




## Intel® Xeon® Processor X3430 (8M Cache, 2.40 GHz)

### Specifications

#### - Essentials

Status	Launched
Launch Date	Q3'09
Processor Number	X3430
Intel® Smart Cache	8 MB
DMI	2.5 GT/s
Instruction Set	64-bit
Instruction Set Extensions	SSE4.2
Embedded Options Available	 Yes
Lithography	45 nm
VID Voltage Range	0.6500V-1.4000V
Recommended Customer Price	TRAY: \$224.00 BOX : \$203.00
Datasheet	<a href="#">Link</a>
Additional Information URL	<a href="#">Link</a>

#### - Performance

# of Cores	4
# of Threads	4
Processor Base Frequency	2.4 GHz
Max Turbo Frequency	2.8 GHz
TDP	95 W

#### - Memory Specifications










Max Memory Size (dependent on memory type)	32 GB
Memory Types	DDR3 800/1066/1333
Max # of Memory Channels	2
Max Memory Bandwidth	21 GB/s
Physical Address Extensions	36-bit
ECC Memory Supported ‡	 Yes

#### - Expansion Options

PCI Express Revision	2.0
PCI Express Configurations ‡	1x16, 2x8, 4x4
Max # of PCI Express Lanes	16

#### - Package Specifications

Max CPU Configuration	1
T <sub>CASE</sub>	72.7°C
Package Size	37.5mm x 37.5mm

Processing Die Size	296 mm <sup>2</sup>
# of Processing Die Transistors	774 million
Sockets Supported	LGA1156
Low Halogen Options Available	See MDDS
- Advanced Technologies	
Intel® Turbo Boost Technology ‡	1.0
Intel® vPro Technology ‡	 No
Intel® Hyper-Threading Technology ‡	 No
Intel® Virtualization Technology (VT-x) ‡	Yes
Intel® Virtualization Technology for Directed I/O (VT-d) ‡	 Yes
Intel® VT-x with Extended Page Tables (EPT) ‡	 Yes
Intel® 64 ‡	 Yes
Idle States	Yes
Enhanced Intel SpeedStep® Technology	 Yes
Intel® Demand Based Switching	 Yes
Thermal Monitoring Technologies	No
- Intel® Data Protection Technology	
Intel® AES New Instructions	 No
- Intel® Platform Protection Technology	
Trusted Execution Technology ‡	 Yes
Execute Disable Bit ‡	Yes

## Compatible Products

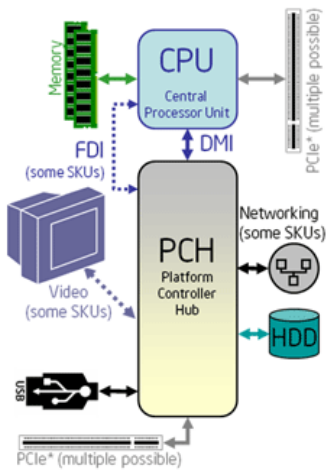
- Chipsets						
Compare	Product Name	Status	Embedded Options Available	TDP	Recommended Customer Price	
Compare All +						
	<a href="#">Intel® 3450 Chipset (Intel® BD3450 PCH)</a>	Launched	Yes	5.9 W	T&R : \$44.00	
	<a href="#">Intel® 3400 Chipset (Intel® BD3400 PCH)</a>	Launched	No		N/A	
	<a href="#">Intel® 3420 Chipset (Intel® BD3420 PCH)</a>	Launched	Yes		T&R : \$31.00	

- System					
Compare	Product Name	Status	Chassis Form Factor	Board Form Factor	Socket
Compare All +					
	<a href="#">Intel® Server System SR1630GP</a>	End of Life	1U Rack		LGA1156
	<a href="#">Intel® Server System SR1630GPRX</a>	End of Life	1U Rack		LGA1156
	<a href="#">Intel® Server System SR1695GPRX1AC</a>	End of Life	1U Rack		LGA1156
	<a href="#">Intel® Server System SR1695GPRX2AC</a>	End of Life	1U Rack		LGA1156
	<a href="#">Intel® Server System SR1630HGP</a>	End of Life	1U Rack		LGA1156
	<a href="#">Intel® Server System SR1630HGPRX</a>	End of Life	1U Rack		LGA1156

- Server/Workstation Board

Compare Compare All +	Product Name	Status	Board Form Factor	Chassis Form Factor	Socket	Embedded Options Available	TDP
	<a href="#">Intel® Server Board S3420GPLC</a>	End of Life	ATX	Rack or Pedestal	LGA1156	Yes	
	<a href="#">Intel® Server Board S3420GPLX</a>	End of Life	ATX	Rack or Pedestal	LGA1156	Yes	
	<a href="#">Intel® Server Board S3420GPRX</a>	End of Life	ATX	Rack	LGA1156	Yes	
	<a href="#">Intel® Server Board S3420GPV</a>	End of Life	ATX	Rack or Pedestal	LGA1156		

Product Images



Ordering and Spec Information

Trade Compliance Information

ECCN	CCATS	US HTS
5A992	NA	8542310000-HYBRD

Ordering and Spec Information

Spec Code	Ordering Code	Step	RCP
Intel® Xeon® Processor X3430 (8M Cache, 2.40 GHz) FC-LGA8, Tray			
SLBLJ	BV80605001914AG	B1	\$224.00

Retired and Discontinued

Spec Code	Ordering Code	Step	RCP
Boxed Intel® Xeon® Processor X3430 (8M Cache, 2.40 GHz) FC-LGA8			
SLBLJ	BX80605X3430	B1	\$203.00

Download Drivers

[BIOS Implementation Test Suite \(BITS\)](#)  
 BITS provides a bootable pre-OS environment for testing BIOSes and in particular their initialization of Intel® Processors, hardware, and technologies  
**Version:** Build 2073 (Latest) **Date:** 2/10/2016  
**Operating Systems:** OS Independent

[Intel® Processor Diagnostic Tool](#)  
 The Intel® Processor Diagnostic Tool release 3.0.25 is compatible with multiprocessor systems

 The Intel® Processor Diagnostic Tool release 3.0.0.25 is compatible with multiprocessor systems.

**Version:** 3.0.0.25 (Latest)

**Date:** 1/25/2016

**Operating Systems:** Linux\*, Windows 7\*, Windows 8\*, 5 more

 [Intel® Processor Identification Utility - Windows\\* Version](#)

Version 5.40 of the Intel® Processor Identification Utility is provided by Intel to identify characteristics of a processor inside a system.

**Version:** 5.40 (Latest)

**Date:** 12/23/2015

**Operating Systems:** Windows 2000\*, Windows 7\*, Windows 8\*, 8 more

 [Intel® Processor Identification Utility - Bootable Version](#)

The Intel® Processor Identification Utility is provided by Intel to identify characteristics of a processor inside a system.

**Version:** 5.30 (Latest)

**Date:** 9/11/2015

**Operating Systems:** OS Independent

 [Linux\\* Processor Microcode Data File](#)

The microcode data file contains the latest microcode definitions for all Intel processors. Intel periodically releases these microcode updates.

**Version:** 20150121 (Latest)

**Date:** 1/27/2015

**Operating Systems:** Caldera Linux\*, Chromium OS\*, Debian 3.1 Linux\*, 91 more

 [Linux\\* Processor Microcode Data File](#)

The microcode data file contains the latest microcode definitions for all Intel processors. Intel periodically releases these microcode updates.

**Version:** 20150107 (Latest)

**Date:** 1/13/2015

**Operating Systems:** Caldera Linux\*, Chromium OS\*, Debian 3.1 Linux\*, 89 more

 [Linux\\* Processor Microcode Data File](#)

The microcode data file contains the latest microcode definitions for all Intel processors. Intel periodically releases these microcode updates.

**Version:** 20140913 (Latest)

**Date:** 9/15/2014

**Operating Systems:** Caldera Linux\*, Chromium OS\*, Debian 3.1 Linux\*, 82 more

 [Linux\\* Processor Microcode Data File](#)

The microcode data file contains the latest microcode definitions for all Intel processors. Intel periodically releases these microcode updates.

**Version:** 20140122 (Latest)

**Date:** 2/24/2014

**Operating Systems:** Caldera Linux\*, Chromium OS\*, Debian 3.1 Linux\*, 80 more

 [Display Drivers for Intel® Core™ Processors on 64-bit Windows 7\\* and Windows Embedded Standard 7\\*](#)

Intel® HD Graphics, Intel® Display Audio Driver, and Intel® Turbo Boost Technology for Intel® processors on 64-bit Windows 7\*.

**Version:** 15.22.54.64.2622 (Current)

**Date:** 3/22/2013

**Operating Systems:** Windows 7, 64-bit\*, Windows Embedded Standard 7\*

 [TnT Hardware Tools SW Updates DB](#)

This is the rev of the DB that is already present on the InstallShield-like service.

**Version:** 5 (Current)

**Date:** 11/14/2011

**Operating Systems:** Windows XP Professional\*

 [Linux\\* Processor Microcode Data File](#)

The microcode data file contains the latest microcode definitions for all Intel processors. Intel periodically releases these microcode updates.

**Version:** 20140624 (Previously Released)

**Date:** 9/17/2014

**Operating Systems:** Linux\*

 [Linux\\* Processor Microcode Data File](#)

The microcode data file contains the latest microcode definitions for all Intel processors. Intel periodically releases these microcode updates.

**Version:** 20140430 (Previously Released)

**Date:** 9/15/2014

**Operating Systems:** Linux\*

 [Linux\\* Processor Microcode Data File](#)

The microcode data file contains the latest microcode definitions for all Intel processors.

**Version:** 20130906 (Previously Released) **Date:** 9/10/2013

**Operating Systems:** Caldera Linux\*, Chromium OS\*, Debian 3.1 Linux\*, 80 more

 [Linux\\* Processor Microcode Data File](#)

The microcode data file contains the latest microcode definitions for all Intel processors. Intel periodically releases these microcode updates.

**Version:** 20130808 (Previously Released)

**Date:** 8/14/2013

**Operating Systems:** Caldera Linux\*, Chromium OS\*, Debian 3.1 Linux\*, 80 more

**Linux\* Processor Microcode Data File**

The microcode data file contains the latest microcode definitions for all Intel processors.

**Version:** 20130222 (Previously Released) **Date:** 2/26/2013

**Operating Systems:** Caldera Linux\*, Chromium OS\*, Debian 3.1 Linux\*, 75 more

**Linux\* Processor Microcode Data File**

The microcode data file contains the latest microcode definitions for all Intel processors. Intel periodically releases these microcode updates.

**Version:** 20120606-v2 (Previously Released)

**Date:** 10/1/2012

**Operating Systems:** Caldera Linux\*, Debian 3.1 Linux\*, Debian Linux\*, 73 more

**Linux\* Processor Microcode Data File**

The microcode data file contains the latest microcode definitions for all Intel processors. Intel periodically releases these microcode updates.

**Version:** 20120606 (Previously Released)

**Date:** 6/6/2012

**Operating Systems:** Caldera Linux\*, Debian 3.1 Linux\*, Debian Linux\*, 73 more

**Linux\* Processor Microcode Data File**

The microcode data file contains the latest microcode definitions for all Intel processors.

**Version:** 20111110 (Previously Released) **Date:** 2/29/2012

**Operating Systems:** Caldera Linux\*, Debian 3.1 Linux\*, Debian Linux\*, 71 more

**Linux\* Processor Microcode Data File**

The microcode data file contains the latest microcode definitions for all Intel processors.

**Version:** 20110915 (Previously Released) **Date:** 11/14/2011

**Operating Systems:** Caldera Linux\*, Debian 3.1 Linux\*, Debian Linux\*, 71 more

**Linux\* Processor Microcode Data File**

The microcode data file contains the latest microcode definitions for all Intel processors.

**Version:** 20110428 (Previously Released) **Date:** 11/14/2011

**Operating Systems:** Caldera Linux\*, Debian 3.1 Linux\*, Debian Linux\*, 71 more

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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.

"Conflict free" and "conflict-free" means "DRC conflict free", which is defined by the U.S. Securities and Exchange Commission rules to mean products that do not contain conflict minerals (tin, tantalum, tungsten and/or gold) that directly or indirectly finance or benefit armed groups in the Democratic Republic of the Congo (DRC) or adjoining countries. Intel also uses the term "conflict-free" in a broader sense to refer to suppliers, supply chains, smelters and refiners whose sources of conflict minerals do not finance conflict in the DRC or adjoining countries. Intel processors manufactured before January 1, 2013 are not confirmed conflict free. The conflict free designation refers only to product manufactured after that date. For Intel Boxed Processors, the conflict free designation refers to the processor only, not to any additional included accessories, such as heatsinks/coolers.

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/](http://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.

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.

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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