Lenovo Xeon Intel Gold 5218R processor 2.1 GHz 27.5 MB

Brand : Lenovo **Product family:** Xeon **Product code:** 4XG7A63296

Product name : Intel Xeon Gold 5218R

Intel Xeon Gold 5218R 2.1GHz, 20C/40T, 10.4GT/s, 27.5M Cache, HT (125W) DDR4-2666

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The Intel Xeon® 5218R 2.1GHz Twenty Core Processor enhances the performance and the speed of your system. Additionally, the Virtualization Technology enables migration of more environments. It supports enhanced SpeedStep® technology that allows tradeoffs to be made between performance and power consumption.

Its Thermal Monitoring Technologies protect the processor package and the system from thermal failure through several thermal management features. The VT-x with Extended Page Tables (EPT) also known as Second Level Address Translation (SLAT), provides acceleration for memory intensive virtualized applications. Packed with more features, the Xeon 5218R 2.1GHz Twenty Core Processor is the ideal choice for virtually all of your data demanding or standard enterprise infrastructure applications.

Processor	
Processor manufacturer *	Intel
Processor generation	2nd Generation Intel® Xeon® Scalable
Processor model *	5218R
Processor base frequency *	2.1 GHz
Processor family *	Intel® Xeon® Gold
Processor cores *	20
Processor socket *	LGA 3647 (Socket P)
Component for	Server/workstation
Processor lithography *	14 nm
Processor threads	40
Processor operating modes *	64-bit
Processor boost frequency	4 GHz
Processor cache	27.5 MB
Thermal Design Power (TDP)	125 W
Processor codename	Cascade Lake
Processor ARK ID	199342

Memory	
Maximum internal memory supported by processor	1 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 *	✘
Discrete graphics card *	✘
On-board graphics card model *	Not available
Discrete graphics card model *	Not available

Features	
Execute Disable Bit	✔
Market segment	Server
Maximum number of PCI Express lanes	48

Processor special features	
Intel® Hyper Threading Technology (Intel® HT Technology)	✔
Intel® Turbo Boost Technology	2.0
Intel® AES New Instructions (Intel® AES-NI)	✔
Enhanced Intel SpeedStep Technology	✔
Intel Trusted Execution Technology	✔
Intel® Speed Shift Technology	✔
Intel VT-x with Extended Page Tables (EPT)	✔
Intel 64	✔
Intel Virtualization Technology (VT-x)	✔
Intel Virtualization Technology for Directed I/O (VT-d)	✔
Intel Turbo Boost Max Technology 3.0	✘
AVX-512 Fused Multiply-Add (FMA) units	1
Intel® Deep Learning Boost (Intel® DL Boost) on CPU	✔
Intel® Speed Select technology - Performance Profile (Intel® SST-PP)	✘
Intel® Volume Management Device (VMD)	✔
Intel® Optane™ DC Persistent Memory Supported	✔
Intel® vPro™ Platform Eligibility	✔
Intel® Speed Select Technology - Base Frequency (Intel® SST-BF)	✘

Operational conditions	
Tcase	87 °C

Logistics data	
Harmonized System (HS) code	85423119

Weight & dimensions	
Processor package size	76.0 x 56.5 mm

Features	
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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