

Intel Xeon E-2136 processor 3.3 GHz 12 MB Smart Cache Box

Brand : Intel

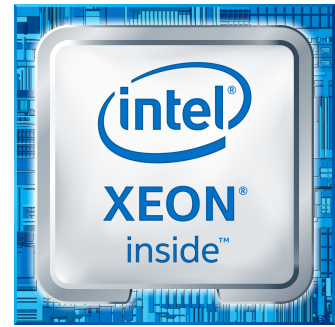
Product family: Xeon

Product code: BX80684E2136

Product name : E-2136

Intel® Xeon® E-2136 Processor
(12M Cache, up to 4.50 GHz)

Intel Xeon E-2136. Processor family: Intel® Xeon®, Processor socket: LGA 1151 (Socket H4), 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, 2x8, 1x8+2x4, Supported instruction sets: SSE4.1, SSE4.2, AVX 2.0. Intel® Turbo Boost Technology 2.0 frequency: 4.5 GHz. Package type: Retail box



Processor		Processor special features	
Processor manufacturer *	Intel	Intel® Turbo Boost Technology	2.0
Processor model *	E-2136	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor base frequency *	3.3 GHz	Enhanced Intel SpeedStep Technology	✓
Processor family *	Intel® Xeon®	Intel Trusted Execution Technology	✓
Processor cores *	6	Intel® Memory Protection Extensions (Intel® MPX)	✓
Processor socket *	LGA 1151 (Socket H4)	Intel® Turbo Boost Technology 2.0 frequency	4.5 GHz
Component for	Server/workstation	Intel® Transactional Synchronization Extensions	✓
Processor lithography *	14 nm	Intel Enhanced Halt State	✓
Processor threads	12	Intel VT-x with Extended Page Tables (EPT)	✓
System bus rate	8 GT/s	Intel® Secure Key	✓
Processor operating modes *	64-bit	Intel TSX-NI	✓
Processor boost frequency	4.5 GHz	Intel® OS Guard	✓
Processor cache	12 MB	Intel Software Guard Extensions (Intel SGX)	✓
Processor cache type	Smart Cache	Intel 64	✓
Thermal Design Power (TDP)	80 W	Intel Secure Key Technology version	1.00
Box *	✓	Intel Virtualization Technology (VT-x)	✓
Cooler included *	✓	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Bus type	DMI3	Intel TSX-NI version	1.00
Memory bandwidth supported by processor (max)	41.6 GB/s	Intel® Optane™ Memory Ready	✓
Processor codename	Coffee Lake	Intel® Boot Guard	✓
Processor ARK ID	134857	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 clock speeds supported by processor	2666 MHz	Bus bandwidth	8
Memory channels *	Dual-channel	Bus type units	GT/s
ECC	✓	Launch date	Q3'18
Graphics		Processor cache	12288 KB
On-board graphics card *	✗	Product type	Processor
Discrete graphics card *	✗	Status	Launched
On-board graphics card model *	Not available	Maximum memory	128 GB
Discrete graphics card model *	Not available	Processor brand name	Intel Xeon
Features			
Execute Disable Bit	✓		
Idle States	✓		

Features		Technical details	
Thermal Monitoring Technologies	✓	Supported memory types	DDR4-SDRAM
Market segment	Server	Last change	63903513
Maximum number of PCI Express lanes	16	Product family	Intel Xeon Processors
PCI Express slots version	3.0	Bus speed	8 GT/s
PCI Express configurations	1x16, 2x8, 1x8+2x4	Servicing status	Baseline Servicing
Supported instruction sets	SSE4.1, SSE4.2, AVX 2.0	Logistics data	
Scalability	1S	Harmonized System (HS) code	85423119
CPU configuration (max)	1	Packaging data	
Embedded options available	✗	Package type	Retail box
PCI Express CEM revision	3.0	Weight & dimensions	
Export Control Classification Number (ECCN)	5A992C	Processor package size	37.5 x 37.5 mm
Commodity Classification Automated Tracking System (CCATS)	G077159	Other features	
Processor special features		Maximum internal memory	128 GB
Intel® Hyper Threading Technology (Intel® HT Technology)	✓	Maximum internal memory	131072 MB



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