

Intel Xeon 4215R processor 3.2 GHz 11 MB

Brand : Intel

Product family: Xeon

Product code:
CD8069504449200

Product name : 4215R

Intel Xeon Silver 4215R Processor (11MB Cache, up to 4 GHz)

Intel Xeon 4215R. 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. Processor package size: 76mm x 56.5mm. Maximum internal memory: 1 TB



Processor		Processor special features	
Processor manufacturer *	Intel	Enhanced Intel SpeedStep Technology	✓
Processor generation	2nd Generation Intel® Xeon® Scalable	Intel Trusted Execution Technology	✓
Processor model *	4215R	Intel® Speed Shift Technology	✓
Processor base frequency *	3.2 GHz	Intel® Transactional Synchronization Extensions	✓
Processor family *	Intel Xeon Silver	Intel VT-x with Extended Page Tables (EPT)	✓
Processor cores *	8	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	16	AVX-512 Fused Multiply-Add (FMA) units	1
Processor operating modes *	64-bit	Intel® Deep Learning Boost (Intel® DL Boost)	✓
Processor boost frequency	4 GHz	Intel® Speed Select technology - Performance Profile (Intel® SST-PP)	✗
Processor cache	11 MB	Intel® Resource Director Technology (Intel® RDT)	✓
Thermal Design Power (TDP)	130 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	199349	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	79 °C
ECC	✓	Technical details	
Graphics		Launch date	Q1'20
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		
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	Memory speed (max)	2400 MHz
Embedded options available	✓	Number of UPI links	2
PCI Express CEM revision	3.0	Servicing status	Baseline Servicing
Export Control Classification Number (ECCN)	5A992C	Logistics data	
Commodity Classification Automated Tracking System (CCATS)	G077159	Harmonized System (HS) code	85423119
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



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