

Intel Xeon E-2378G processor 2.8 GHz 16 MB Smart Cache

Brand : Intel

Product family: Xeon

Product code:
CM8070804494916

Product name : Intel® Xeon® E-2378G Processor (16M Cache, 2.80 GHz)



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Intel Xeon E-2378G. 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. On-board graphics card model: Intel UHD Graphics P750, Maximum on-board graphics card memory: 64 GB, On-board graphics card base frequency: 350 MHz. 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: 5.1 GHz, Maximum Enclave Size Support for Intel® SGX: 0.5 GB

Processor		Features	
Processor manufacturer *	Intel	Export Control Classification Number (ECCN)	5A992CN3
Processor model *	E-2378G	Commodity Classification Automated Tracking System (CCATS)	G167599
Processor base frequency *	2.8 GHz	Processor special features	
Processor family *	Intel Xeon E	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor cores *	8	Intel® Turbo Boost Technology	2.0
Processor socket *	LGA 1200 (Socket H5)	Intel® Quick Sync Video Technology	✓
Component for	Server/workstation	Intel® InTru™ 3D Technology	✓
Processor lithography *	14 nm	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Processor threads	16	Intel® AES New Instructions (Intel® AES-NI)	✓
System bus rate	8 GT/s	Enhanced Intel SpeedStep Technology	✓
Processor operating modes *	64-bit	Intel Trusted Execution Technology	✓
Processor boost frequency	5.1 GHz	Intel® Memory Protection Extensions (Intel® MPX)	✓
Processor cache	16 MB	Intel® Turbo Boost Technology 2.0 frequency	5.1 GHz
Processor cache type	Smart Cache	Intel® Transactional Synchronization Extensions	✗
Thermal Design Power (TDP)	80 W	Maximum Enclave Size Support for Intel® SGX	0.5 GB
Box *	✗	Intel VT-x with Extended Page Tables (EPT)	✓
Cooler included *	✗	Intel® Secure Key	✓
Processor ARK ID	212262	Intel® OS Guard	✓
Memory		Intel Clear Video Technology	✓
Maximum internal memory supported by processor	128 GB	Intel Software Guard Extensions (Intel SGX)	✓
Memory types supported by processor	DDR4-SDRAM	Intel 64	✓
Memory channels *	Dual-channel	Intel Virtualization Technology (VT-x)	✓
ECC	✓	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Graphics		Intel® Boot Guard	✓
On-board graphics card *	✓	Intel® Optane™ DC Persistent Memory Supported	✗
Discrete graphics card *	✗	Intel® vPro™ Platform Eligibility	✓
On-board graphics card model *	Intel UHD Graphics P750		
Maximum on-board graphics card memory	64 GB		
On-board graphics card base frequency	350 MHz		
On-board graphics card dynamic frequency (max)	1300 MHz		
On-board graphics card 4K support	✓		
On-board graphics card OpenGL version	4.5		
On-board graphics card refresh rate at maximum resolution (DisplayPort)	60 Hz		

Graphics		Operational conditions	
On-board graphics card refresh rate at maximum resolution (eDP - Integrated Flat Panel)	60 Hz	Tjunction	100 °C
On-board graphics card refresh rate at maximum resolution (HDMI)	60 Hz	Technical details	
Discrete graphics card model *	Not available	Launch date	Q3'21
Number of execution units	32	Status	Launched
Features		Supported memory types	DDR4-SDRAM
Execute Disable Bit	✓	Servicing status	Baseline Servicing
Idle States	✓	Logistics data	
Thermal Monitoring Technologies	✓	Harmonized System (HS) code	85423119
Market segment	Server	Packaging data	
Maximum number of PCI Express lanes	20	Package type	Retail box
PCI Express slots version	4.0	Weight & dimensions	
PCI Express configurations	1x16+1x4, 2x8+1x4, 1x8+3x4	Processor package size	37.5 x 37.5 mm
Supported instruction sets	SSE4.1, SSE4.2, AVX 2.0, AVX-512	Other features	
Scalability	1S	Maximum internal memory	128 GB
CPU configuration (max)	1		



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