

Intel Xeon 4210 processor 2.2 GHz 13.75 MB

Brand : Intel

Product family: Xeon

Product code:
CD8069503956302

Product name : 4210

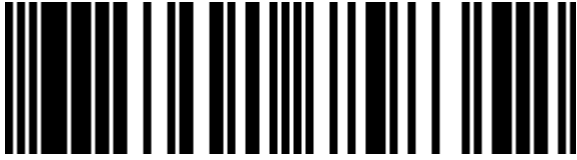
Intel Xeon Silver 4210 Processor (14MB Cache, up to 3.2 GHz)

Intel Xeon 4210. 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 type: Retail box. Processor package size: 76mm x 56.5mm



Processor		Processor special features	
Processor manufacturer *	Intel	Intel Trusted Execution Technology	✓
Processor generation	2nd Generation Intel® Xeon® Scalable	Intel® Speed Shift Technology	✓
Processor model *	4210	Intel® Transactional Synchronization Extensions	✓
Processor base frequency *	2.2 GHz	Intel VT-x with Extended Page Tables (EPT)	✓
Processor family *	Intel Xeon Silver	Intel TSX-NI	✓
Processor cores *	10	Intel 64	✓
Processor socket *	LGA 3647 (Socket P)	Intel Virtualization Technology (VT-x)	✓
Component for	Server/workstation	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Processor lithography *	14 nm	Intel Turbo Boost Max Technology 3.0	✗
Processor threads	20	AVX-512 Fused Multiply-Add (FMA) units	1
Processor operating modes *	64-bit	Intel® Deep Learning Boost (Intel® DL Boost)	✓
Processor boost frequency	3.2 GHz	Intel® Speed Select technology - Performance Profile (Intel® SST-PP)	✗
Processor cache	13.75 MB	Intel® Resource Director Technology (Intel® RDT)	✓
Thermal Design Power (TDP)	85 W	Intel® Volume Management Device (VMD)	✓
Box *	✗	Intel® Run Sure Technology	✗
Cooler included *	✗	Mode-based Execute Control (MBE)	✓
Processor codename	Cascade Lake	Intel® Optane™ DC Persistent Memory Supported	✗
Processor ARK ID	193384	Intel® vPro™ Platform Eligibility	✓
Memory		Intel Speed Select Technology (SST)	✗
Maximum internal memory supported by processor	1.02 TB	Intel® Speed Select Technology - Base Frequency (Intel® SST-BF)	✗
Memory types supported by processor	DDR4-SDRAM	Intel® Optane™ DC Persistent Memory technology	✗
Memory clock speeds supported by processor	2400 MHz	Operational conditions	
Memory channels *	Hexa-channel	Tcase	78 °C
ECC	✓	Technical details	
Graphics		Launch date	Q2'19
On-board graphics card *	✗	Product type	Processor
Discrete graphics card *	✗	Status	Launched
On-board graphics card model *	Not available	Supported memory types	DDR4-SDRAM
Discrete graphics card model *	Not available	Memory speed (max)	2400 MHz
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		

Features		Technical details	
Scalability	25	Number of UPI links	2
Embedded options available	✓	Servicing status	Baseline Servicing
PCI Express CEM revision	3.0	Logistics data	
Export Control Classification Number (ECCN)	5A992C	Harmonized System (HS) code	85423119
Commodity Classification Automated Tracking System (CCATS)	G077159	Packaging data	
Processor special features		Package type	Retail box
Intel® Hyper Threading Technology (Intel® HT Technology)	✓	Weight & dimensions	
Intel® Turbo Boost Technology	2.0	Processor package size	76mm x 56.5mm
Intel® AES New Instructions (Intel® AES-NI)	✓	Other features	
Enhanced Intel SpeedStep Technology	✓	Maximum internal memory	1 TB



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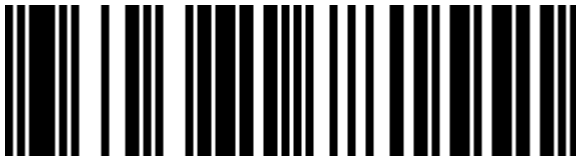
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