Intel Xeon 4210R processor 2.4 GHz 13.75 MB

Brand : Intel   **Product family:** Xeon   **Product code:**
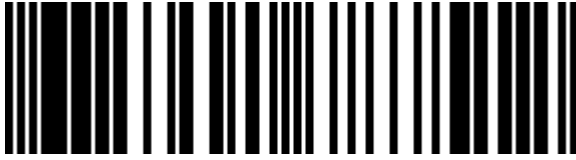CD8069504344500

Product name : 4210R

Intel® Xeon® Silver 4210R Processor (13.75M Cache, 2.40 GHz)
Intel Xeon 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: 1.02 TB, Memory types supported by processor: DDR4-SDRAM. Market segment: Server, Supported instruction sets: SSE4.2, AVX, AVX 2.0, AVX-512, Scalability: 2S. Package width: 43 mm, Package depth: 137 mm, Package height: 112 mm. Processor package size: 76mm x 56.5mm

Processor

Processor manufacturer *	Intel
Processor generation	2nd Generation Intel® Xeon® Scalable
Processor model *	4210R
Processor base frequency *	2.4 GHz
Processor family *	Intel Xeon Silver
Processor cores *	10
Processor socket *	LGA 3647 (Socket P)
Component for	Server/workstation
Processor lithography *	14 nm
Processor threads	20
Processor operating modes *	64-bit
Processor boost frequency	3.2 GHz
Processor cache	13.75 MB
Thermal Design Power (TDP)	100 W
Box *	✘
Cooler included *	✘
Processor codename	Cascade Lake
Processor ARK ID	197098

Memory

Maximum internal memory supported by processor	1.02 TB
Memory types supported by processor	DDR4-SDRAM
Memory clock speeds supported by processor	2400 MHz
Memory channels *	Hexa-channel
ECC	✔

Graphics

On-board graphics card *	✘
Discrete graphics card *	✘
On-board graphics card model *	Not available
Discrete graphics card model *	Not available

Features

Execute Disable Bit	✔
Market segment	Server
Maximum number of PCI Express lanes	48
PCI Express slots version	3.0
Supported instruction sets	SSE4.2, AVX, AVX 2.0, AVX-512

Processor special features

Intel® Speed Shift Technology	✔
Intel® Transactional Synchronization Extensions	✔
Intel VT-x with Extended Page Tables (EPT)	✔
Intel 64	✔
Intel Virtualization Technology (VT-x)	✔
Intel Virtualization Technology for Directed I/O (VT-d)	✔
Intel Turbo Boost Max Technology 3.0	✘
AVX-512 Fused Multiply-Add (FMA) units	1
Intel® Deep Learning Boost (Intel® DL Boost)	✔
Intel® Speed Select technology - Performance Profile (Intel® SST-PP)	✘
Intel® Resource Director Technology (Intel® RDT)	✔
Intel® Volume Management Device (VMD)	✔
Intel® Run Sure Technology	✘
Mode-based Execute Control (MBE)	✔
Intel® Optane™ DC Persistent Memory Supported	✘
Intel® vPro™ Platform Eligibility	✔
Intel Speed Select Technology (SST)	✘
Intel® Speed Select Technology - Base Frequency (Intel® SST-BF)	✘
Intel® Optane™ DC Persistent Memory technology	✘

Operational conditions

Tcase	84 °C

Technical details

Launch date	Q1'20
Product type	Processor
Status	Launched
Supported memory types	DDR4-SDRAM
Memory speed (max)	2400 MHz
Number of UPI links	2
Servicing status	Baseline Servicing

Features

Scalability	2S
Embedded options available	✓
PCI Express CEM revision	3.0
Export Control Classification Number (ECCN)	5A992C
Commodity Classification Automated Tracking System (CCATS)	G077159

Processor special features

Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Intel® Turbo Boost Technology	2.0
Intel® AES New Instructions (Intel® AES-NI)	✓
Enhanced Intel SpeedStep Technology	✓
Intel Trusted Execution Technology	✓

Logistics data

Harmonized System (HS) code	85423119

Packaging data

Package width	43 mm
Package depth	137 mm
Package height	112 mm
Package type	Retail box

Weight & dimensions

Processor package size	76mm x 56.5mm

Other features

Maximum internal memory	1 TB

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