

## Intel Xeon E5-2470 processor 2.3 GHz 20 MB Smart Cache

**Brand :** Intel

**Product family:** Xeon

**Product code:**  
CM8062007187242

**Product name :** E5-2470



Intel® Xeon® Processor E5-2470

(20M Cache, 2.30 GHz, 8.00 GT/s Intel® QPI)

Intel Xeon E5-2470. Processor family: Intel® Xeon® E5 Family, Processor socket: LGA 1356 (Socket B2), Processor lithography: 32 nm. Memory channels: Triple-channel, Maximum internal memory supported by processor: 384 GB, Memory types supported by processor: DDR3-SDRAM. Market segment: Server, Supported instruction sets: AVX, Scalability: 2S. Intel® Turbo Boost Technology 2.0 frequency: 3.1 GHz. Package type: Retail box



Processor		Features	
Processor manufacturer *	Intel	Images Type Map	<input type="checkbox"/>
Processor model *	E5-2470	<b>Processor special features</b>	
Processor base frequency *	2.3 GHz	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor family *	Intel® Xeon® E5 Family	Intel® Identity Protection Technology (Intel® IPT)	✗
Processor cores *	8	Intel® Turbo Boost Technology	2.0
Processor socket *	LGA 1356 (Socket B2)	Intel Flex Memory Access	✗
Component for	Server/workstation	Intel® Smart Cache	✓
Processor lithography *	32 nm	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor series	Intel Xeon E5-2400	Enhanced Intel SpeedStep Technology	✓
Processor threads	16	Intel Trusted Execution Technology	✓
System bus rate	8 GT/s	Intel® Turbo Boost Technology 2.0 frequency	3.1 GHz
Processor operating modes *	64-bit	Intel Enhanced Halt State	✓
Processor boost frequency	3.1 GHz	Intel VT-x with Extended Page Tables (EPT)	✓
Processor cache	20 MB	Intel Demand Based Switching	✓
Processor cache type	Smart Cache	Intel 64	✓
L3 cache speed	2.3 GHz	Intel Identity Protection Technology version	0.00
Thermal Design Power (TDP)	95 W	Intel Virtualization Technology (VT-x)	✓
Box *	✗	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Cooler included *	✗	Conflict-Free processor	✗
VID Voltage Range	0.6 - 1.35 V	Intel® vPro™ Platform Eligibility	✓
Compatible chipsets	Intel® C602, Intel® C602J, Intel® C604, Intel® C606, Intel C608	<b>Operational conditions</b>	
Stepping	C2	Tcase	78 °C
Bus type	QPI	<b>Technical details</b>	
Number of QPI links	1	Bus bandwidth	8
Memory bandwidth supported by processor (max)	38.4 GB/s		
Processor codename	Sandy Bridge EN		
Processor code	SR0LG		
Processor ARK ID	64623		
<b>Memory</b>			
Maximum internal memory supported by processor	384 GB		

Memory		Technical details	
Memory types supported by processor	DDR3-SDRAM	Bus type units	GT/s
Memory clock speeds supported by processor	800,1066,1333,1600 MHz	Launch date	Q2'12
Memory channels *	Triple-channel	Processor cache	20480 KB
ECC	✓	Product type	Processor
<b>Graphics</b>		Status	Discontinued
On-board graphics card *	✗	Maximum memory	384 GB
<b>Features</b>		Processor brand name	Intel Xeon
Execute Disable Bit	✓	Supported memory types	DDR3-SDRAM
Idle States	✓	Last change	63903513
Thermal Monitoring Technologies	✓	Product family	Intel Xeon Processor E5 Family
Market segment	Server	Bus speed	8 GT/s
Maximum number of PCI Express lanes	24	<b>Logistics data</b>	
PCI Express slots version	3.0	Harmonized System (HS) code	8542310001
Supported instruction sets	AVX	<b>Packaging data</b>	
Scalability	2S	Package type	Retail box
CPU configuration (max)	2	<b>Weight &amp; dimensions</b>	
Embedded options available	✗	Processor package size	45mm x 42.5mm
PCI Express CEM revision	3.0	<b>Other features</b>	
Export Control Classification Number (ECCN)	5A992C	Intel® Virtualization Technology (Intel® VT)	VT-d, VT-x
Commodity Classification Automated Tracking System (CCATS)	G077159	Maximum internal memory	384 GB
		Maximum internal memory	393216 MB

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: 22-DEC-2023. Prints or copies of Information are only valid on the printed Publication date