



## Lenovo Intel Xeon Silver 4210R processor 2.4 GHz 13.75 MB

**Brand :** Lenovo

**Product code:** 4XG7A37083

**Product name :** Intel Xeon Silver 4210R

ThinkSystem SN550 Intel Xeon Silver 4210R 10C 100W 2.4GHz Processor Option Kit  
Lenovo Intel Xeon Silver 4210R. 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, AVX 2.0, AVX-512, SSE4.2, Scalability: 2S. Processor package size: 76.0 x 56.5 mm



| Processor                                      |                                      | Processor special features                                           |                               |
|------------------------------------------------|--------------------------------------|----------------------------------------------------------------------|-------------------------------|
| Processor manufacturer *                       | Intel                                | Intel® Hyper Threading Technology (Intel® HT Technology)             | ✓                             |
| Processor generation                           | 2nd Generation Intel® Xeon® Scalable | Intel® Turbo Boost Technology                                        | 2.0                           |
| Processor model *                              | 4210R                                | Intel® AES New Instructions (Intel® AES-NI)                          | ✓                             |
| Processor base frequency *                     | 2.4 GHz                              | Enhanced Intel SpeedStep Technology                                  | ✓                             |
| Processor family *                             | Intel Xeon Silver                    | Intel Trusted Execution Technology                                   | ✓                             |
| Processor cores *                              | 10                                   | Intel® Speed Shift Technology                                        | ✓                             |
| Processor socket *                             | LGA 3647 (Socket P)                  | Intel VT-x with Extended Page Tables (EPT)                           | ✓                             |
| Component for                                  | Server/workstation                   | Intel 64                                                             | ✓                             |
| Processor lithography *                        | 14 nm                                | Intel Virtualization Technology (VT-x)                               | ✓                             |
| Processor threads                              | 20                                   | Intel Virtualization Technology for Directed I/O (VT-d)              | ✓                             |
| Processor operating modes *                    | 64-bit                               | Intel Turbo Boost Max Technology 3.0                                 | ✗                             |
| Processor boost frequency                      | 3.2 GHz                              | AVX-512 Fused Multiply-Add (FMA) units                               | 1                             |
| Processor cache                                | 13.75 MB                             | Intel® Deep Learning Boost (Intel® DL Boost) on CPU                  | ✓                             |
| Thermal Design Power (TDP)                     | 100 W                                | Intel® Speed Select technology - Performance Profile (Intel® SST-PP) | ✗                             |
| Processor codename                             | Cascade Lake                         | Intel® Volume Management Device (VMD)                                | ✓                             |
| Processor ARK ID                               | 197098                               | Intel® Optane™ DC Persistent Memory Supported                        | ✗                             |
| Memory                                         |                                      | Intel® vPro™ Platform Eligibility                                    | ✓                             |
| Maximum internal memory supported by processor | 1 TB                                 | Intel® Speed Select Technology - Base Frequency (Intel® SST-BF)      | ✗                             |
| Memory types supported by processor            | DDR4-SDRAM                           | Operational conditions                                               |                               |
| Memory clock speeds supported by processor     | 2400 MHz                             | Tcase                                                                | 84 °C                         |
| Memory channels *                              | Hexa-channel                         | Logistics data                                                       |                               |
| ECC                                            | ✓                                    | Harmonized System (HS) code                                          | 85423119                      |
| Graphics                                       |                                      | Weight & dimensions                                                  |                               |
| On-board graphics card *                       | ✗                                    | Processor package size                                               | 76.0 x 56.5 mm                |
| Discrete graphics card *                       | ✗                                    | Features                                                             |                               |
| On-board graphics card model *                 | Not available                        | Execute Disable Bit                                                  | ✓                             |
| Discrete graphics card model *                 | Not available                        | Market segment                                                       | Server                        |
| Features                                       |                                      | Maximum number of PCI Express lanes                                  | 48                            |
| Execute Disable Bit                            | ✓                                    | PCI Express slots version                                            | 3.0                           |
| Market segment                                 | Server                               | Supported instruction sets                                           | AVX, AVX 2.0, AVX-512, SSE4.2 |
| Maximum number of PCI Express lanes            | 48                                   | Scalability                                                          | 2S                            |
| PCI Express slots version                      | 3.0                                  |                                                                      |                               |
| Supported instruction sets                     | AVX, AVX 2.0, AVX-512, SSE4.2        |                                                                      |                               |
| Scalability                                    | 2S                                   |                                                                      |                               |

**Features**

|                            |     |
|----------------------------|-----|
| Embedded options available | ✓   |
| PCI Express CEM revision   | 3.0 |

## Catalog Object Cloud



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