Support Home > Product Specifications > Processors

(intel)

Search specifications

(intel) XEON Inside

Intel[®] Xeon[®] Processor E5630

12M Cache, 2.53 GHz, 5.86 GT/s Intel® QPI

	Essentials	Export specifications
	Product Collection	Legacy Intel® Xeon® Processors
n	Code Name	Products formerly Westmere EP
	Vertical Segment	Server
	Processor Number	E5630
	Status	Discontinued
	Launch Date 🕐	Q1'10
	Lithography 🕐	32 nm
	Recommended Customer Price 🕡	-

Performance

# of Cores 👔	4
# of Threads (?	8
Processor Base Frequency 🕐	2.53 GHz
Max Turbo Frequency 👔	2.80 GHz
Cache 🕐	12 MB SmartCache
Bus Speed 🕐	5.86 GT/s QPI
# of QPI Links 👔	2
TDP 🕐	80 W
VID Voltage Range 🕐	0.750V-1.350V

Supplemental Information

Embedded Options Available 👔	No
Datasheet	View now

Memory Specifications

Max Memory Size (dependent on memory type) 🕜	288 GB
Memory Types (DDR3 800/1066
Max # of Memory Channels 🕐	3
Max Memory Bandwidth 🕐	25.6 GB/s
Physical Address Extensions 🥡	40-bit
ECC Memory Supported ‡ 👔	Yes

Specifications Essentials

Performance Supplemental Information Memory Specifications Package Specifications Advanced Technologies Security & Reliability

Ordering and Compliance

Product Images

Compatible Products

Downloads and Software

Package Specifications

Sockets Supported 🕐	FCLGA1366
Max CPU Configuration	2
T _{CASE} (?)	77.6°C
Package Size	42.5mm X 45mm

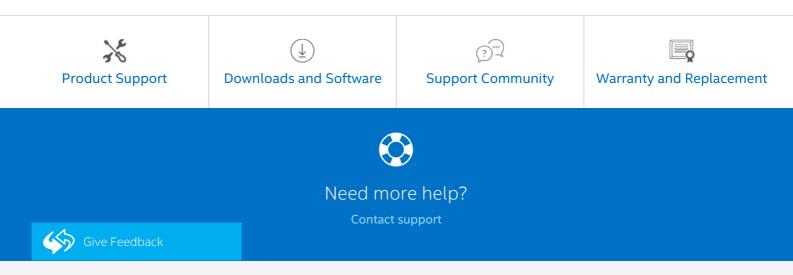
Advanced Technologies

Intel® Turbo Boost Technology ‡ 👔	1.0
Intel® Hyper-Threading Technology ‡ 👔	Yes
Intel® Virtualization Technology (VT-x) ‡ 🕐	Yes
Intel® Virtualization Technology for Directed I/O (VT-d) ‡ 🕐	Yes
Intel $^{\circ}$ VT-x with Extended Page Tables (EPT) ‡ 🕐	Yes
Intel® 64 ‡ 🕐	Yes
Instruction Set 🕐	64-bit
Instruction Set Extensions (?)	Intel® SSE4.2
Idle States 👔	Yes
Enhanced Intel SpeedStep® Technology 👔	Yes
Intel® Demand Based Switching 🕡	Yes
Thermal Monitoring Technologies (?)	No
Security & Reliability	
Intel® AES New Instructions 👔	Yes
Intel® Trusted Execution Technology ‡ 🕐	Yes

Yes

More support options for Intel® Xeon® Processor E5630 (12M Cache, 2.53 GHz, 5.86 GT/s Intel® QPI)

Execute Disable Bit ‡ 🕐



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Refer to Datasheet for formal definitions of product properties and features.

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

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.

‡ This feature may not be available on all computing systems. Please check with the system vendor to determine if your system delivers this feature, or reference the system specifications (motherboard, processor, chipset, power supply, HDD, graphics controller, memory, BIOS, drivers, virtual machine monitor-VMM, platform software, and/or operating system) for feature compatibility. Functionality, performance, and other benefits of this feature may vary depending on system configuration.

See http://www.intel.com/content/www/us/en/architecture-and-technology/hyper-threading/hyper-threading-technology.html? wapkw=hyper+threading for more information including details on which processors support Intel® HT Technology.

Max Turbo Frequency refers to the maximum single-core processor frequency that can be achieved with Intel® Turbo Boost Technology. See www.intel.com/technology/turboboost/ for more information.

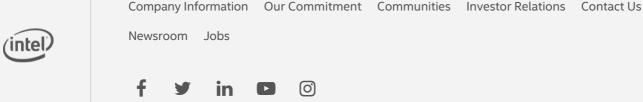
The Recommended Customer Price ("RCP") is pricing guidance for Intel products. Prices are for direct Intel customers, typically represent 1,000-unit purchase quantities, and are subject to change without notice. Taxes and shipping, etc. not included. Prices may vary for other package types and shipment quantities, and special promotional arrangements may apply. If sold in bulk, price represents individual unit. 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.

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

For benchmarking data see http://www.intel.com/performance.

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/content/www/us/en/processors/processor-numbers.html for details.

Processors that support 64-bit computing on Intel® architecture require an Intel 64 architecture-enabled BIOS.



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6