

Intel® Core™2 Quad Processor Q9400 (6M Cache, 2.66 GHz, 1333 MHz FSB)

Specifications

- Essentials

Processor Number	Q9400
Status	End of Interactive Support
Launch Date	Q3'08
Lithography	45 nm
Recommended Customer Price	\$180.00 - \$200.00

- Performance

# of Cores	4
Processor Base Frequency	2.66 GHz
Cache	6 MB L2
Bus Speed	1333 MHz FSB
FSB Parity	No
TDP	95 W
VID Voltage Range	0.8500V-1.3625V

- Supplemental Information





Embedded Options Available	 Yes
Datasheet	Link
Conflict Free	Yes

- Package Specifications

Sockets Supported	LGA775
T _{CASE}	71.4°C
Package Size	37.5mm x 37.5mm
Processing Die Size	164 mm ²
# of Processing Die Transistors	456 million
Low Halogen Options Available	See MDDS

- Advanced Technologies

Intel® Turbo Boost Technology ‡	No
Intel® Hyper-Threading Technology ‡	 No
Intel® Virtualization Technology (VT-x) ‡	Yes
Intel® Virtualization Technology for Directed I/O (VT-d) ‡	 Yes
Intel® 64 ‡	 Yes

Instruction Set	64-bit
Idle States	Yes
Enhanced Intel SpeedStep® Technology	 Yes
Intel® Demand Based Switching	 No
Thermal Monitoring Technologies	Yes
- Intel® Data Protection Technology	
Intel® AES New Instructions	 No
- Intel® Platform Protection Technology	
Trusted Execution Technology ‡	 Yes
Execute Disable Bit ‡	Yes

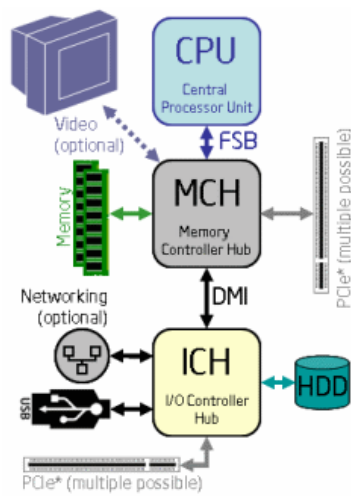
Compatible Products

Find Compatible Desktop Boards >

- Server/Workstation Board							
Compare Compare All +	Product Name	Status	Board Form Factor	Chassis Form Factor	Socket	Embedded Options Available	TDP
	Intel® Server Board BSHBBL	End of Life	ATX	Rack	LGA775		
	Intel® Server Board S3200SHV	End of Life	ATX	Rack or Pedestal	LGA775	Yes	
	Intel® Server Board S3210SHLC	End of Life	ATX	Rack or Pedestal	LGA775	Yes	
	Intel® Server Board S3210SHLX	End of Life	ATX	Rack or Pedestal	LGA775	Yes	

- System					
Compare	Product Name	Status	Chassis Form Factor	Board Form Factor	Socket
	Intel® Server System SR1530SH	End of Life	1U Rack		LGA775

Product Images



Ordering and Spec Information

Trade Compliance Information

ECCN	CCATS	US HTS
3A991	NA	8542310000-HYBRD


Ordering and Spec Information

Spec Code	Ordering Code	Step	RCP
Intel® Core™2 Quad Processor Q9400 (6M Cache, 2.66 GHz, 1333 MHz FSB) LGA775, Tray			
SLB6B	AT80580PJ0676M	R0	\$180.00


Retired and Discontinued

Spec Code	Ordering Code	Step	RCP
Boxed Intel® Core™2 Quad Processor Q9400 (6M Cache, 2.66 GHz, 1333 MHz FSB) LGA775			
SLB6B	BX80580Q9400	R0	\$200.00


Download Drivers

[Intel® Processor Diagnostic Tool](#)

This download installs the Intel® Processor Diagnostic Tool release 4.0.0.29, which is compatible with multiprocessor systems.
Version: 4.0.0.29 (Latest) **Date:** 12/17/2016
Operating Systems: Windows 7*, Windows Server 2008 R2*, Windows 8*, 3 more

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

This download installs version 5.60 of the Intel® Processor Identification Utility for Windows*.
Version: 5.60 (Latest) **Date:** 12/8/2016
Operating Systems: Windows Vista*, Windows Server 2008*, Windows XP*, 7 more

[BIOS Implementation Test Suite \(BITS\)](#)

This download installs version build 2073 of the BIOS Implementation Test Suite (BITS).
Version: Build 2073 (Latest) **Date:** 2/2/2016
Operating Systems: OS Independent



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: 8/13/2015

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 (Previously Released)

Date: 1/21/2015

Operating Systems: Turbolinux*, Red Hat Desktop 3 Update 4*, Red Hat Desktop Linux 3*, 90 more



Linux* Processor Microcode Data File

The microcode data file 20150107 for Linux* contains the latest microcode definitions for all Intel® Processors. Intel periodically releases these microcode updates.

Version: 20150107 (Previously Released)

Date: 1/7/2015

Operating Systems: Turbolinux*, Red Hat Desktop 3 Update 4*, Red Hat Desktop Linux 3*, 88 more



Linux* Processor Microcode Data File

The microcode data file 20140913 for Linux* contains the latest microcode definitions for all Intel® Processors. Intel periodically releases these microcode updates.

Version: 20140913 (Previously Released)

Date: 9/15/2014

Operating Systems: Red Hat Desktop 3 Update 4*, Red Hat Desktop Linux 3*, Red Hat Enterprise Linux 2.1*, 81 more



Linux* Processor Microcode Data File

The microcode data file 20140624 for Linux* contains the latest microcode definitions for all Intel® Processors. Intel periodically releases these microcode updates.

Version: 20140624 (Previously Released)

Date: 6/24/2014

Operating Systems: Linux*



Linux* Processor Microcode Data File

The microcode data file 20140430 for Linux* contains the latest microcode definitions for all Intel® Processors. Intel periodically releases these microcode updates.

Version: 20140430 (Previously Released)

Date: 4/30/2014

Operating Systems: Linux*



Linux* Processor Microcode Data File

The microcode data file 20140122 for Linux* contains the latest microcode definitions for all Intel® Processors. Intel periodically releases these microcode updates.

Version: 20140122 (Previously Released)

Date: 1/22/2014

Operating Systems: Turbolinux*, Red Hat Desktop 3 Update 4*, Red Hat Desktop Linux 3*, 79 more



Linux* Processor Microcode Data File

The microcode data file 20130906 for Linux* contains the latest microcode definitions for all Intel® Processors. Intel periodically releases these microcode updates.

Version: 20130906 (Previously Released)

Date: 9/6/2013

Operating Systems: Turbolinux*, Red Hat Desktop 3 Update 4*, Red Hat Desktop Linux 3*, 79 more



Linux* Processor Microcode Data File

The microcode data file 20130808 for Linux* 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: Turbolinux*, Red Hat Desktop 3 Update 4*, Red Hat Desktop Linux 3*, 79 more



Linux* Processor Microcode Data File

The microcode data file 20130222 for Linux* contains the latest microcode definitions for all Intel® Processors. Intel periodically releases these microcode updates.

Version: 20130222 (Previously Released)

Date: 2/25/2013

Operating Systems: Turbolinux*, Red Hat Desktop 3 Update 4*, Red Hat Desktop Linux 3*, 74 more

**Linux* Processor Microcode Data File**

The microcode data file 20120606-v2 for Linux* 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: Turbolinux*, Red Hat Desktop 3 Update 4*, Red Hat Desktop Linux 3*, 72 more

**Linux* Processor Microcode Data File**

The microcode data file 20120606 for Linux* 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: Turbolinux*, Red Hat Desktop 3 Update 4*, Red Hat Desktop Linux 3*, 72 more

**Linux* Processor Microcode Data File**

The microcode data file 20111110 for Linux* contains the latest microcode definitions for all Intel® Processors. Intel periodically releases these microcode updates.

Version: 20111110 (Previously Released)

Date: 12/12/2011

Operating Systems: Turbolinux*, Red Hat Desktop 3 Update 4*, Red Hat Desktop Linux 3*, 70 more

**Linux* Processor Microcode Data File**

The microcode data file 20110915 for Linux* contains the latest microcode definitions for all Intel® Processors.

Version: 20110915 (Previously Released)

Date: 9/13/2011

Operating Systems: Turbolinux*, Red Hat Desktop 3 Update 4*, Red Hat Desktop Linux 3*, 70 more

**Linux* Processor Microcode Data File**

The microcode data file 20110428 for Linux* contains the latest microcode definitions for all Intel® Processors.

Version: 20110428 (Previously Released)

Date: 4/24/2011

Operating Systems: Turbolinux*, Red Hat Desktop 3 Update 4*, Red Hat Desktop Linux 3*, 70 more

**Linux* Processor Microcode Data File**

The microcode data file 20101123 for Linux* contains the latest microcode definitions for all Intel® Processors.

Version: 20101123 (Previously Released)

Date: 11/20/2010

Operating Systems: Turbolinux*, Red Hat Desktop 3 Update 4*, Red Hat Desktop Linux 3*, 70 more

**Linux* Processor Microcode Data File**

The microcode data file 20100914 for Linux* contains the latest microcode definitions for all Intel® Processors.

Version: 20100914 (Previously Released)

Date: 9/11/2010

Operating Systems: Turbolinux*, Red Hat Desktop 3 Update 4*, Red Hat Desktop Linux 3*, 70 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/ 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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