

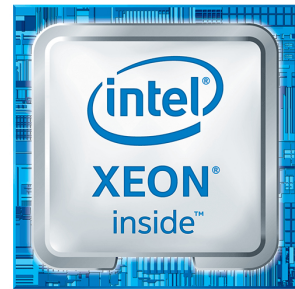
Intel Xeon E-2276ME processor 2.8 GHz 12 MB

Brand : Intel

Product family: Xeon

Product code:
CL8068404164700

Product name : E-2276ME



Intel Xeon E-2276ME Processor (12MB Cache, up to 4.5 GHz)

Intel Xeon E-2276ME. Processor family: Intel Xeon E, Processor socket: FCBGA1440, Processor lithography: 14 nm. Memory channels: Dual-channel, Maximum internal memory supported by processor: 64 GB, Memory types supported by processor: DDR4-SDRAM. On-board graphics card model: Intel UHD Graphics P630, Maximum on-board graphics card memory: 64 GB, On-board graphics card outputs supported: Embedded DisplayPort (eDP), DisplayPort, HDMI, DVI. Market segment: Embedded, 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



Processor		Features	
Processor manufacturer *	Intel	CPU configuration (max)	1
Processor model *	E-2276ME	Embedded options available	✓
Processor base frequency *	2.8 GHz	PCI Express CEM revision	3.0
Processor family *	Intel Xeon E	Harmonized System (HS) code	8542310001
Processor cores *	6	Export Control Classification Number (ECCN)	5A992C
Processor socket *	FCBGA1440	Commodity Classification Automated Tracking System (CCATS)	G077159
Component for	Notebook	Processor special features	
Processor lithography *	14 nm	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor threads	12	Intel® Identity Protection Technology (Intel® IPT)	✓
System bus rate	8 GT/s	Intel® My WiFi Technology (Intel® MWT)	✓
Processor operating modes *	64-bit	Intel® Turbo Boost Technology	2.0
Processor boost frequency	4.5 GHz	Intel® Quick Sync Video Technology	✓
Processor cache	12 MB	Intel® InTru™ 3D Technology	✓
Thermal Design Power (TDP)	45 W	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Box *	✗	Intel Flex Memory Access	✓
Cooler included *	✗	Intel® AES New Instructions (Intel® AES-NI)	✓
Configurable TDP-down	35 W	Enhanced Intel SpeedStep Technology	✓
Processor codename	Coffee Lake	Intel Trusted Execution Technology	✓
Processor ARK ID	193742	Intel® Memory Protection Extensions (Intel® MPX)	✓
Memory		Intel® Speed Shift Technology	✓
Maximum internal memory supported by processor	64 GB	Intel® Turbo Boost Technology 2.0 frequency	4.5 GHz
Memory types supported by processor	DDR4-SDRAM	Intel® Transactional Synchronization Extensions	✓
Memory clock speeds supported by processor	2666 MHz	Intel VT-x with Extended Page Tables (EPT)	✓
Memory channels *	Dual-channel	Intel® Secure Key	✓
ECC	✓	Intel TSX-NI	✓
Graphics		Intel Stable Image Platform Program (SIPP)	✓
On-board graphics card *	✓	Intel® OS Guard	✓
Discrete graphics card *	✗	Intel Clear Video Technology	✓
On-board graphics card model *	Intel UHD Graphics P630		
Maximum on-board graphics card memory	64 GB		
On-board graphics card outputs supported	Embedded DisplayPort (eDP), DisplayPort, HDMI, DVI		
On-board graphics card base frequency	350 MHz		
On-board graphics card dynamic frequency (max)	1150 MHz		

Graphics		Processor special features	
Number of displays supported (on-board graphics)	3	Intel Software Guard Extensions (Intel SGX)	✓
On-board graphics card 4K support	✓	Intel 64	✓
On-board graphics card DirectX version	12.0	Intel Virtualization Technology (VT-x)	✓
On-board graphics card OpenGL version	4.5	Intel Virtualization Technology for Directed I/O (VT-d)	✓
On-board graphics card maximum resolution (DisplayPort)	4096 x 2304 pixels	Intel® Optane™ Memory Ready	✓
On-board graphics card maximum resolution (eDP - Integrated Flat Panel)	4096 x 2304 pixels	Intel® Boot Guard	✓
On-board graphics card maximum resolution (HDMI)	4096 x 2160 pixels	Intel® vPro™ Platform Eligibility	✓
On-board graphics card refresh rate at maximum resolution (DisplayPort)	30 Hz	Operational conditions	
On-board graphics card refresh rate at maximum resolution (eDP - Integrated Flat Panel)	30 Hz	Tjunction	100 °C
On-board graphics card refresh rate at maximum resolution (HDMI)	30 Hz	Technical details	
On-board graphics card ID	0x3E94	Launch date	Q2'19
Discrete graphics card model *	Not available	Maximum resolution & refresh rate (DisplayPort)	4096x2304@30Hz
Features		Product type	Processor
Execute Disable Bit	✓	Status	Launched
Idle States	✓	Maximum memory	64 GB
Thermal Monitoring Technologies	✓	Supported memory types	DDR4-SDRAM
Market segment	Embedded	Bus speed	8 GT/s
Maximum number of PCI Express lanes	16	Maximum graphics card memory	64 GB
PCI Express slots version	3.0	Processor ID	0x3E94
PCI Express configurations	1x16, 2x8, 1x8+2x4	Weight & dimensions	
Supported instruction sets	SSE4.1, SSE4.2, AVX 2.0	Processor package size	42mm x 28mm
		Other features	
		Maximum internal memory	64 GB
		Graphics output	eDP/DP/HDMI/DVI

Disclaimer. The information published here (the "Information") is based on sources that can be considered reliable, typically the manufacturer, but this Information is provided "AS IS" and without guarantee of correctness or completeness. The Information is only indicative and can be changed at any time without notification. No rights can be based on the Information. Suppliers or aggregators of this Information do not accept any liability with regard to the content of (web)pages and other documents, including its Information. The publisher of the Information can not be held liable for the content of 3rd party websites that are linking this Information or are linked to from this Information. You as the User of the Information are solely responsible for the choice and usage of this Information. You are not entitled to transfer, copy or otherwise multiply or distribute the Information. You are obliged to follow the directions of the copyright owner(s) with regard to the use of the Information. Exclusively Dutch law is applicable. With regard to price and stock data on the site, the publisher followed a number of starting points, which are not necessarily relevant for your private or business circumstances. Therefore, the price and stock data are only indicative and are subject to changes. You are personally responsible for the way you use and apply this information. As a user of the Information or sites or documents in which this Information is included, you will adhere to standard fair use including avoidance of spamming, ripping, intellectual-property violations, privacy violations, and any other illegal activity.

Publication date: 23-DEC-2022. Prints or copies of Information are only valid on the printed Publication date