



## Fujitsu Intel Xeon Gold 5415+ processor 2.9 GHz 22.5 MB



Brand : Fujitsu

Product code: PY-CP65XT

Product name : Intel Xeon Gold 5415+



Intel Xeon Gold 5418Y 24C 2.0GHz 185W

Fujitsu Intel Xeon Gold 5415+. Processor family: Intel® Xeon® Gold, Processor socket: LGA 4677 (Socket E), Processor manufacturer: Intel. Memory channels: Octa-channel, Maximum internal memory supported by processor: 6 TB, Memory types supported by processor: DDR5-SDRAM. Market segment: Server, Use conditions: Server/Enterprise, Supported instruction sets: AMX, SSE4.2, AVX, AVX 2.0, AVX-512. Maximum Enclave Size Support for Intel® SGX: 128 GB, Intel® QuickAssist Technology (QAT): 1 default devices, Intel® Dynamic Load Balancer (DLB): 1 default devices. Package type: Retail box

| Processor                                      |                                    | Processor special features                                      |                   |
|------------------------------------------------|------------------------------------|-----------------------------------------------------------------|-------------------|
| Processor manufacturer *                       | Intel                              | Intel® Platform Firmware Resilience Support                     | ✓                 |
| Processor generation                           | Intel Xeon Scalable 4th Gen        | Maximum Enclave Size Support for Intel® SGX                     | 128 GB            |
| Processor model *                              | 5415+                              | Intel VT-x with Extended Page Tables (EPT)                      | ✓                 |
| Processor base frequency *                     | 2.9 GHz                            | Intel® OS Guard                                                 | ✓                 |
| Processor family *                             | Intel® Xeon® Gold                  | Intel Software Guard Extensions (Intel SGX)                     | ✓                 |
| Processor cores *                              | 8                                  | Intel 64                                                        | ✓                 |
| Processor socket *                             | LGA 4677 (Socket E)                | Intel Virtualization Technology (VT-x)                          | ✓                 |
| Processor threads                              | 16                                 | Intel Virtualization Technology for Directed I/O (VT-d)         | ✓                 |
| System bus rate                                | 16 GT/s                            | AVX-512 Fused Multiply-Add (FMA) units                          | 2                 |
| Processor boost frequency                      | 4.1 GHz                            | Intel® Boot Guard                                               | ✓                 |
| High priority cores                            | 2                                  | Intel® Deep Learning Boost (Intel® DL Boost)                    | ✓                 |
| High priority core frequency                   | 3.1 GHz                            | Intel® Resource Director Technology (Intel® RDT)                | ✓                 |
| Low priority cores                             | 6                                  | Intel® Run Sure Technology                                      | ✓                 |
| Processor cache                                | 22.5 MB                            | Mode-based Execute Control (MBE)                                | ✓                 |
| Thermal Design Power (TDP)                     | 150 W                              | Intel® Optane™ DC Persistent Memory Supported                   | ✓                 |
| Stepping                                       | S3                                 | Intel® Speed Select Technology - Base Frequency (Intel® SST-BF) | ✓                 |
| Processor codename                             | Sapphire Rapids                    | Intel® QuickAssist Software Acceleration                        | ✓                 |
| Processor ARK ID                               | 232373                             | Intel® On Demand Feature Activation                             | ✓                 |
| Memory                                         |                                    | Intel® QuickAssist Technology (QAT)                             | 1 default devices |
| Maximum internal memory supported by processor | 6 TB                               | Intel® Dynamic Load Balancer (DLB)                              | 1 default devices |
| Memory types supported by processor            | DDR5-SDRAM                         | Intel® Data Streaming Accelerator (DSA)                         | 1 default devices |
| Memory channels *                              | Octa-channel                       | Intel® In-memory Analytics Accelerator (IAA)                    | 1 default devices |
| ECC                                            | ✓                                  | Intel® Advanced Matrix Extensions (AMX)                         | ✓                 |
| Graphics                                       |                                    | Operational conditions                                          |                   |
| On-board graphics card *                       | ✗                                  | Tcase                                                           | 78 °C             |
| Discrete graphics card *                       | ✗                                  | DTS Max                                                         | 99 °C             |
| On-board graphics card model *                 | Not available                      | Technical details                                               |                   |
| Discrete graphics card model *                 | Not available                      | Launch date                                                     | Q1'23             |
| Features                                       |                                    | Status                                                          | Launched          |
| 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, SSE4.2, AVX, AVX 2.0, AVX-512 |                                                                 |                   |
| Scalability                                    | 2S                                 |                                                                 |                   |
| Embedded options available                     | ✓                                  |                                                                 |                   |

| Processor special features                               |     | Technical details       |                |
|----------------------------------------------------------|-----|-------------------------|----------------|
| Intel® Hyper Threading Technology (Intel® HT Technology) | ✓   | Supported memory types  | DDR5-SDRAM     |
| Intel® Turbo Boost Technology                            | 2.0 | Memory speed (max)      | 4400 MHz       |
| Intel® AES New Instructions (Intel® AES-NI)              | ✓   | Number of UPI links     | 3              |
| Intel Trusted Execution Technology                       | ✓   | Package carrier         | E1B            |
| Intel® Speed Shift Technology                            | ✓   | Packaging data          |                |
| Intel® Transactional Synchronization Extensions          | ✓   | Package type            | Retail box     |
| Intel® Total Memory Encryption                           | ✓   | Weight & dimensions     |                |
| Intel® Control-flow Enforcement Technology (CET)         | ✓   | Processor package size  | 77.5 x 56.5 mm |
| Intel® Crypto Acceleration                               | ✓   | Other features          |                |
|                                                          |     | Maximum internal memory | 4 TB           |



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