



Lenovo Xeon 5218R processor 2.1 GHz 27.5 MB

Brand : Lenovo

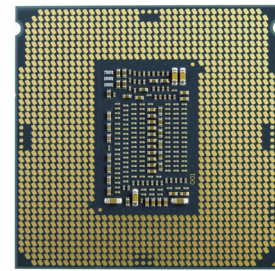
Product family: Xeon

Product code: 4XG7A63272

Product name : Xeon 5218R

Intel Xeon Gold 5218R Processor (27.5MB Cache, up to 4 GHz)

Lenovo 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. Processor package size: 76.0 x 56.5 mm



Processor		Processor special features	
Processor generation	2nd Generation Intel® Xeon® Scalable	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor model *	5218R	Intel® Turbo Boost Technology	2.0
Processor base frequency *	2.1 GHz	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor family *	Intel® Xeon® Gold	Enhanced Intel SpeedStep Technology	✓
Processor cores *	20	Intel Trusted Execution Technology	✓
Processor socket *	LGA 3647 (Socket P)	Intel® Speed Shift Technology	✓
Component for	Server/workstation	Intel VT-x with Extended Page Tables (EPT)	✓
Processor lithography *	14 nm	Intel 64	✓
Processor threads	40	Intel Virtualization Technology (VT-x)	✓
Processor operating modes *	64-bit	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Processor boost frequency	4 GHz	Intel Turbo Boost Max Technology 3.0	✗
Processor cache	27.5 MB	AVX-512 Fused Multiply-Add (FMA) units	1
Thermal Design Power (TDP)	125 W	Intel® Deep Learning Boost (Intel® DL Boost)	✓
Box *	✗	Intel® Speed Select technology - Performance Profile (Intel® SST-PP)	✗
Cooler included *	✗	Intel® Volume Management Device (VMD)	✓
Processor codename	Cascade Lake	Intel® Optane™ DC Persistent Memory Supported	✓
Processor ARK ID	199342	Intel® vPro™ Platform Eligibility	✓
		Intel® Speed Select Technology - Base Frequency (Intel® SST-BF)	✗
Memory			
Maximum internal memory supported by processor	1.02 TB		
Memory types supported by processor	DDR4-SDRAM		
Memory clock speeds supported by processor	2667 MHz		
Memory channels *	Hexa-channel		
ECC	✓		
Graphics			
On-board graphics card *	✗		

Graphics		Operational conditions	
Discrete graphics card *	✘	Tcase	87 °C
On-board graphics card model *	Not available	Logistics data	
Discrete graphics card model *	Not available	Harmonized System (HS) code	85423119
Features		Weight & dimensions	
Execute Disable Bit	✔	Processor package size	76.0 x 56.5 mm
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	✘		
PCI Express CEM revision	3.0		



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