

Intel Xeon 4214R processor 2.4 GHz 16.5 MB

Brand : Intel

Product family: Xeon

Product code:
CD8069504343701

Product name : 4214R

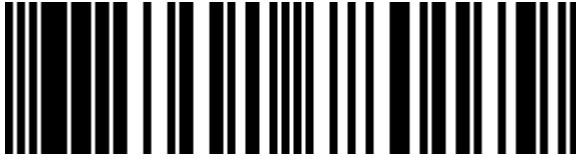
Intel Xeon Silver 4214R Processor (16.5MB Cache, up to 3.5 GHz)

Intel Xeon 4214R. 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 *	4214R	Intel VT-x with Extended Page Tables (EPT)	✓
Processor base frequency *	2.4 GHz	Intel 64	✓
Processor family *	Intel Xeon Silver	Intel Virtualization Technology (VT-x)	✓
Processor cores *	12	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Processor socket *	LGA 3647 (Socket P)	Intel Turbo Boost Max Technology 3.0	✗
Component for	Server/workstation	AVX-512 Fused Multiply-Add (FMA) units	1
Processor lithography *	14 nm	Intel® Deep Learning Boost (Intel® DL Boost)	✓
Processor threads	24	Intel® Speed Select technology - Performance Profile (Intel® SST-PP)	✗
Processor operating modes *	64-bit	Intel® Resource Director Technology (Intel® RDT)	✓
Processor boost frequency	3.5 GHz	Intel® Volume Management Device (VMD)	✓
Processor cache	16.5 MB	Intel® Run Sure Technology	✗
Thermal Design Power (TDP)	100 W	Mode-based Execute Control (MBE)	✓
Box *	✗	Intel® Optane™ DC Persistent Memory Supported	✗
Cooler included *	✗	Intel® vPro™ Platform Eligibility	✓
Processor codename	Cascade Lake	Intel Speed Select Technology (SST)	✗
Processor ARK ID	197100	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	79 °C
Memory types supported by processor	DDR4-SDRAM	Technical details	
Memory clock speeds supported by processor	2400 MHz	Launch date	Q1'20
Memory channels *	Hexa-channel	Product type	Processor
ECC	✓	Status	Launched
Graphics		Supported memory types	DDR4-SDRAM
On-board graphics card *	✗	Memory speed (max)	2400 MHz
Discrete graphics card *	✗	Number of UPI links	2
On-board graphics card model *	Not available	Servicing status	Baseline Servicing
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		Logistics data	
Scalability	2S	Harmonized System (HS) code	85423119
Embedded options available	✓	Packaging data	
PCI Express CEM revision	3.0	Package width	43 mm
Export Control Classification Number (ECCN)	5A992C	Package depth	137 mm
Commodity Classification		Package height	112 mm
Automated Tracking System (CCATS)	G077159	Package type	Retail box
Processor special features		Weight & dimensions	
Intel® Hyper Threading Technology (Intel® HT Technology)	✓	Processor package size	76mm x 56.5mm
Intel® Turbo Boost Technology	2.0	Other features	
Intel® AES New Instructions (Intel® AES-NI)	✓	Maximum internal memory	1 TB
Enhanced Intel SpeedStep Technology	✓		
Intel Trusted Execution Technology	✓		



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