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Intel® Processors

3rd Generation Intel® Core™ i7 Processors

Intel® Core™ i7-3700 Desktop Processor Series

i7-3770



Intel® Core™ i7-3770 Processor (8M Cache, up to 3.90 GHz)

SPECIFICATIONS[All](#)[Essentials](#)[Memory Specifications](#)[Graphics Specifications](#)[Expansion Options](#)[Package Specifications](#)[Advanced Technologies](#)**COMPATIBLE PRODUCTS****BLOCK DIAGRAMS****ORDERING / SSPECS / STEPPINGS****Specifications****Essentials**

Status	Launched
Launch Date	Q2'12
Processor Number	i7-3770
# of Cores	4
# of Threads	8
Clock Speed	3.4 GHz
Max Turbo Frequency	3.9 GHz
Intel® Smart Cache	8 MB
Bus/Core Ratio	34
DMI	5 GT/s
Instruction Set	64-bit
Instruction Set Extensions	SSE4.1/4.2, AVX
Embedded Options Available	Yes
Lithography	22 nm
Max TDP	77 W
Recommended Customer Price	\$294 - \$305

Memory Specifications

Max Memory Size (dependent on memory type)	32 GB
Memory Types	DDR3-1333/1600
# of Memory Channels	2
Max Memory Bandwidth	25.6 GB/s
ECC Memory Supported	No

Graphics Specifications

Processor Graphics	Intel® HD Graphics 4000
Graphics Base Frequency	650 MHz
Graphics Max Dynamic Frequency	1.15 GHz
Intel® Quick Sync Video	Yes
Intel® InTru™ 3D Technology	Yes
Intel® Insider™	Yes
Intel® Wireless Display	Yes
Intel® Flexible Display Interface (Intel® FDI)	Yes
Intel® Clear Video HD Technology	Yes

Expansion Options

PCI Express Revision	3.0
# of PCI Express Ports	1

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ADDITIONAL INFORMATION**PCN/MDDS INFORMATION****SR0PK**

920818: [MDDS](#)
 920501: [MDDS](#)
 919976: [PCN](#) | [MDDS](#)

Package Specifications

*Trademarks

Max CPU Configuration	1
Package Size	37.5mm x 37.5mm
Sockets Supported	FCLGA1155
Low Halogen Options Available	See MDDs

Advanced Technologies

Intel® Turbo Boost Technology	2.0
Intel® vPro Technology	Yes
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	 Yes
Intel® 64	 Yes
Intel® Anti-Theft Technology	Yes
Idle States	Yes
Enhanced Intel SpeedStep® Technology	 Yes
Thermal Monitoring Technologies	Yes
Intel® Fast Memory Access	Yes
Intel® Flex Memory Access	Yes
Execute Disable Bit	Yes

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

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.

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

All information provided is subject to change at any time, without notice. Intel may make changes to manufacturing life cycle, specifications, and product descriptions at any time, without notice. The information herein is provided "as-is" and Intel does not make any representations or warranties whatsoever regarding accuracy of the information, nor on the product features, availability, functionality, or compatibility of the products listed. Please contact system vendor for more information on specific products or systems.

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.

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.

"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.

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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.

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.

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.

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.

Enabling Execute Disable Bit functionality requires a PC with a processor with Execute



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COMPATIBLE PRODUCTS

BLOCK DIAGRAMS

ORDERING / SSPECS / STEPPINGS

All

Ordering / sSpecs / Steppings

Retired and Discontinued

ORDERING AND SPEC INFORMATION

Ordering and Spec Information

Intel® Core™ i7-3770 Processor (8M Cache, up to 3.90 GHz) FC-LGA12C, Tray

Socket	Step	Step TDP	Ordering Code	Spec Code	VT-x	ECCN	CCATS	US HTS	RCP
FCLGA1155	E1	77 W	CM8063701211600	SR0PK	Yes	5A992C	G077159	8542310000-HYBRD	\$294

Boxed Intel® Core™ i7-3770 Processor (8M Cache, up to 3.90 GHz) FC-LGA12C

Socket	Step	Step TDP	Ordering Code	Spec Code	VT-x	ECCN	CCATS	US HTS	RCP
FCLGA1155	E1	77 W	BX80637173770	SR0PK	Yes	5A992C	G077159	8542310000-HYBRD	\$305

Boxed Intel® Core™ i7-3770 Processor (8M Cache, up to 3.90 GHz) FC-LGA12C, for China

Socket	Step	Step TDP	Ordering Code	Spec Code	VT-x	ECCN	CCATS	US HTS	RCP
FCLGA1155	E1	77 W	BXC80637173770	SR0PK	Yes	5A992C	G077159	8542310000-HYBRD	N/A

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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.

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.

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