

English

X3470

Home

Intel® Processors

Intel® Xeon® Processor 3000 Sequence

Intel® Xeon® Processor 3400 Series



Intel® Xeon® Processor X3470 (8M Cache, 2.93 GHz)

SPECIF	ICATIONS
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All

Essentials

Memory Specifications

Graphics Specifications

Expansion Options

Package Specifications

Advanced Technologies

COMPATIBLE PRODUCTS

BLOCK DIAGRAMS

ORDERING / SSPECS / STEPPINGS

Specifications

Specifications		
Essentials		
Status		Launched
Launch Date		Q3'09
Processor Number		X3470
# of Cores		4
# of Threads		8
Clock Speed		2.93 GHz
Max Turbo Frequency		3.6 GHz
Intel® Smart Cache		8 MB
Bus/Core Ratio		22
DMI		2.5 GT/s
Instruction Set		64-bit
Instruction Set Extensions		SSE4.2
Embedded Options Available	P	No
Lithography		45 nm
Max TDP		95 W
VID Voltage Range		0.6500V-1.4000V
Mennony Sjedcincanen Srice		
		32 GB
Max Memory Size (dependent on memory type)		DDR3-800/1066/1333
Memory Types		2
# of Memory Channels		21 GB/s
Max Memory Bandwidth		36-bit
Physical Address Extensions		Yes
GCC Memory Supported ons	A	
		No
Integrated Graphics Expansion Options	A	
Ехранзіон Орнона		2.0
DOI Firence Projector		2.0
PCI Express Revision		1x16, 2x8, 4x4
PCI Express Configurations	A	1
PacRage Specifications		
		1
Max CPU Configuration		72.7°C
TCASE		37.5mm x 37.5mm
Package Size		296 mm ²
Processing Die Size		774 million
# of Processing Die Transistors		LGA1156
Sockets Supported		See MDDS
Low Halogen Options Available		

COMPARE PRODUCTS

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QUICK LINKS

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ADDITIONAL INFORMATION

SUPPORT AND DOWNLOADS

Software Downloads >

Support Overview >

SEARCH DISTRIBUTORS >

PCN/MDDS INFORMATION

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Advanced Technologies	
Intel® Turbo Boost Technology	Yes
Intel® vPro Technology	No
Intel® Hyper-Threading Technology	Yes
Intel® Virtualization Technology (VT-x)	Yes
Intel® Virtualization Technology for Directed I/O (VT-d)	Yes
Intel® Trusted Execution Technology	Yes
AES New Instructions	No
Intel® 64	Yes
Idle States	Yes
Enhanced Intel SpeedStep® Technology	Yes
Intel® Demand Based Switching	Yes
Thermal Monitoring Technologies	No
Execute Disable Bit	Yes

"Announced" SKUs are not yet available. Please refer to the Launch Date for market availability.

The Recommended Customer Price ("RCP") is pricing guidance for Intel products. Prices are for direct Intel customers and are subject to change without notice. Taxes and shipping, etc. not included. Prices may vary for other package types and shipment quantities, and special promotional arrangements may apply. Listing of these RCP does not constitute a formal pricing offer from Intel. Please work with your appropriate Intel representative to obtain a formal price quotation.

Enabling Execute Disable Bit functionality requires a PC with a processor with Execute Disable Bit capability and a supporting operating system. Check with your PC manufacturer on whether your system delivers Execute Disable Bit functionality.

64-bit computing on Intel® architecture requires a computer system with a processor, chipset, BIOS, operating system, device drivers and applications enabled for Intel® 64 architecture. Processors will not operate (including 32-bit operation) without an Intel 64 architecture-enabled BIOS. Performance will vary depending on your hardware and software configurations. Consult with your system vendor for more information.

Hyper-Threading Technology (HT Technology) requires a computer system with an Intel® processor supporting HT Technology and an HT Technology enabled chipset, BIOS and operating system. Performance will vary depending on the specific hardware and software you use. See www.intel.com/products/ht/hyperthreading_more.htm for more information including details on which processors support HT Technology.

Intel® Virtualization Technology requires a computer system with a processor, chipset, BIOS, virtual machine monitor (VMM) and for some uses, certain platform software, enabled for it. Functionality, performance or other benefit will vary depending on hardware and software configurations. Intel Virtualization Technology-enabled VMM applications are currently in development.

Intel processor numbers are not a measure of performance. Processor numbers differentiate features within each processor family, not across different processor families. See http://www.intel.com/products/processor_number for details.

System and Maximum TDP is based on worst case scenarios. Actual TDP may be lower if not all VOs for chipsets are used.

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Low Halogen: Applies only to brominated and chlorinated flame retardants (BFRs/CFRs) and PVC in the final product. Intel components as well as purchased components on the finished assembly meet JS-709 requirements, and the PCB / substrate meet IEC 61249-2-21 requirements. The replacement of halogenated flame retardants and/or PVC may not be better for the environment.

Max Turbo Frequency refers to the maximum single-core frequency that can be achieved with Intel® Turbo Boost Technology, which requires a PC with a processor with Intel Turbo Boost Technology capability. Intel Turbo Boost Technology performance varies depending on hardware, software, and overall system configuration. Check with your PC manufacturer on whether your system delivers Intel Turbo Boost Technology. See www.intel.com/technology/turboboost/ for more information.

Some products can support AES New Instructions with a Processor Configuration update, in particular, i7-2630QM/i7-2635QM, i7-2670QM/i7-2675QM, i5-2430M/i5-2435M, i5-2410M/i5-2415M. Please contact OEM for the BIOS that includes the latest Processor configuration update.

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