



DELL Xeon Intel Silver 4210 processor 2.2 GHz 13.75 MB

Brand : DELL

Product family: Xeon

Product code: 338-BSDG

Product name : Intel Xeon
Silver 4210

Intel Xeon Silver 4210 2.20GHz, 10C/20T, 9.6GT/s, 13.75M Cache, Turbo, HT (85W)

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The Intel Xeon® 4210 2.20GHz Ten 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 4210 2.20GHz Ten Core Processor is the ideal choice for virtually all of your data demanding or standard enterprise infrastructure applications.

Processor		Processor special features	
Processor generation	2nd Generation Intel® Xeon® Scalable	Intel Trusted Execution Technology	✓
Processor model *	4210	Intel® Speed Shift Technology	✓
Processor base frequency *	2.2 GHz	Intel VT-x with Extended Page Tables (EPT)	✓
Processor family *	Intel Xeon Silver	Intel TSX-NI	✓
Processor cores *	10	Intel 64	✓
Processor socket *	LGA 3647 (Socket P)	Intel Virtualization Technology (VT-x)	✓
Component for	Server/workstation	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Processor lithography *	14 nm	Intel Turbo Boost Max Technology 3.0	✗
Processor threads	20	AVX-512 Fused Multiply-Add (FMA) units	1
Processor operating modes *	64-bit	Intel® Deep Learning Boost (Intel® DL Boost) on CPU	✓
Processor boost frequency	3.2 GHz	Intel® Resource Director Technology (Intel® RDT)	✓
Processor cache	13.75 MB	Intel® Volume Management Device (VMD)	✓
Thermal Design Power (TDP)	85 W	Intel® Run Sure Technology	✗
Processor codename	Cascade Lake	Mode-based Execute Control (MBE)	✓
Processor ARK ID	193384	Intel® vPro™ Platform Eligibility	✓
Memory		Intel Speed Select Technology (SST)	✗
Maximum internal memory supported by processor	1.02 TB	Intel® Speed Select Technology - Base Frequency (Intel® SST-BF)	✗
Memory types supported by processor	DDR4-SDRAM	Intel® Optane™ DC Persistent Memory technology	✗
Memory clock speeds supported by processor	2400 MHz	Operational conditions	
Memory channels *	Hexa-channel	Tcase	78 °C
ECC	✓	Technical details	
Graphics		Launch date	Q2'19
On-board graphics card *	✗	Product type	Processor
Discrete graphics card *	✗	Status	Launched
On-board graphics card model *	Not available	Memory speed (max)	2400 MHz
Discrete graphics card model *	Not available	Number of UPI links	2
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		

Features		Logistics data	
Scalability	25	Harmonized System (HS) code	85423119
Embedded options available	✓	Weight & dimensions	
PCI Express CEM revision	3.0	Processor package size	76.0 x 56.5 mm
Processor special features		Other features	
Intel® Hyper Threading Technology (Intel® HT Technology)	✓	Compatibility	- PowerEdge R640 - PowerEdge R740 - PowerEdge R740XD - PowerEdge C6420 - PowerEdge R440 - PowerEdge T640 - PowerEdge T440 - PowerEdge FC640 - PowerEdge M640 - PowerEdge M640 VRTX - PowerEdge R540 - PowerEdge MX740c - PowerEdge R740xd2 - PowerEdge XR2
Intel® Turbo Boost Technology	2.0		
Intel® AES New Instructions (Intel® AES-NI)	✓		
Enhanced Intel SpeedStep Technology	✓		



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