DELL Xeon Silver 4208 processor 2.1 GHz 11 MB

Brand : DELL   **Product family:** Xeon   **Product code:** 338-BSVU

Product name : Xeon Silver
4208

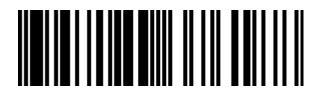Intel Xeon Silver 4208 (11M Cache, 2.10 GHz)
DELL Xeon Silver 4208. Processor family: Intel Xeon Silver, Processor socket: LGA 3647 (Socket P),
Processor lithography: 14 nm. Memory channels: Hexa-channel, Maximum internal memory supported
by processor: 1.02 TB, Memory types supported by processor: DDR4-SDRAM. Market segment: Server,
Supported instruction sets: AVX-512, Scalability: 2S. Processor package size: 76.0 x 56.5 mm.
Compatibility: - PowerEdge C6420 - PowerEdge FC640 - PowerEdge M640 - PowerEdge M640 VRTX -
PowerEdge MX740C -...

Processor

Processor generation	2nd Generation Intel® Xeon® Scalable
Processor model *	4208
Processor base frequency *	2.1 GHz
Processor family *	Intel Xeon Silver
Processor cores *	8
Processor socket *	LGA 3647 (Socket P)
Component for	Server/workstation
Processor lithography *	14 nm
Processor threads	16
Processor operating modes *	64-bit
Processor boost frequency	3.2 GHz
Processor cache	11 MB
Thermal Design Power (TDP)	85 W
Processor codename	Cascade Lake
Processor ARK ID	193390

Memory

Maximum internal memory supported by processor	1.02 TB
Memory types supported by processor	DDR4-SDRAM
Memory clock speeds supported by processor	2400 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
PCI Express slots version	3.0
Supported instruction sets	AVX-512
Scalability	2S
Embedded options available	✘
PCI Express CEM revision	3.0

Processor special features

Intel® Speed Shift Technology	✔
Intel VT-x with Extended Page Tables (EPT)	✔
Intel TSX-NI	✔
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® Resource Director Technology (Intel® RDT)	✔
Intel® Volume Management Device (VMD)	✔
Intel® Run Sure Technology	✘
Mode-based Execute Control (MBE)	✔
Intel® Optane™ DC Persistent Memory Supported	✘
Intel® vPro™ Platform Eligibility	✔
Intel Speed Select Technology (SST)	✘
Intel® Speed Select Technology - Base Frequency (Intel® SST-BF)	✘
Intel® Optane™ DC Persistent Memory technology	✘

Operational conditions

Tcase	78 °C

Technical details

Launch date	Q2'19
Product type	Processor
Status	Launched
Memory speed (max)	2400 MHz
Number of UPI links	2

Logistics data

Harmonized System (HS) code	85423119

Weight & dimensions

Processor package size	76.0 x 56.5 mm

Processor special features		Other features	
Intel® Hyper Threading Technology (Intel® HT Technology)	✔	Compatibility	- PowerEdge C6420 - PowerEdge FC640 - PowerEdge M640 - PowerEdge M640 VRTX - PowerEdge MX740C - PowerEdge R440 - PowerEdge R540 - PowerEdge R640 - PowerEdge R740 - PowerEdge R740XD - PowerEdge T440 - PowerEdge T640 - PowerEdge XR2
Intel® Turbo Boost Technology	2.0		
Intel® AES New Instructions (Intel® AES-NI)	✔		
Enhanced Intel SpeedStep Technology	✔		
Intel Trusted Execution Technology	✔		

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