



Lenovo Intel Xeon Silver 4210R processor 2.4 GHz 13.75 MB

Brand : Lenovo

Product code: 4XG7A37995

Product name : Intel Xeon Silver 4210R

Intel Xeon Silver 4210R Processor (13.75MB Cache, up to 3.2 GHz)

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: 1.02 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)	✗
Box *	✗	Intel® Volume Management Device (VMD)	✓
Cooler included *	✗	Intel® Optane™ DC Persistent Memory Supported	✗
Processor codename	Cascade Lake	Intel® vPro™ Platform Eligibility	✓
Processor ARK ID	197098	Intel® Speed Select Technology - Base Frequency (Intel® SST-BF)	✗
Memory		Operational conditions	
Maximum internal memory supported by processor	1.02 TB	Tcase	84 °C
Memory types supported by processor	DDR4-SDRAM	Logistics data	
Memory clock speeds supported by processor	2400 MHz	Harmonized System (HS) code	85423119
Memory channels *	Hexa-channel	Weight & dimensions	
ECC	✓	Processor package size	76.0 x 56.5 mm
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		

Features

Supported instruction sets	AVX, AVX 2.0, AVX-512, SSE4.2
Scalability	25
Embedded options available	✓
PCI Express CEM revision	3.0



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