



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

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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 special features | |
|--|-----------------------------|--|-------------------|
| Processor manufacturer * | Intel | Intel® Speed Shift Technology | ✓ |
| Processor generation | Intel Xeon Scalable 4th Gen | Intel® Transactional Synchronization Extensions | ✓ |
| Processor model * | 4410Y | Intel® Total Memory Encryption | ✓ |
| Processor base frequency * | 2 GHz | Intel® Control-flow Enforcement Technology (CET) | ✓ |
| Processor family * | Intel Xeon Silver | Intel® Crypto Acceleration | ✓ |
| Processor cores * | 12 | Intel® Platform Firmware Resilience Support | ✓ |
| Processor socket * | LGA 4677 (Socket E) | Maximum Enclave Size Support for Intel® SGX | 64 GB |
| Processor threads | 24 | Intel VT-x with Extended Page Tables (EPT) | ✓ |
| Intel® UPI Speed | 16 GT/s | Intel® OS Guard | ✓ |
| Processor operating modes * | 64-bit | Intel Software Guard Extensions (Intel SGX) | ✓ |
| Processor boost frequency | 3.9 GHz | Intel 64 | ✓ |
| Processor cache | 30 MB | Intel Virtualization Technology (VT-x) | ✓ |
| Thermal Design Power (TDP) | 150 W | Intel Virtualization Technology for Directed I/O (VT-d) | ✓ |
| Stepping | S3 | AVX-512 Fused Multiply-Add (FMA) units | 2 |
| Processor codename | Sapphire Rapids | Intel® Boot Guard | ✓ |
| Processor ARK ID | 232376 | Intel® Deep Learning Boost (Intel® DL Boost) on CPU | ✓ |
| Memory | | Intel® Speed Select technology - Performance Profile (Intel® SST-PP) | ✓ |
| Maximum internal memory supported by processor | 4 TB | Intel® Resource Director Technology (Intel® RDT) | ✓ |
| Memory types supported by processor | DDR5-SDRAM | Mode-based Execute Control (MBE) | ✓ |
| Memory clock speeds supported by processor | 4000 MHz | Intel® QuickAssist Software Acceleration | ✓ |
| Memory channels * | Octa-channel | Intel® On Demand Feature Activation | ✓ |
| ECC | ✓ | Intel® Data Streaming Accelerator (DSA) | 1 default devices |
| Graphics | | Intel® Advanced Matrix Extensions (AMX) | ✓ |
| 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 | | |

| Features | | Operational conditions | |
|--|------------------------------------|-------------------------|----------------|
| PCI Express slots version | 5.0 | Tcase | 78 °C |
| Supported instruction sets | AMX, AVX, AVX 2.0, AVX-512, SSE4.2 | DTS Max | 93 °C |
| Scalability | 2S | Technical details | |
| Embedded options available | ✓ | Number of UPI links | 2 |
| Processor special features | | Package carrier | E1B |
| Intel® Hyper Threading Technology (Intel® HT Technology) | ✓ | Weight & dimensions | |
| Intel® Turbo Boost Technology | 2.0 | Processor package size | 77.5 x 56.5 mm |
| Intel® AES New Instructions (Intel® AES-NI) | ✓ | Other features | |
| Intel Trusted Execution Technology | ✓ | Maximum internal memory | 4 TB |



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