

Intel Xeon E-2224 processor 3.4 GHz 8 MB Smart Cache Box

Brand : Intel

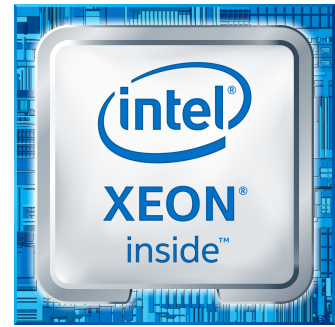
Product family: Xeon

Product code: BX80684E2224

Product name : E-2224

Intel Xeon E-2224 Processor (8MB Cache, up to 4.6 GHz)

Intel Xeon E-2224. Processor family: Intel Xeon E, 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: 4.6 GHz. Package type: Retail box



Processor		Processor special features	
Processor manufacturer *	Intel	Intel® Turbo Boost Technology	2.0
Processor model *	E-2224	Intel® Quick Sync Video Technology	✗
Processor base frequency *	3.4 GHz	Intel® InTru™ 3D Technology	✗
Processor family *	Intel Xeon E	Intel® Clear Video HD Technology (Intel® CVT HD)	✗
Processor cores *	4	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor socket *	LGA 1151 (Socket H4)	Enhanced Intel SpeedStep Technology	✓
Component for	Server/workstation	Intel Trusted Execution Technology	✓
Processor lithography *	14 nm	Intel® Memory Protection Extensions (Intel® MPX)	✓
Processor threads	4	Intel® Turbo Boost Technology 2.0 frequency	4.6 GHz
System bus rate	8 GT/s	Intel® Transactional Synchronization Extensions	✓
Processor operating modes *	64-bit	Intel VT-x with Extended Page Tables (EPT)	✓
Processor boost frequency	4.6 GHz	Intel® Secure Key	✓
Processor cache	8 MB	Intel TSX-NI	✓
Processor cache type	Smart Cache	Intel® OS Guard	✓
Thermal Design Power (TDP)	71 W	Intel Clear Video Technology	✗
Box *	✓	Intel Software Guard Extensions (Intel SGX)	✓
Cooler included *	✓	Intel 64	✓
Processor codename	Coffee Lake	Intel Virtualization Technology (VT-x)	✓
Processor ARK ID	191036	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Memory		Intel® Optane™ Memory Ready	✓
Maximum internal memory supported by processor	128 GB	Intel® Boot Guard	✓
Memory types supported by processor	DDR4-SDRAM	Intel® vPro™ Platform Eligibility	✓
Memory clock speeds supported by processor	2666 MHz	Operational conditions	
Memory channels *	Dual-channel	Tcase	69.3 °C
ECC	✓	Tjunction	100 °C
Graphics		Technical details	
On-board graphics card *	✗	Launch date	Q2'19
Discrete graphics card *	✗	Maximum resolution & refresh rate (DisplayPort)	N/A
On-board graphics card model *	Not available	Product type	Processor
On-board graphics card 4K support	✗	Status	Launched
Discrete graphics card model *	Not available	Maximum memory	128 GB
Features			
Execute Disable Bit	✓		
Idle States	✓		
Thermal Monitoring Technologies	✓		
Market segment	Server		

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



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