

Intel Xeon 4214 processor 2.2 GHz 16.5 MB

Brand : Intel

Product family: Xeon

Product code:
CD8069504212601

Product name : 4214

Intel Xeon Silver 4214 Processor (17MB Cache, up to 3.2 GHz)

Intel Xeon 4214. 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 special features	
Processor manufacturer *	Intel	Intel® Speed Shift Technology	✓
Processor generation	2nd Generation Intel® Xeon® Scalable	Intel® Transactional Synchronization Extensions	✓
Processor model *	4214	Intel VT-x with Extended Page Tables (EPT)	✓
Processor base frequency *	2.2 GHz	Intel TSX-NI	✓
Processor family *	Intel Xeon Silver	Intel 64	✓
Processor cores *	12	Intel Virtualization Technology (VT-x)	✓
Processor socket *	LGA 3647 (Socket P)	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Component for	Server/workstation	Intel Turbo Boost Max Technology 3.0	✗
Processor lithography *	14 nm	AVX-512 Fused Multiply-Add (FMA) units	1
Processor threads	24	Intel® Deep Learning Boost (Intel® DL Boost)	✓
Processor operating modes *	64-bit	Intel® Speed Select technology - Performance Profile (Intel® SST-PP)	✗
Processor boost frequency	3.2 GHz	Intel® Resource Director Technology (Intel® RDT)	✓
Processor cache	16.5 MB	Intel® Volume Management Device (VMD)	✓
Thermal Design Power (TDP)	85 W	Intel® Run Sure Technology	✗
Box *	✗	Mode-based Execute Control (MBE)	✓
Cooler included *	✗	Intel® Optane™ DC Persistent Memory Supported	✗
Processor codename	Cascade Lake	Intel® vPro™ Platform Eligibility	✓
Processor ARK ID	193385	Intel Speed Select Technology (SST)	✗
		Intel® Speed Select Technology - Base Frequency (Intel® SST-BF)	✗
		Intel® Optane™ DC Persistent Memory technology	✗
Memory		Operational conditions	
Maximum internal memory supported by processor	1.02 TB	Tcase	77 °C
Memory types supported by processor	DDR4-SDRAM	Technical details	
Memory clock speeds supported by processor	2400 MHz	Launch date	Q2'19
Memory channels *	Hexa-channel	Product type	Processor
ECC	✓	Status	Launched
		Supported memory types	DDR4-SDRAM
		Memory speed (max)	2400 MHz
		Number of UPI links	2
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		

Features		Technical details	
Scalability	25	Servicing status	Baseline Servicing
Embedded options available	✓	Logistics data	
PCI Express CEM revision	3.0	Harmonized System (HS) code	85423119
Export Control Classification Number (ECCN)	5A992C	Packaging data	
Commodity Classification Automated Tracking System (CCATS)	G077159	Package width	43 mm
Processor special features		Package depth	137 mm
Intel® Hyper Threading Technology (Intel® HT Technology)	✓	Package height	112 mm
Intel® Turbo Boost Technology	2.0	Package weight	201 g
Intel® AES New Instructions (Intel® AES-NI)	✓	Package type	Retail box
Enhanced Intel SpeedStep Technology	✓	Weight & dimensions	
Intel Trusted Execution Technology	✓	Processor package size	76mm x 56.5mm
		Other features	
		Maximum internal memory	1 TB



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