intel

Intel Xeon 4208 processor 2.1 GHz 11 MB

Brand : Intel

Product family: Xeon

Product code: CD8069503956401
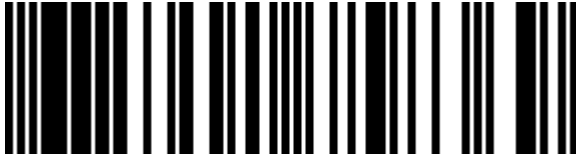
Product name : 4208

Intel® Xeon® Silver 4208 Processor (11M Cache, 2.10 GHz)
Intel Xeon 4208. 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. Package width: 43 mm, Package depth: 137 mm, Package height: 112 mm. Processor package size: 76mm x 56.5mm

Processor		Processor special features	
Processor manufacturer *	Intel	Intel® Speed Shift Technology	✔
Processor generation	2nd Generation Intel® Xeon® Scalable	Intel® Transactional Synchronization Extensions	✔
Processor model *	4208	Intel VT-x with Extended Page Tables (EPT)	✔
Processor base frequency *	2.1 GHz		
Processor family *	Intel Xeon Silver	Intel TSX-NI	✔
Processor cores *	8	Intel 64	✔
Processor socket *	LGA 3647 (Socket P)	Intel Virtualization Technology (VT-x)	✔
Component for	Server/workstation		
Processor lithography *	14 nm	Intel Virtualization Technology for Directed I/O (VT-d)	✔
Processor threads	16		
Processor operating modes *	64-bit	Intel Turbo Boost Max Technology 3.0	✖
Processor boost frequency	3.2 GHz		
Processor cache	11 MB	AVX-512 Fused Multiply-Add (FMA) units	1
Thermal Design Power (TDP)	85 W		
Box *	✖	Intel® Deep Learning Boost (Intel® DL Boost)	✔
Cooler included *	✖		
Processor codename	Cascade Lake	Intel® Speed Select technology - Performance Profile (Intel® SST-PP)	✖
Processor ARK ID	193390		
Memory		Intel® Resource Director Technology (Intel® RDT)	✔
Maximum internal memory supported by processor	1.02 TB	Intel® Volume Management Device (VMD)	✔
Memory types supported by processor	DDR4-SDRAM	Intel® Run Sure Technology	✖
		Mode-based Execute Control (MBE)	✔
Memory clock speeds supported by processor	2400 MHz	Intel® Optane™ DC Persistent Memory Supported	✖
Memory channels *	Hexa-channel	Intel® vPro™ Platform Eligibility	✔
ECC	✔	Intel Speed Select Technology (SST)	✖
Graphics		Intel® Speed Select Technology - Base Frequency (Intel® SST-BF)	✖
On-board graphics card *	✖	Intel® Optane™ DC Persistent Memory technology	✖
Discrete graphics card *	✖		
On-board graphics card model *	Not available	**Operational conditions**	
Discrete graphics card model *	Not available	Tcase	78 °C
Features		**Technical details**	
Execute Disable Bit	✔	Launch date	Q2'19
Market segment	Server	Product type	Processor
Maximum number of PCI Express lanes	48	Status	Launched
		Supported memory types	DDR4-SDRAM
PCI Express slots version	3.0	Memory speed (max)	2400 MHz
Supported instruction sets	SSE4.2, AVX, AVX 2.0, AVX-512	Number of UPI links	2

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)	✓
Enhanced Intel SpeedStep Technology	✓
Intel Trusted Execution Technology	✓

Technical details

Servicing status	Baseline Servicing

Logistics data

Harmonized System (HS) code	85423119

Packaging data

Package width	43 mm
Package depth	137 mm
Package height	112 mm
Package weight	201 g
Package type	Retail box

Weight & dimensions

Processor package size	76mm x 56.5mm

Other features

Maximum internal memory	1 TB

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