DELL Xeon 4214R processor 2.4 GHz 16.5 MB

Brand : DELL

Product name : 4214R

Product family: Xeon

Product code: 338-BVKC

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 manufacturer *	Intel
Processor generation	2nd Generation Intel® Xeon® Scalable
Processor model *	4214R
Processor base frequency *	2.4 GHz
Processor family *	Intel Xeon Silver
Processor cores *	12
Processor socket *	LGA 3647 (Socket P)
Component for	Server/workstation
Processor lithography *	14 nm
Processor threads	24
Processor operating modes *	64-bit
Processor boost frequency	3.5 GHz
Processor cache	16.5 MB
Thermal Design Power (TDP)	100 W
Cooler included *	✗
Processor codename	Cascade Lake
Processor ARK ID	197100

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

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	✔
Intel® Speed Shift Technology	✔
Intel VT-x with Extended Page Tables (EPT)	✔
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® Volume Management Device (VMD)	✔
Intel® Optane™ DC Persistent Memory Supported	✗
Intel® vPro™ Platform Eligibility	✔
Intel® Speed Select Technology - Base Frequency (Intel® SST-BF)	✗

Operational conditions

Tcase	79 °C

Logistics data

Harmonized System (HS) code	85423119

Weight & dimensions

Processor package size	76.0 x 56.5 mm

Features

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

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