



DELL Xeon 4214R processor 2.4 GHz 16.5 MB

Brand : DELL

Product family: Xeon

Product code: 338-BVKC

Product name : 4214R

Intel Xeon Silver 4214R 2.4GHz, 12C/24T, 9.6GT/s, 16.5M Cache, HT (100W) DDR4-2400

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The Intel Xeon® 4214R 2.4GHz Twelve 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 4214R 2.4GHz Twelve Core Processor is the ideal choice for virtually all of your data demanding or standard enterprise infrastructure applications.



Processor		Processor special features	
Processor manufacturer *	Intel	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor generation	2nd Generation Intel® Xeon® Scalable	Intel® Turbo Boost Technology	2.0
Processor model *	4214R	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor base frequency *	2.4 GHz	Enhanced Intel SpeedStep Technology	✓
Processor family *	Intel Xeon Silver	Intel Trusted Execution Technology	✓
Processor cores *	12	Intel® Speed Shift Technology	✓
Processor socket *	LGA 3647 (Socket P)	Intel VT-x with Extended Page Tables (EPT)	✓
Component for	Server/workstation	Intel 64	✓
Processor lithography *	14 nm	Intel Virtualization Technology (VT-x)	✓
Processor threads	24	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Processor operating modes *	64-bit	Intel Turbo Boost Max Technology 3.0	✗
Processor boost frequency	3.5 GHz	AVX-512 Fused Multiply-Add (FMA) units	1
Processor cache	16.5 MB	Intel® Deep Learning Boost (Intel® DL Boost) on CPU	✓
Thermal Design Power (TDP)	100 W	Intel® Speed Select technology - Performance Profile (Intel® SST-PP)	✗
Cooler included *	✗	Intel® Volume Management Device (VMD)	✓
Processor codename	Cascade Lake	Intel® Optane™ DC Persistent Memory Supported	✗
Processor ARK ID	197100	Intel® vPro™ Platform Eligibility	✓
Memory		Intel® Speed Select Technology - Base Frequency (Intel® SST-BF)	✗
Maximum internal memory supported by processor	1.02 TB	Operational conditions	
Memory types supported by processor	DDR4-SDRAM	Tcase	79 °C
Memory clock speeds supported by processor	2400 MHz	Logistics data	
Memory channels *	Hexa-channel	Harmonized System (HS) code	85423119
ECC	✓	Weight & dimensions	
Graphics		Processor package size	76.0 x 56.5 mm
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		

Features	
PCI Express slots version	3.0
Supported instruction sets	SSE4.2, AVX, AVX 2.0, AVX-512
Scalability	25
Embedded options available	✓
PCI Express CEM revision	3.0



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