intel

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 (11M Cache, 3.20 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		
Processor cores *	8	Intel VT-x with Extended Page Tables (EPT)	✔
Processor socket *	LGA 3647 (Socket P)		
Component for	Server/workstation	Intel 64	✔
Processor lithography *	14 nm	Intel Virtualization Technology (VT-x)	✔
Processor threads	16		
Processor operating modes *	64-bit	Intel Virtualization Technology for Directed I/O (VT-d)	✔
Processor boost frequency	4 GHz		
Processor cache	11 MB	Intel Turbo Boost Max Technology 3.0	✘
Thermal Design Power (TDP)	130 W		
Box *	✘	AVX-512 Fused Multiply-Add (FMA) units	1
Cooler included *	✘		
Processor codename	Cascade Lake	Intel® Deep Learning Boost (Intel® DL Boost)	✔
Processor ARK ID	199349		
Memory		Intel® Speed Select technology - Performance Profile (Intel® SST-PP)	✘
Maximum internal memory supported by processor	1.02 TB	Intel® Resource Director Technology (Intel® RDT)	✔
Memory types supported by processor	DDR4-SDRAM	Intel® Volume Management Device (VMD)	✔
Memory clock speeds supported by processor	2400 MHz	Intel® Run Sure Technology	✘
Memory channels *	Hexa-channel	Mode-based Execute Control (MBE)	✔
ECC	✔	Intel® Optane™ DC Persistent Memory Supported	✔
Graphics		Intel® vPro™ Platform Eligibility	✔
On-board graphics card *	✘	Intel Speed Select Technology (SST)	✘
Discrete graphics card *	✘	Intel® Speed Select Technology - Base Frequency (Intel® SST-BF)	✘
On-board graphics card model *	Not available		
Discrete graphics card model *	Not available	Intel® Optane™ DC Persistent Memory technology	✔
Features		**Operational conditions**	
Execute Disable Bit	✔	Tcase	79 °C
Market segment	Server	**Technical details**	
Maximum number of PCI Express lanes	48	Launch date	Q1'20
		Product type	Processor
PCI Express slots version	3.0	Status	Launched
Supported instruction sets	SSE4.2, AVX, AVX 2.0, AVX-512	Supported memory types	DDR4-SDRAM

Features

Scalability	2S
Embedded options available	✓
PCI Express CEM revision	3.0
Export Control Classification Number (ECCN)	5A992C
Commodity Classification Automated Tracking System (CCATS)	G077159

Processor special features

Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Intel® Turbo Boost Technology	2.0
Intel® AES New Instructions (Intel® AES-NI)	✓

Technical details

Memory speed (max)	2400 MHz
Number of UPI links	2
Servicing status	Baseline Servicing

Logistics data

Harmonized System (HS) code	85423119

Weight & dimensions

Processor package size	76mm x 56.5mm

Other features

Maximum internal memory	1 TB

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