Page Tables (EPT)	✓
Processor threads	96	Intel® OS Guard	✓
System bus rate	16 GT/s	Intel Software Guard Extensions (Intel SGX)	✓
Processor operating modes *	64-bit	Intel 64	✓
Processor boost frequency	3.8 GHz	Intel Virtualization Technology (VT-x)	✓
High priority cores	16	Intel Virtualization Technology for Directed I/O (VT-d)	✓
High priority core frequency	2.3 GHz	AVX-512 Fused Multiply-Add (FMA) units	2
Low priority cores	32	Intel® Boot Guard	✓
Low priority core frequency	1.9 GHz	Intel® Deep Learning Boost (Intel® DL Boost) on CPU	✓
Processor cache	105 MB	Intel® Resource Director Technology (Intel® RDT)	✓
Thermal Design Power (TDP)	350 W	Intel® Run Sure Technology	✓
Package type *	Tray	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	231735	Intel® QuickAssist Software Acceleration	✓
Memory		Intel® On Demand Feature Activation	✓
Maximum internal memory supported by processor	6 TB	Intel® Data Streaming Accelerator (DSA)	1 default devices
Memory types supported by processor	DDR4-SDRAM		
Memory channels *	Octa-channel		
ECC	✓		
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	✓		

Features		Processor special features	
Market segment	Server	Intel® Advanced Matrix Extensions (AMX)	✓
Maximum number of PCI Express lanes	80	Operational conditions	
PCI Express slots version	5.0	Tcase	79 °C
Supported instruction sets	AMX, SSE4.2, AVX, AVX 2.0, AVX-512	DTS Max	100 °C
Scalability	25	Weight & dimensions	
Processor special features		Processor package size	77.5 x 56.5 mm
Intel® Hyper Threading Technology (Intel® HT Technology)	✓	Other features	
Intel® Turbo Boost Technology	2.0	Compatibility	PowerEdge C6620 PowerEdge MX760C PowerEdge R660
Intel® AES New Instructions (Intel® AES-NI)	✓		PowerEdge R760 PowerEdge R760XA PowerEdge XE8640
Intel Trusted Execution Technology	✓		PowerEdge XE9640 PowerEdge XE9680
Intel® Speed Shift Technology	✓		

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