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	Link
Additional Information URL	Link

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_{CASE}	72.7°C
Package Size	37.5mm x 37.5mm

Processing Die Size	296 mm^2
# 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 +					
	Intel® 3450 Chipset (Intel® BD3450 PCH)	Launched	Yes	5.9 W	T&R : $44.00
	Intel® 3400 Chipset (Intel® BD3400 PCH)	Launched	No		N/A
	Intel® 3420 Chipset (Intel® BD3420 PCH)	Launched	Yes		T&R : $31.00

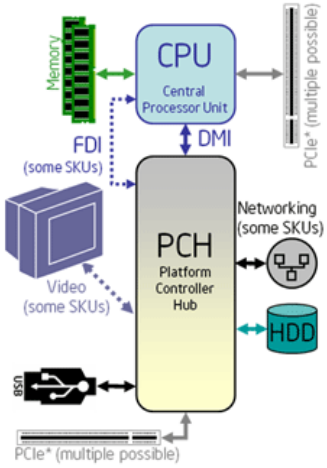
System

Compare	Product Name	Status	Chassis Form Factor	Board Form Factor	Socket
Compare All +					
	Intel® Server System SR1630GP	End of Life	1U Rack		LGA1156
	Intel® Server System SR1630GPRX	End of Life	1U Rack		LGA1156
	Intel® Server System SR1695GPRX1AC	End of Life	1U Rack		LGA1156
	Intel® Server System SR1695GPRX2AC	End of Life	1U Rack		LGA1156
	Intel® Server System SR1630HGP	End of Life	1U Rack		LGA1156
	Intel® Server System SR1630HGPRX	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
	Intel® Server Board S3420GPLC	End of Life	ATX	Rack or Pedestal	LGA1156	Yes	
	Intel® Server Board S3420GPLX	End of Life	ATX	Rack or Pedestal	LGA1156	Yes	
	Intel® Server Board S3420GPRX	End of Life	ATX	Rack	LGA1156	Yes	
	Intel® Server Board S3420GPV	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 3.0.0.25 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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