

Intel Xeon E-2478 processor 2.8 GHz 24 MB Box

Brand : Intel

Product family: Xeon

Product code: BX80715E2478

Product name : E-2478

Boxed Intel Xeon E-2478 Processor (24M Cache, 2.80 GHz) FC-LGA16A

Intel Xeon E-2478. Processor family: Intel Xeon E, Processor socket: LGA 1700, Processor manufacturer: Intel. Memory channels: Dual-channel, Maximum internal memory supported by processor: 128 GB, Memory types supported by processor: DDR5-SDRAM. Market segment: Server, Use conditions: Server/Enterprise, PCI Express configurations: 2x8+1x4, 1x16+1x4. Intel® Turbo Boost Max Technology 3.0 frequency: 5.2 GHz, Intel® Turbo Boost Technology 2.0 frequency: 5.2 GHz, Microprocessor PCIe Revision: Gen 5. Maximum internal memory: 128 GB



Processor		Processor special features	
Processor manufacturer *	Intel	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor model *	E-2478	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 *	8	Intel Trusted Execution Technology	✓
Processor socket *	LGA 1700	Intel® Turbo Boost Max Technology 3.0 frequency	5.2 GHz
Processor threads	16	Intel® Turbo Boost Technology 2.0 frequency	5.2 GHz
System bus rate	16 GT/s	Intel® Transactional Synchronization Extensions	✗
Processor operating modes *	64-bit	Intel® Total Memory Encryption	✓
Performance cores	8	Intel VT-x with Extended Page Tables (EPT)	✓
Processor boost frequency	5.2 GHz	Intel® Secure Key	✓
Processor cache	24 MB	Intel® OS Guard	✓
Thermal Design Power (TDP)	80 W	Intel 64	✓
Box *	✓	Intel Virtualization Technology (VT-x)	✓
Stepping	B0	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Maximum number of DMI lanes	8	Intel Turbo Boost Max Technology 3.0	✓
Processor codename	Raptor Lake	Intel® Boot Guard	✓
Processor ARK ID	236183	Mode-based Execute Control (MBE)	✓
Memory		Intel® Optane™ DC Persistent Memory Supported	✗
Maximum internal memory supported by processor	128 GB	Intel® Virtualization Technology with Redirect Protection (VT-rp)	✓
Memory types supported by processor	DDR5-SDRAM	Microprocessor PCIe Revision	Gen 5
Memory channels *	Dual-channel	Intel® Total Memory Encryption - Multi Key	✓
ECC	✓	Operational conditions	
Graphics		Tjunction	100 °C
On-board graphics card *	✗	Logistics data	
Discrete graphics card *	✗	Harmonized System (HS) code	8542310001
On-board graphics card model *	Not available		
Discrete graphics card model *	Not available		
Features			
Execute Disable Bit	✓		
Idle States	✓		
Thermal Monitoring Technologies	✓		
Market segment	Server		
Use conditions	Server/Enterprise		
Maximum number of PCI Express lanes	20		

Features		Technical details	
PCI Express slots version	5.0	Launch date	Q4'23
PCI Express configurations	2x8+1x4, 1x16+1x4	Status	Launched
Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2	Servicing status	Baseline Servicing
Scalability	1S	Other features	
CPU configuration (max)	1	Maximum internal memory	128 GB
Embedded options available	✘		
Export Control Classification Number (ECCN)	5A992C		
Commodity Classification Automated Tracking System (CCATS)	740.17B1		



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