DELL Xeon Silver 4410Y processor 2 GHz 30 MB

Brand : DELL

Product code: 338-CLWC

Product name : Xeon Silver 4410Y

Intel® Xeon® Silver 4410Y 2GHz Twelve Core Processor, 12C/24T, 16GT/s, 30M Cache, Turbo, HT (150W) DDR5-4000, Customer Install

DELL Xeon Silver 4410Y processor 2 GHz 30 MB:

The Intel Xeon® Silver 4410Y 2GHz Twelve 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 Silver 4410Y 2GHz Twelve Core Processor is the ideal choice for virtually all of your data demanding or standard enterprise infrastructure applications.

Processor	
Processor manufacturer *	Intel
Processor generation	Intel Xeon Scalable 4th Gen
Processor model *	4410Y
Processor base frequency *	2 GHz
Processor family *	Intel Xeon Silver
Processor cores *	12
Processor socket *	LGA 4677 (Socket E)
Processor threads	24
Intel® UPI Speed	16 GT/s
Processor operating modes *	64-bit
Processor boost frequency	3.9 GHz
Processor cache	30 MB
Thermal Design Power (TDP)	150 W
Stepping	S3
Processor codename	Sapphire Rapids
Processor ARK ID	232376

Memory	
Maximum internal memory supported by processor	4 TB
Memory types supported by processor	DDR5-SDRAM
Memory clock speeds supported by processor	4000 MHz
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	✔
Market segment	Server
Use conditions	Server/Enterprise
Maximum number of PCI Express lanes	80

Processor special features	
Intel® Speed Shift Technology	✔
Intel® Transactional Synchronization Extensions	✔
Intel® Total Memory Encryption	✔
Intel® Control-flow Enforcement Technology (CET)	✔
Intel® Crypto Acceleration	✔
Intel® Platform Firmware Resilience Support	✔
Maximum Enclave Size Support for Intel® SGX	64 GB
Intel VT-x with Extended Page Tables (EPT)	✔
Intel® OS Guard	✔
Intel Software Guard Extensions (Intel SGX)	✔
Intel 64	✔
Intel Virtualization Technology (VT-x)	✔
Intel Virtualization Technology for Directed I/O (VT-d)	✔
AVX-512 Fused Multiply-Add (FMA) units	2
Intel® Boot Guard	✔
Intel® Deep Learning Boost (Intel® DL Boost) on CPU	✔
Intel® Speed Select technology - Performance Profile (Intel® SST-PP)	✔
Intel® Resource Director Technology (Intel® RDT)	✔
Mode-based Execute Control (MBE)	✔
Intel® QuickAssist Software Acceleration	✔
Intel® On Demand Feature Activation	✔
Intel® Data Streaming Accelerator (DSA)	1 default devices
Intel® Advanced Matrix Extensions (AMX)	✔

Features	
PCI Express slots version	5.0
Supported instruction sets	AMX, AVX, AVX 2.0, AVX-512, SSE4.2
Scalability	2S
Embedded options available	✔

Processor special features	
Intel® Hyper Threading Technology (Intel® HT Technology)	✔
Intel® Turbo Boost Technology	2.0
Intel® AES New Instructions (Intel® AES-NI)	✔
Intel Trusted Execution Technology	✔

Operational conditions	
Tcase	78 °C
DTS Max	93 °C

Technical details	
Number of UPI links	2
Package carrier	E1B

Weight & dimensions	
Processor package size	77.5 x 56.5 mm

Other features	
Maximum internal memory	4 TB

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