

Intel Xeon 5218R processor 2.1 GHz 27.5 MB



Brand : Intel

Product family: Xeon

Product code:
CD8069504446300

Product name : 5218R

Intel® Xeon® Gold 5218R Processor (27.5M Cache, 2.10 GHz)
 Intel Xeon 5218R. Processor family: Intel® Xeon® Gold, 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 *	5218R	Intel® Transactional Synchronization Extensions	✓
Processor base frequency *	2.1 GHz	Intel VT-x with Extended Page Tables (EPT)	✓
Processor family *	Intel® Xeon® Gold	Intel 64	✓
Processor cores *	20	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	40	Intel® Deep Learning Boost (Intel® DL Boost)	✓
Processor operating modes *	64-bit	Intel® Speed Select technology - Performance Profile (Intel® SST-PP)	✗
Processor boost frequency	4 GHz	Intel® Resource Director Technology (Intel® RDT)	✓
Processor cache	27.5 MB	Intel® Volume Management Device (VMD)	✓
Thermal Design Power (TDP)	125 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	199342	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	87 °C
Memory types supported by processor	DDR4-SDRAM	Technical details	
Memory clock speeds supported by processor	2667 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)	2667 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		
Scalability	2S		
Embedded options available	✗		

Features		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 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	✓		



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