Intel® Xeon® Silver 4210R Processor
13.75M Cache, 2.40 GHz

Intel® Xeon® Silver 4210R Processor
13.75M Cache, 2.40 GHz

Add To Compare

Specifications

Download Specifications ↓

Essentials

Product Collection	2nd Gen Intel® Xeon® Scalable Processors
Code Name	Products formerly Cascade Lake
Vertical Segment	Server
Processor Number	4210R
Lithography	14 nm
Recommended Customer Price	$563.00-$574.00

CPU Specifications

Total Cores	10
Total Threads	20
Max Turbo Frequency	3.20 GHz
Processor Base Frequency	2.40 GHz
Cache	13.75 MB
Max # of UPI Links	2
TDP	100 W

Supplemental Information

Marketing Status	Launched
Launch Date	Q1'20
Servicing Status	ESU Notification Issued
End of Servicing Updates Date	Monday, June 30, 2025
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
Intel® Optane™ Persistent Memory Supported	No
ECC Memory Supported ‡	Yes

Expansion Options

Scalability	2S
PCI Express Revision	3.0
Max # of PCI Express Lanes	48

Package Specifications

Sockets Supported	FCLGA3647
T_{CASE}	84°C
Package Size	76.0mm x 56.5mm

Advanced Technologies

Intel® Volume Management Device (VMD)	Yes
Intel® Deep Learning Boost (Intel® DL Boost) on CPU	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

Feedback

Intel® Turbo Boost Technology ‡	2.0
Intel® Hyper-Threading Technology ‡	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

Security & Reliability

Intel vPro® Eligibility ‡	Intel vPro® Platform
Intel® AES New Instructions	Yes
Intel® Trusted Execution Technology ‡	Yes
Execute Disable Bit ‡	Yes
Intel® Run Sure Technology	No
Mode-based Execute Control (MBEC)	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

All information provided is subject to change at any time, without notice. Intel may make changes to manufacturing life cycle, specifications, and product descriptions at any time, without notice. The information herein is provided "as-is" and Intel does not make any representations or warranties whatsoever regarding accuracy of the information, nor on the product features, availability, functionality, or compatibility of the products listed. Please contact system vendor for more information on specific products or systems.

Intel classifications are for general, educational and planning purposes only and consist of Export Control Classification Numbers (ECCN) and Harmonized Tariff Schedule (HTS) numbers. Any use made of Intel classifications are without recourse to Intel and shall not be construed as a representation or warranty regarding the proper ECCN or HTS. Your company as an importer and/or exporter is responsible for determining the correct classification of your transaction.

Refer to Datasheet for formal definitions of product properties and features.

‡ This feature may not be available on all computing systems. Please check with the system vendor to determine if your system delivers this feature, or reference the system specifications (motherboard, processor, chipset, power supply, HDD, graphics controller, memory, BIOS, drivers, virtual machine monitor-VMM, platform software, and/or operating system) for feature compatibility. Functionality, performance, and other benefits of this feature may vary depending on system configuration.

Intel processor numbers are not a measure of performance. Processor numbers differentiate features within each processor family, not across different processor families. See http://www.intel.com/content/www/us/en/processors/processor-numbers.html for details.

Recommended Customer Price (RCP) is pricing guidance only for Intel products. Prices are for direct Intel customers, usually represent 1,000-unit purchase quantities, and are subject to change without notice. Prices may vary for other package types and shipment quantities. In bulk, price represents individual unit. Listing of RCP does not constitute a formal pricing offer from Intel.

System and Maximum TDP is based on worst case scenarios. Actual TDP may be lower if not all I/Os for chipsets are used.

“Announced” SKUs are not yet available. Please refer to the Launch Date for market availability.

Max Turbo Frequency refers to the maximum single-core processor frequency that can be achieved with Intel® Turbo Boost Technology. See https://www.intel.com/content/www/us/en/gaming/resources/turbo-boost.html for more information and applicability of this technology.

Feedback

See http://www.intel.com/content/www/us/en/architecture-and-technology/hyper-threading/hyper-threading-technology.html?wapkw=hyper+threading for more information including details on which processors support Intel® HT Technology.

Processors that support 64-bit computing on Intel® architecture require an Intel 64 architecture-enabled BIOS.

Some products can support AES New Instructions with a Processor Configuration update, in particular, i7-2630QM/i7-2635QM, i7-2670QM/i7-2675QM, i5-2430M/i5-2435M, i5-2410M/i5-2415M. Please contact OEM for the BIOS that includes the latest Processor configuration update.

Company Overview

Contact Intel

Newsroom

Investors

Careers

Corporate Responsibility

Diversity & Inclusion

Public Policy

Feedback

© Intel Corporation

Terms of Use

*Trademarks

Cookies

Privacy

Supply Chain Transparency

Site Map

Recycling

Your Privacy Choices

Notice at Collection

Intel technologies may require enabled hardware, software or service activation. // No product or component can be absolutely secure. // Your costs and results may vary. // Performance varies by use, configuration and other factors. // See our complete legal Notices and Disclaimers . // Intel is committed to respecting human rights and avoiding causing or contributing to adverse impacts on human rights. See Intel's Global Human Rights Principles . Intel's products and software are intended only to be used in applications that do not cause or contribute to adverse impacts on human rights.



Feedback

Intel® Xeon® Silver 4210R Processor
13.75M Cache, 2.40 GHz

Intel® Xeon® Silver 4210R Processor
13.75M Cache, 2.40 GHz

Add To Compare

Specifications

Register
or Sign in
with your CNDA account
to access pre-release products and technical content.

Ordering and Spec Information

Intel® Xeon® Silver 4210R Processor (13.75M Cache, 2.40 GHz) FC-LGA14B, Tray

Ordering Code	CD8069504344500
Spec Code	SRG24
Shipping Media	TRAY
Stepping	R1
MDDS Content IDs	707158
PCN Content IDs	798714
Recommended Customer Price	$563.00

Boxed Intel® Xeon® Silver 4210R Processor (13.75M Cache, 2.40 GHz) FC-LGA14B

Ordering Code	BX806954210R
Spec Code	SRG24
Shipping Media	BOX

Feedback

Stepping	R1
MDDS Content IDs	708690
PCN Content IDs	798714 , 798811
Recommended Customer Price	$574.00

Trade Compliance Information

ECCN	5A992.C
CCATS	G077159
US HTS	8542310050

Feedback

© Intel Corporation

Terms of Use

*Trademarks

Cookies

Privacy

Supply Chain Transparency

Site Map

Recycling

Your Privacy Choices

Notice at Collection

Intel technologies may require enabled hardware, software or service activation. // No product or component can be absolutely secure. // Your costs and results may vary. // Performance varies by use, configuration and other factors. // See our complete legal Notices and Disclaimers

. // Intel is committed to respecting human rights and avoiding causing or contributing to adverse impacts on human rights. See Intel's Global Human Rights Principles

. Intel's products and software are intended only to be used in applications that do not cause or contribute to adverse impacts on human rights.



Feedback