



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 an Intel database that will show which Intel® Desktop Boards are compatible with that processor.

<u>PROCESSOR NUMBER</u>	<u>BOX ORDER CODE</u>	LAUNCH YEAR	PROCESSOR SOCKET	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	<u>INTEL® HD GRAPHICS</u>	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>	PROCESSOR TECHNOLOGY	MAXIMUM DDR3 SUPPORTED MEMORY (MHz)	TECHNICAL DOCUMENTS
i7-6700K	BX80662176700K	Q3'15	LGA1151	4	4.2	8	4/8	Yes	95	2015D	530	350/1150	Yes	Yes	Yes	14 nm	See here	Go
i7-5930K	BX80648175930K	Q3'14	LGA2011V3	3.5	3.7	15	6/12	Yes	140	2011P	No	N/A	Yes	Yes	Yes	22 nm	2133	Go
i7-5820K	BX80648175820K	Q3'14	LGA2011V3	3.3	3.6	15	6/12	Yes	140	2011P	No	N/A	Yes	Yes	Yes	22 nm	2133	Go
i7-5775R	Not boxed	Q2'15	LGA1150	3.3	3.8	6	4/8	Yes	65	2013D	6200	300/1150	Yes	Yes	Yes	14 nm	1866	Go
i7-5775C	BX80658175775C	Q2'15	LGA1150	3.3	3.7	6	4/8	Yes	65	2013D	6200	300/1150	Yes	Yes	Yes	14 nm	1866	Go
i7-4930K	BX80633174930K	Q3'13	LGA2011	3.4	3.9	12	6/12	Yes	130	2011P	No	N/A	Yes	Yes	Yes	22 nm	1833	Go
i7-4820K	BX80633174820K	Q3'13	LGA2011	3.7	3.9	10	4/8	Yes	130	2011P	No	N/A	Yes	Yes	Yes	22 nm	1833	Go
i7-4771	BX80646174771	Q3'13	LGA1150	3.5	3.9	8	4/8	Yes	84	2013D	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	BX80646174770S	Q2'13	LGA1150	3.1	3.9	8	4/8	Yes	65	2013C	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	BX80646174770K	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	BX80646174770	Q2'13	LGA1150	3.4	3.9	8	4/8	Yes	84	2013D	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
i7-3930K	BX80619173930K	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	BX80619173820	Q1'12	LGA2011	3.6	3.8	10	4/8	Yes	130	2011P	No	N/A	Yes	Yes	Yes	32 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
i7-3770K	BX80637173770K	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	BX80637173770	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	BX80623172700K	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	BX80623172600K	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	BX80623172600	Q1'11	LGA1155	3.4	3.8	8	4/8	Yes	95	2011D	2000	850/1350	Yes	Yes	Yes	32 nm	1333	Go
i7-2600S	BX80623172600S	Q1'11	LGA1155	2.8	3.8	8	4/8	Yes	65	2011C	2000	850/1350	Yes	Yes	Yes	32 nm	1333	Go
i7-980	BX8061317980	Q2'11	LGA1366	3.33	3.6	12	6/12	Yes	130	08	No	No	Yes	Yes	No	32 nm	1066	Go
i7-970	BX8061317970	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	BX8060517880	Q2'10	LGA1156	3.06	3.73	8	4/8	Yes	95	09B	No	No	No	Yes	No	45 nm	1333	Go
i7-875K	BX8060517875K	Q2'10	LGA1156	2.93	3.6	8	4/8	Yes	95	09B	No	No	No	Yes	No	45 nm	1333	Go
i7-870	BX8060517870	Q3'09	LGA1156	2.93	3.6	8	4/8	Yes	95	09B	No	No	No	Yes	No	45 nm	1333	Go
i7-870S	BX8060517870S	Q2'10	LGA1156	2.66	3.6	8	4/8	Yes	82	09A	No	No	No	Yes	No	45 nm	1333	Go
i7-860	BX8060517860	Q3'09	LGA1156	2.8	3.46	8	4/8	Yes	95	09B	No	No	No	Yes	No	45 nm	1333	Go
i7-860S	BX8060517860S	Q1'10	LGA1156	2.53	3.46	8	4/8	Yes	82	09A	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](#)

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

[Overview of Intel® Processor Tools](#)

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

[Desktop Processor Warranty Frequently Asked Questions](#)

This documents provides answers to the most frequent questions we receive regarding processor warranty.

[Intel® Processor Installation Center](#)

This web site contains installation and integration material for Intel® Desktop Processors across various socket

Intel® Core™ i7 Desktop Processor Support Home Page

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