



## Lenovo 4XG7A14811 processor 2.2 GHz 14 MB Smart Cache

Brand : Lenovo

Product code: 4XG7A14811

Product name : 4XG7A14811

Intel Xeon Silver 4210 Processor Option Kit for Lenovo ThinkSystem ST550  
Lenovo 4XG7A14811. Processor family: Intel Xeon Silver, Processor socket: LGA 3647 (Socket P), Processor lithography: 14 nm. Memory channels: Hexa-channel, Maximum internal memory supported by processor: 1 TB, Memory types supported by processor: DDR4-SDRAM. Market segment: Server, Supported instruction sets: AVX-512, Scalability: 2S. Processor package size: 76 x 56.5 mm. Compatibility: ThinkSystem ST550



| Processor                                      |                                      | Features   |                   |
|--|--------------------------------------|--|-------------------|
| Processor manufacturer *                       | Intel                                | PCI Express slots version                                | 3.0               |
| Processor generation                           | 2nd Generation Intel® Xeon® Scalable | Supported instruction sets                               | AVX-512           |
| Processor model *                              | 4210                                 | Scalability  | 2S                |
| Processor base frequency *                     | 2.2 GHz                              | Embedded options available                               | ✓                 |
| Processor family *                             | Intel Xeon Silver                    | <b>Processor special features</b>                        |                   |
| Processor cores *                              | 10                                   | Intel® Hyper Threading Technology (Intel® HT Technology) | ✓                 |
| Processor socket *                             | LGA 3647 (Socket P)                  | Intel® Turbo Boost Technology                            | 2.0               |
| Component for                                  | Server/workstation                   | Intel® AES New Instructions (Intel® AES-NI)              | ✓                 |
| Processor lithography *                        | 14 nm                                | Enhanced Intel SpeedStep Technology                      | ✓                 |
| Processor series                               | Intel Xeon Silver 4000 Series        | Intel Trusted Execution Technology                       | ✓                 |
| Processor threads                              | 20                                   | Intel® Speed Shift Technology                            | ✓                 |
| Processor operating modes *                    | 64-bit                               | Intel VT-x with Extended Page Tables (EPT)               | ✓                 |
| Processor boost frequency                      | 3.2 GHz                              | Intel TSX-NI   | ✓                 |
| Processor cache                                | 14 MB                                | Intel 64   | ✓                 |
| Processor cache type                           | Smart Cache                          | Intel Virtualization Technology (VT-x)                   | ✓                 |
| Thermal Design Power (TDP)                     | 85 W                                 | Intel Virtualization Technology for Directed I/O (VT-d)  | ✓                 |
| Bus type                                       | UPI                                  | Intel Turbo Boost Max Technology 3.0                     | ✓                 |
| Processor codename                             | Cascade Lake                         | Intel® vPro™ Platform Eligibility                        | ✓                 |
| <b>Memory</b>                                  |                                      | <b>Operational conditions</b>                            |                   |
| Maximum internal memory supported by processor | 1 TB                                 | Tcase  | 78 °C             |
| Memory types supported by processor            | DDR4-SDRAM                           | <b>Logistics data</b>                                    |                   |
| Memory clock speeds supported by processor     | 2400 MHz                             | Harmonized System (HS) code                              | 85423119          |
| Memory channels *                              | Hexa-channel                         | <b>Weight &amp; dimensions</b>                           |                   |
| ECC  | ✓                                    | Processor package size                                   | 76 x 56.5 mm      |
| <b>Graphics</b>                                |                                      | <b>Other features</b>                                    |                   |
| On-board graphics card *                       | ✗                                    | Compatibility  | ThinkSystem ST550 |
| Discrete graphics card *                       | ✗                                    |  |                   |
| On-board graphics card model *                 | Not available                        |  |                   |
| Discrete graphics card model *                 | Not available                        |  |                   |
| <b>Features</b>                                |                                      |  |                   |
| Execute Disable Bit                            | ✓                                    |  |                   |
| Market segment                                 | Server                               |  |                   |
| Maximum number of PCI Express lanes            | 48                                   |  |                   |



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