DELL

DELL Intel Xeon Silver 4410T processor 2.7 GHz 26.25 MB

Brand : DELL   **Product code:** 338-CLWF

Product name : Intel Xeon Silver 4410T

Intel Xeon Silver 4410T 2.7GHz Ten Core Processor, 16GT/s, 27M Cache, Turbo, HT (150W) DDR5-4000, Customer Install

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The Intel Xeon® Silver 4410T 2.7GHz Ten 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 4410T 2.7GHz Ten 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 *	4410T	Intel® Total Memory Encryption	✔
Processor base frequency *	2.7 GHz		
Processor family *	Intel Xeon Silver	Intel® Control-flow Enforcement Technology (CET)	✔
Processor cores *	10		
Processor socket *	LGA 4677 (Socket E)	Intel® Crypto Acceleration	✔
Processor threads	20	Intel® Platform Firmware Resilience Support	✔
System bus rate	16 GT/s		
Processor operating modes *	64-bit	Maximum Enclave Size Support for Intel® SGX	64 GB
Processor boost frequency	4 GHz	Intel VT-x with Extended Page Tables (EPT)	✔
Processor cache	26.25 MB		
Thermal Design Power (TDP)	150 W	Intel® OS Guard	✔
Box *	✘	Intel Software Guard Extensions (Intel SGX)	✔
Stepping	S3		
Processor codename	Sapphire Rapids	Intel 64	✔
Processor ARK ID	232388	Intel Virtualization Technology (VT-x)	✔
Memory			
Maximum internal memory supported by processor	4 TB	Intel Virtualization Technology for Directed I/O (VT-d)	✔
Memory types supported by processor	DDR5-SDRAM	AVX-512 Fused Multiply-Add (FMA) units	2
Memory clock speeds supported by processor	4000 MHz	Intel® Boot Guard	✔
Memory channels *	Octa-channel	Intel® Deep Learning Boost (Intel® DL Boost) on CPU	✔
ECC	✔	Intel® Speed Select technology - Performance Profile (Intel® SST-PP)	✔
Graphics		Intel® Resource Director Technology (Intel® RDT)	✔
On-board graphics card *	✘		
Discrete graphics card *	✘	Mode-based Execute Control (MBE)	✔
On-board graphics card model *	Not available	Intel® QuickAssist Software Acceleration	✔
Discrete graphics card model *	Not available	Intel® On Demand Feature Activation	✔
Features		Intel® Data Streaming Accelerator (DSA)	1 default devices
Execute Disable Bit	✔		
Market segment	Server	Intel® Advanced Matrix Extensions (AMX)	✔
Use conditions	Industrial Commercial Temp, Server/Enterprise		

Features

Maximum number of PCI Express lanes	80
PCI Express slots version	5.0
Supported instruction sets	AMX, SSE4.2, AVX, AVX 2.0, AVX-512
Scalability	2S
Embedded options available	✔
Export Control Classification Number (ECCN)	5A992C
Commodity Classification Automated Tracking System (CCATS)	G180729

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	84 °C
DTS Max	100 °C

Technical details

Launch date	Q1'23
Status	Launched
Memory speed (max)	4000 MHz
Number of UPI links	2
Package carrier	E1B

Logistics data

Harmonized System (HS) code	8542310001

Weight & dimensions

Processor package size	77.5 x 56.5 mm

Other features

Maximum internal memory	4 TB

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