



DELL Intel Xeon Platinum 8470 processor 2 GHz 105 MB Tray

Brand : DELL

Product code: 338-CHCZ

Product name : Intel Xeon Platinum 8470

Intel Xeon Platinum 8470 2GHz Fifty-two Core Processor, 52C/104T, 16GT/s, 105M Cache, Turbo, HT (350W) DDR5-4800

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The Intel Xeon Platinum 8470 2GHz Fifty-two 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 8470 2GHz Fifty-two 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® Speed Shift Technology	✓
Processor generation	Intel Xeon Scalable 4th Gen	Intel® Transactional Synchronization Extensions	✓
Processor model *	8470	Intel® Total Memory Encryption	✓
Processor base frequency *	2 GHz	Intel® Control-flow Enforcement Technology (CET)	✓
Processor family *	Intel® Xeon® Platinum	Intel® Crypto Acceleration	✓
Processor cores *	52	Intel® Platform Firmware Resilience Support	✓
Processor socket *	LGA 4677 (Socket E)	Maximum Enclave Size Support for Intel® SGX	512 GB
Processor threads	104	Intel VT-x with Extended Page Tables (EPT)	✓
System bus rate	16 GT/s	Intel® OS Guard	✓
Processor operating modes *	64-bit	Intel Software Guard Extensions (Intel SGX)	✓
Processor boost frequency	3.8 GHz	Intel 64	✓
High priority cores	16	Intel Virtualization Technology (VT-x)	✓
High priority core frequency	2.2 GHz	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Low priority cores	36	AVX-512 Fused Multiply-Add (FMA) units	2
Low priority core frequency	1.8 GHz	Intel® Boot Guard	✓
Processor cache	105 MB	Intel® Deep Learning Boost (Intel® DL Boost) on CPU	✓
Thermal Design Power (TDP)	350 W	Intel® Resource Director Technology (Intel® RDT)	✓
Package type *	Tray	Intel® Run Sure Technology	✓
Stepping	E5	Mode-based Execute Control (MBE)	✓
Processor codename	Sapphire Rapids	Intel® Optane™ DC Persistent Memory Supported	✓
Processor ARK ID	231728	Intel® Speed Select Technology - Base Frequency (Intel® SST-BF)	✓
Memory		Intel® QuickAssist Software Acceleration	✓
Maximum internal memory supported by processor	6 TB	Intel® On Demand Feature Activation	✓
Memory types supported by processor	DDR4-SDRAM	Intel® Data Streaming Accelerator (DSA)	1 default devices
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	98 °C
Scalability	2S	Weight & dimensions	
Embedded options available	✓	Processor package size	77.5 x 56.5 mm
Processor special features		Other features	
Intel® Hyper Threading Technology (Intel® HT Technology)	✓	Compatibility	PowerEdge C6620 PowerEdge MX760C PowerEdge R660
Intel® Turbo Boost Technology	2.0		PowerEdge R760 PowerEdge R760XA PowerEdge XE8640
Intel® AES New Instructions (Intel® AES-NI)	✓		PowerEdge XE9640 PowerEdge XE9680
Intel Trusted Execution Technology	✓		

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