



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>	<u>LAUNCH YEAR</u>	<u>PROCESSOR SOCKET</u>	<u>PROCESSOR BASE FREQUENCY (GHz)</u>	<u>HIGHEST INTEL® TURBO BOOST FREQUENCY</u>	<u>CACHE (MB)</u>	<u>CORES / THREADS</u>	<u>INTEL® HYPER-THREADING TECHNOLOGY</u>	<u>THERMAL DESIGN POWER (Watts)</u>	<u>FMB</u>	<u>INTEL® HD GRAPHICS</u>	<u>HD GRAPHICS SPEED (MHz)*</u>	<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>	<u>MAXIMUM DDR3/DDR4 SUPPORTED MEMORY (MHz)</u>	<u>TECHNICAL DOCUMENTS</u>
i7-7700T	BX8067717700T	Q1'17	LGA1151	2.9	3.8	8	4/8	Yes	35	2015A	630	350/1150	Yes	Yes	Yes	14 nm	See here	Go
i7-7700K	BX8067717700K	Q1'17	LGA1151	4.2	4.5	8	4/8	Yes	91	2015D	630	350/1150	Yes	Yes	Yes	14 nm	See here	Go
i7-7700	BX8067717700	Q1'17	LGA1151	3.6	4.2	8	4/8	Yes	65	2015C	630	350/1150	Yes	Yes	Yes	14 nm	See here	Go
i7-6900K	BX80671176900K	Q2'16	LGA2011V3	3.2	3.7	20	8/16	Yes	140	2011P	No	N/A	Yes	Yes	Yes	14nm	See here	Go
i7-6850K	BX80671176850K	Q2'16	LGA2011V3	3.6	3.8	15	6/12	Yes	140	2011P	No	N/A	Yes	Yes	Yes	14 nm	See here	Go
i7-6800K	BX80671176800K	Q2'16	LGA2011V3	3.4	3.6	15	6/12	Yes	140	2011P	No	N/A	Yes	Yes	Yes	14 nm	See here	Go
i7-6785R	Not boxed	Q2'16	BGA1440	3.3	3.9	8	4/8	Yes	65	2015C	580	350/1150	Yes	Yes	Yes	14 nm	See here	Go
i7-6700T	BXC80662176700T	Q3'15	LGA1151	2.8	3.6	8	4/8	Yes	35	2015A	530	350/1100	Yes	Yes	Yes	14nm	See here	Go
i7-6700K	BX80662176700K	Q3'15	LGA1151	4	4.2	8	4/8	Yes	91	2015D	530	350/1150	Yes	Yes	Yes	14 nm	See here	Go
i7-6700	BX80662176700	Q3'15	LGA1151	3.4	4	8	4/8	Yes	65	2015C	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

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.

[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](#)

This is the home page for Intel® Core™ Desktop Processors.

Intel, the Intel logo, Intel Inside, the Intel Inside logo, Intel Core, and Core Inside are trademarks of Intel Corporation in the U.S. and/or other countries. Copyright © 2012 Intel Corporation. All rights reserved.*Other names and brands may be claimed as the property of others.