



Intel® Xeon® Silver 4214R Processor

16.5M Cache, 2.40 GHz

Spec Code

SRG1W

Ordering Code

CD8069504343701

| Intel® Xeon® Silver 4214R Processor (16.5M Cache, 2.40 GHz) | |
|---|---|
| Essentials | |
| Product Collection | 2nd Generation Intel® Xeon® Scalable Processors |
| Code Name | Products formerly Cascade Lake |
| Vertical Segment | Server |
| Processor Number | 4214R |
| Status | Launched |
| Launch Date | Q1'20 |
| Lithography | 14 nm |
| Recommended Customer Price | \$694.00 - \$705.00 |
| Performance | |
| # of Cores | 12 |
| # of Threads | 24 |
| Processor Base Frequency | 2.40 GHz |
| Max Turbo Frequency | 3.50 GHz |
| Cache | 16.5 MB |
| # of UPI Links | 2 |
| TDP | 100 W |
| Supplemental Information | |
| Embedded Options Available | Yes |
| Memory Specifications | |
| Max Memory Size (dependent on memory type) | 1 TB |
| Memory Types | DDR4-2400 |
| Maximum Memory Speed | 2400 MHz |
| Max # of Memory Channels | 6 |
| ECC Memory Supported ‡ | Yes |
| Intel® Optane™ DC Persistent Memory Supported | No |
| Expansion Options | |
| Scalability | 2S |
| PCI Express Revision | 3 |
| Max # of PCI Express Lanes | 48 |
| Package Specifications | |
| Sockets Supported | FCLGA3647 |

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| TCASE | 79°C |
| Package Size | 76.0mm x 56.5mm |
| Advanced Technologies | |
| Intel® Deep Learning Boost (Intel® DL Boost) | Yes |
| Intel® Speed Select Technology - Performance Profile | No |
| Intel® Speed Select Technology - Base Frequency | No |
| Intel® Resource Director Technology (Intel® RDT) | Yes |
| Intel® Speed Shift Technology | Yes |
| Intel® Turbo Boost Max Technology 3.0 ‡ | No |
| Intel® Turbo Boost Technology ‡ | 2 |
| Intel® vPro™ Platform Eligibility ‡ | Yes |
| Intel® Hyper-Threading Technology ‡ | Yes |
| Intel® Virtualization Technology (VT-x) ‡ | Yes |
| Intel® Virtualization Technology for Directed I/O (VT-d) ‡ | Yes |
| Intel® VT-x with Extended Page Tables (EPT) ‡ | Yes |
| Intel® Transactional Synchronization Extensions | Yes |
| Intel® 64 ‡ | Yes |
| Instruction Set Extensions | Intel® SSE4.2, Intel® AVX, Intel® AVX2, Intel® AVX-512 |
| # of AVX-512 FMA Units | 1 |
| Enhanced Intel SpeedStep® Technology | Yes |
| Intel® Volume Management Device (VMD) | Yes |
| Security & Reliability | |
| Intel® AES New Instructions | Yes |
| Intel® Trusted Execution Technology ‡ | Yes |
| Execute Disable Bit ‡ | Yes |
| Intel® Run Sure Technology | No |
| Mode-based Execute Control (MBE) | Yes |