



INTEL® CORE™ i7 DESKTOP PROCESSOR COMPARISON CHART



INSTRUCTIONS

1. If the column heading is underlined, clicking on that will take you to a web site or document where you can get more information on that term.
2. Clicking on the individual processor number will take you to an Intel database that contains an expanded set of processor specifications.
3. Clicking on the individual box order code will take you to the Intel® Desktop Compatibility Tool.

<u>PROCESSOR NUMBER</u>	<u>BOX ORDER CODE</u>	<u>LAUNCH YEAR</u>	<u>PROCESSOR SOCKET</u>	PROCESSOR BASE FREQUENCY (GHz)	<u>HIGHEST INTEL® TURBO BOOST FREQUENCY</u>	CACHE (MB)	CORES / THREADS	<u>INTEL® HYPER-THREADING TECHNOLOGY</u>	THERMAL DESIGN POWER (Watts)	FMB	INTEL® HD GRAPHICS	HD GRAPHICS SPEED (MHz)*	<u>INTEL® ADVANCED ENCRYPTION STANDARD (AES)</u>	<u>INTEL® VIRTUALIZATION TECHNOLOGY (VT-X)</u>	<u>INTEL® ADVANCED VECTOR EXTENSIONS (AVX)</u>	<u>PROCESS. TECHNOLOGY</u>	MAXIMUM DDR3 SUPPORTED MEMORY (MHz)	TECHNICAL DOCUMENTS
i7-4790k	BX80646I74790K	Q2'14	LGA1150	4	4.4	8	4/8	Yes	88	2013D	4600	350/1250	Yes	Yes	Yes	22 nm	1600	Go
i7-4790	BX80646I74790	Q2'14	LGA1150	3.6	4	8	4/8	Yes	84	2013D	4600	350/1200	Yes	Yes	Yes	22 nm	1600	Go
i7-4771	BX80646I74771	Q3'13	LGA1150	3.5	3.9	8	4/8	Yes	84	2013D	4600	350/1200	Yes	Yes	Yes	22 nm	1600	Go
i7-4770R	Not boxed	Q2'13	BGA1364	3.2	3.9	8	4/8	Yes	65	2013C	5200	200/1300	Yes	Yes	Yes	22 nm	1600	Go
i7-4770K	BX80646I74770K	Q2'13	LGA1150	3.5	3.9	8	4/8	Yes	84	2013D	4600	350/1250	Yes	Yes	Yes	22 nm	1600	Go
i7-4770	BX80646I74770	Q2'13	LGA1150	3.4	3.9	8	4/8	Yes	84	2013D	4600	350/1200	Yes	Yes	Yes	22 nm	1600	Go
i7-3930K	BX80619I73930K	Q4'11	LGA2011	3.2	3.8	12	6/12	Yes	130	2011P	No	N/A	Yes	Yes	Yes	32 nm	1600	Go
i7-3820	BX80619I73820	Q1'12	LGA2011	3.6	3.8	10	4/8	Yes	130	2011P	No	N/A	Yes	Yes	Yes	32 nm	1600	Go
i7-3770K	BX80637I73770K	Q2'12	LGA1155	3.5	3.9	8	4/8	Yes	77	2011D	4000	650/1150	Yes	Yes	Yes	22 nm	1600	Go
i7-3770	BX80637I73770	Q2'12	LGA1155	3.4	3.9	8	4/8	Yes	77	2011D	4000	650/1150	Yes	Yes	Yes	22 nm	1600	Go
i7-2700K	BX80623I72700K	Q4'11	LGA1155	3.5	3.9	8	4/8	Yes	95	2011D	3000	850/1350	Yes	Yes	Yes	32 nm	1333	Go
i7-2600K	BX80623I72600K	Q1'11	LGA1155	3.4	3.8	8	4/8	Yes	95	2011D	3000	850/1350	Yes	Yes	Yes	32 nm	1333	Go
i7-2600	BX80623I72600	Q1'11	LGA1155	3.4	3.8	8	4/8	Yes	95	2011D	2000	850/1350	Yes	Yes	Yes	32 nm	1333	Go
i7-980	BX80613I7980	Q2'11	LGA1366	3.33	3.6	12	6/12	Yes	130	08	No	No	Yes	Yes	No	32 nm	1066	Go
i7-970	BX80613I7970	Q3'10	LGA1366	3.2	3.46	12	6/12	Yes	130	08	No	No	Yes	Yes	No	32 nm	1066	Go
i7-960	BX80601960	Q4'09	LGA1366	3.2	3.46	8	4/8	Yes	130	08	No	No	No	Yes	No	45 nm	1066	Go
i7-950	BX80601950	Q2'09	LGA1366	3.06	3.33	8	4/8	Yes	130	08	No	No	No	Yes	No	45 nm	1066	Go
i7-940	BX80601940	Q4'08	LGA1366	2.93	3.2	8	4/8	Yes	130	08	No	No	No	Yes	No	45 nm	1066	Go
i7-930	BX80601930	Q1'10	LGA1366	2.8	3.06	8	4/8	Yes	130	08	No	No	No	Yes	No	45 nm	1066	Go
i7-920	BX80601920	Q4'08	LGA1366	2.66	2.93	8	4/8	Yes	130	08	No	No	No	Yes	No	45 nm	1066	Go
i7-880	BX80605I7880	Q2'10	LGA1156	3.06	3.73	8	4/8	Yes	95	09B	No	No	No	Yes	No	45 nm	1333	Go
i7-875K	BX80605I7875K	Q2'10	LGA1156	2.93	3.6	8	4/8	Yes	95	09B	No	No	No	Yes	No	45 nm	1333	Go
i7-870	BX80605I7870	Q3'09	LGA1156	2.93	3.6	8	4/8	Yes	95	09B	No	No	No	Yes	No	45 nm	1333	Go
i7-860	BX80605I7860	Q3'09	LGA1156	2.8	3.46	8	4/8	Yes	95	09B	No	No	No	Yes	No	45 nm	1333	Go

Technical Documents = Datasheets, Design Guides, etc.

Intel® Core™ i7 Desktop Processor Top Support Documents

[Intel® Desktop Processor Support Resources](#)

[Overview of Intel® Processor Tools](#)

[LGA2011 Socket](#)

[LGA1366 Socket](#)

[LGA1155 Socket](#)

[LGA1150 Socket](#)

This document contains the most commonly sought after information on Intel® Desktop Processors.

This document provides links to popular Intel® processor tools, with a description on what they do.

Desktop Processor Installation and Integration Document

Desktop Processor Installation and Integration Document

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Intel® Core™ i7 Desktop Processor Support Home Page

http://www.intel.com/p/en_US/support/highlights/processors/corei7dt



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i7-4790T	Not boxed	Q2'14	LGA1150	2.7	3.9	8	4/8	Yes	45W	2013B	4600	350/1200	Yes	Yes	Yes	22 nm	1600	Go
i7-4790S	BX80646I74790S	Q2'14	LGA1150	3.2	4	8	4/8	Yes	65W	2013C	4600	350/1200	Yes	Yes	Yes	22 nm	1600	Go
i7-4785T	Not boxed	Q2'14	LGA1150	2.2	3.2	8	4/8	Yes	35W	2013A	4600	350/1200	Yes	Yes	Yes	22 nm	1600	Go
i7-4770T	Not boxed	Q2'13	LGA1150	2.5	3.7	8	4/8	Yes	45	2013B	4600	350/1200	Yes	Yes	Yes	22 nm	1600	Go
i7-4770S	BX80646I74770S	Q2'13	LGA1150	3.1	3.9	8	4/8	Yes	65	2013C	4600	350/1200	Yes	Yes	Yes	22 nm	1600	Go
i7-4765T	Not boxed	Q2'13	LGA1150	2	3	8	4/8	Yes	35	2012A	4600	350/1200	Yes	Yes	Yes	22 nm	1600	Go
i7-3770T	Not boxed	Q2'12	LGA1155	2.5	3.7	8	4/8	Yes	45	2011B	4000	650/1150	Yes	Yes	Yes	22 nm	1600	Go
i7-3770S	Not boxed	Q2'12	LGA1155	3.1	3.9	8	4/8	Yes	65	2011C	4000	650/1150	Yes	Yes	Yes	22 nm	1600	Go
i7-2600S	BX80623I72600S	Q1'11	LGA1155	2.8	3.8	8	4/8	Yes	65	2011C	2000	850/1350	Yes	Yes	Yes	32 nm	1333	Go
i7-870S	BX80605I7870S	Q2'10	LGA1156	2.66	3.6	8	4/8	Yes	82	09A	No	No	No	Yes	No	45 nm	1333	Go
i7-860S	BX80605I7860S	Q1'10	LGA1156	2.53	3.46	8	4/8	Yes	82	09A	No	No	No	Yes	No	45 nm	1333	Go

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Intel® Core™ i7 Desktop Processor Top Support Documents

- [Intel® Core™ i7 Desktop Processors that have Intel® HD Graphics](#)
- [Intel® Processor Identification Utility download for Windows*](#)
- [Processor installation video for the LGA115x sockets](#)
- [Intel® Turbo Boost Frequently Asked Questions](#)

This document shows which Intel® HD Graphics version each processor has.

This document goes to the Processor Identification Utility Windows* download page.

This video shows how to install a processor in the LGA1150, LGA1155, and LGA1156 sockets.

This document answers questions on Intel® Turbo Boost Technology.

Intel® Core™ i7 Desktop Processor Support Home Page

http://www.intel.com/p/en_US/support/highlights/processors/corei7dt

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LGA1150 Socket