



DELL Xeon Gold 6444Y processor 3.6 GHz 45 MB Tray

Brand : DELL

Product code: 338-CLWT

Product name : Xeon Gold 6444Y

Intel® Xeon® Gold 6444Y 3.6GHz Sixteen Core Processor, 16C/32T, 16GT/s, 45M Cache, Turbo, HT (270W) DDR5-4800, Customer Install

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The Intel® Xeon® Gold 6444Y 3.6GHz Sixteen 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 Gold 6444Y 3.6GHz Sixteen 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® Total Memory Encryption	✓
Processor generation	Intel Xeon Scalable 4th Gen	Intel® Control-flow Enforcement Technology (CET)	✓
Processor model *	6444Y	Intel® Crypto Acceleration	✓
Processor base frequency *	3.6 GHz	Intel® Platform Firmware Resilience Support	✓
Processor family *	Intel® Xeon® Gold	Maximum Enclave Size Support for Intel® SGX	128 GB
Processor cores *	16	Intel VT-x with Extended Page Tables (EPT)	✓
Processor threads	32	Intel® OS Guard	✓
Intel® UPI Speed	16 GT/s	Intel Software Guard Extensions (Intel SGX)	✓
Processor operating modes *	64-bit	Intel 64	✓
Processor boost frequency	4 GHz	Intel Virtualization Technology (VT-x)	✓
High priority cores	4	Intel Virtualization Technology for Directed I/O (VT-d)	✓
High priority core frequency	3.7 GHz	AVX-512 Fused Multiply-Add (FMA) units	2
Low priority cores	12	Intel® Boot Guard	✓
Low priority core frequency	3.2 GHz	Intel® Deep Learning Boost (Intel® DL Boost) on CPU	✓
Processor cache	45 MB	Intel® Speed Select technology - Performance Profile (Intel® SST-PP)	✓
Thermal Design Power (TDP)	270 W	Intel® Resource Director Technology (Intel® RDT)	✓
Package type *	Tray	Intel® Run Sure Technology	✓
Stepping	S3	Mode-based Execute Control (MBE)	✓
Processor codename	Sapphire Rapids	Intel® Speed Select Technology - Base Frequency (Intel® SST-BF)	✓
Memory		Intel® QuickAssist Software Acceleration	✓
Maximum internal memory supported by processor	4 TB	Intel® On Demand Feature Activation	✓
Memory types supported by processor	DDR5-SDRAM	Intel® Data Streaming Accelerator (DSA)	1 default devices
Memory channels *	Octa-channel	Intel® Advanced Matrix Extensions (AMX)	✓
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	✓		
Market segment	Server		
Use conditions	Server/Enterprise		

Features		Processor special features	
Maximum number of PCI Express lanes	80	Intel® Speed Select Technology - Core Power	✓
PCI Express slots version	5.0	Intel® Speed Select Technology - Turbo Frequency	✓
Supported instruction sets	AMX, AVX, AVX 2.0, AVX-512, SSE4.2	Operational conditions	
Scalability	2S	Tcase	75 °C
Embedded options available	✗	DTS Max	100 °C
Processor special features		Technical details	
Intel® Hyper Threading Technology (Intel® HT Technology)	✓	Number of UPI links	3
Intel® Turbo Boost Technology	2.0	Package carrier	E1B
Intel® AES New Instructions (Intel® AES-NI)	✓	Servicing status	Baseline Servicing
Intel Trusted Execution Technology	✓	Other features	
Intel® Speed Shift Technology	✓	Maximum internal memory	4 TB
Intel® Transactional Synchronization Extensions	✓		

Catalog Object Cloud



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