



DELL Xeon 4214 processor 2.2 GHz 16.5 MB

Brand : DELL

Product family: Xeon

Product code: 338-BSDR

Product name : 4214

Intel Xeon Silver 4214 2.2GHz, 12C/24T, 9.6GT/s, 16.5M Cache, Turbo, HT (85W)
DELL Xeon 4214. 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 R940 - PowerEdge M640 VRTX - PowerEdge R740 - PowerEdge T440 - PowerEdge R740XD -...

Processor		Processor special features	
Processor generation	2nd Generation Intel® Xeon® Scalable	Intel® Speed Shift Technology	✓
Processor model *	4214	Intel VT-x with Extended Page Tables (EPT)	✓
Processor base frequency *	2.2 GHz	Intel TSX-NI	✓
Processor family *	Intel Xeon Silver	Intel 64	✓
Processor cores *	12	Intel Virtualization Technology (VT-x)	✓
Processor socket *	LGA 3647 (Socket P)	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Component for	Server/workstation	Intel Turbo Boost Max Technology 3.0	✗
Processor lithography *	14 nm	AVX-512 Fused Multiply-Add (FMA) units	1
Processor threads	24	Intel® Deep Learning Boost (Intel® DL Boost) on CPU	✓
Processor operating modes *	64-bit	Intel® Speed Select technology - Performance Profile (Intel® SST-PP)	✗
Processor boost frequency	3.2 GHz	Intel® Resource Director Technology (Intel® RDT)	✓
Processor cache	16.5 MB	Intel® Volume Management Device (VMD)	✓
Thermal Design Power (TDP)	85 W	Intel® Run Sure Technology	✗
Box *	✗	Mode-based Execute Control (MBE)	✓
Cooler included *	✗	Intel® Optane™ DC Persistent Memory Supported	✗
Processor codename	Cascade Lake	Intel® vPro™ Platform Eligibility	✓
Processor ARK ID	193385	Intel Speed Select Technology (SST)	✗
Memory		Intel® Speed Select Technology - Base Frequency (Intel® SST-BF)	✗
Maximum internal memory supported by processor	1.02 TB	Intel® Optane™ DC Persistent Memory technology	✗
Memory types supported by processor	DDR4-SDRAM	Operational conditions	
Memory clock speeds supported by processor	2400 MHz	Tcase	77 °C
Memory channels *	Hexa-channel	Technical details	
ECC	✓	Launch date	Q2'19
Graphics		Product type	Processor
On-board graphics card *	✗	Status	Launched
Discrete graphics card *	✗	Memory speed (max)	2400 MHz
On-board graphics card model *	Not available	Number of UPI links	2
Discrete graphics card model *	Not available	Logistics data	
Features		Harmonized System (HS) code	85423119
Execute Disable Bit	✓	Weight & dimensions	
Market segment	Server	Processor package size	76.0 x 56.5 mm
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	Other features
Intel® Hyper Threading Technology (Intel® HT Technology) ✓	Compatibility - PowerEdge R940 - PowerEdge M640 VRTX - PowerEdge R740 - PowerEdge T440 - PowerEdge R740XD - PowerEdge T640 - PowerEdge M640 - PowerEdge R740xd2 - PowerEdge C4140 - PowerEdge MX740C - PowerEdge R440 - PowerEdge FC640 - PowerEdge R540 - PowerEdge R640 - PowerEdge C6420 - 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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