

Intel Xeon E-2314 processor 2.8 GHz 8 MB Smart Cache

Brand : Intel

Product family: Xeon

Product code:
CM8070804496113

Product name : Intel® Xeon®
E-2314 Processor (8M Cache,
2.80 GHz)



CM8070804496113

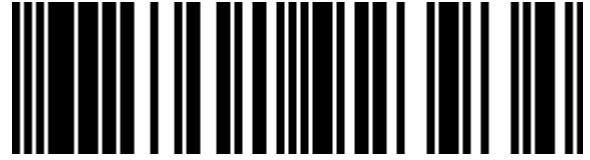
Intel Xeon E-2314. Processor family: Intel Xeon E, Processor socket: LGA 1200 (Socket H5), Processor lithography: 14 nm. Memory channels: Dual-channel, Maximum internal memory supported by processor: 128 GB, Memory types supported by processor: DDR4-SDRAM. Market segment: Server, PCI Express configurations: 1x16+1x4, 2x8+1x4, 1x8+3x4, Supported instruction sets: SSE4.1, SSE4.2, AVX 2.0, AVX-512. Intel® Turbo Boost Technology 2.0 frequency: 4.5 GHz, Maximum Enclave Size Support for Intel® SGX: 0.5 GB. Processor package size: 37.5 x 37.5 mm

Processor		Processor special features	
Processor manufacturer *	Intel	Intel® Hyper Threading Technology (Intel® HT Technology)	✗
Processor model *	E-2314	Intel® Turbo Boost Technology	2.0
Processor base frequency *	2.8 GHz	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor family *	Intel Xeon E	Enhanced Intel SpeedStep Technology	✓
Processor cores *	4	Intel Trusted Execution Technology	✓
Processor socket *	LGA 1200 (Socket H5)	Intel® Memory Protection Extensions (Intel® MPX)	✓
Component for	Server/workstation	Intel® Turbo Boost Technology 2.0 frequency	4.5 GHz
Processor lithography *	14 nm	Intel® Transactional Synchronization Extensions	✗
Processor threads	4	Maximum Enclave Size Support for Intel® SGX	0.5 GB
System bus rate	8 GT/s	Intel VT-x with Extended Page Tables (EPT)	✓
Processor operating modes *	64-bit	Intel® Secure Key	✓
Processor boost frequency	4.5 GHz	Intel® OS Guard	✓
Processor cache	8 MB	Intel Software Guard Extensions (Intel SGX)	✓
Processor cache type	Smart Cache	Intel 64	✓
Thermal Design Power (TDP)	65 W	Intel Virtualization Technology (VT-x)	✓
Box *	✗	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Cooler included *	✗	Intel® Boot Guard	✓
Processor ARK ID	212259	Intel® Optane™ DC Persistent Memory Supported	✗
		Intel® vPro™ Platform Eligibility	✓
Memory		Operational conditions	
Maximum internal memory supported by processor	128 GB	Tjunction	100 °C
Memory types supported by processor	DDR4-SDRAM	Technical details	
Memory channels *	Dual-channel	Launch date	Q3'21
ECC	✓	Status	Launched
Graphics		Supported memory types	DDR4-SDRAM
On-board graphics card *	✗	Servicing status	Baseline Servicing
Discrete graphics card *	✗	Logistics data	
On-board graphics card model *	Not available	Harmonized System (HS) code	85423119
Discrete graphics card model *	Not available		
Features			
Execute Disable Bit	✓		
Idle States	✓		
Thermal Monitoring Technologies	✓		
Market segment	Server		
Maximum number of PCI Express lanes	20		
PCI Express slots version	4.0		
PCI Express configurations	1x16+1x4, 2x8+1x4, 1x8+3x4		

Features		Weight & dimensions	
Supported instruction sets	SSE4.1, SSE4.2, AVX 2.0, AVX-512	Processor package size	37.5 x 37.5 mm
Scalability	1S	Other features	
CPU configuration (max)	1	Maximum internal memory	128 GB
Export Control Classification Number (ECCN)	5A992CN3		
Commodity Classification Automated Tracking System (CCATS)	G167599		



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