DELL

DELL Xeon Silver 4410Y suoritin 2 GHz 30 MB

Tuotemerkki : DELL

Tuotekoodi: 338-CLWC

Tuotteen nimi : Xeon Silver 4410Y

DELL Xeon Silver 4410Y. Suoritinperhe: Intel® Xeon Silver, Prosessorin kanta: LGA 4677 (Socket E), Suoritinvalmistaja: Intel. Muistikanavat: Octa-kanava, Prosessorin tukema suurin sisäinen muisti: 4 TB, Prosessorin tukemat muistityypit: DDR5-SDRAM. Markkinasegmentti: Palvelin, Käyttöolosuhteet: Server/Enterprise, Tuetut ohjepaketit: AMX, AVX, AVX 2.0, AVX-512, SSE4.2. Intel® SGX:n tuettu enklaavin enimmäiskoko: 64 GB, Intel® Data Streaming Accelerator (DSA): 1 default devices. Prosessorin pakkauskoko: 77.5 x 56.5 mm

intel® XEON® SILVER

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
PCI Express slots version	5.0
Supported instruction sets	AMX, AVX, AVX 2.0, AVX-512, SSE4.2

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)	✔

Operational conditions

Tcase	78 °C
DTS Max	93 °C

Features

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	✔

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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