



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.
4. For complete memory support details click on the processor number (column 1) for specifications.

<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® UHD or 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>	PROCESS TECHNOLOGY	MAXIMUM DDR4 / DDR3L / DDR3 SUPPORTED MEMORY (MHz)	<u>TECHNICAL DOCUMENTS</u>
i7-8700K	BX80684I78700K	Q4'17	LGA1151	3.7	4.7	12	6/12	Yes	95	2015D	630	350/1200	Yes	Yes	Yes	14 nm	2400/NA/NA	Go
i7-8700	BX80684I78700	Q4'17	LGA1151	3.2	4.6	12	6/12	Yes	65	2015C	630	350/1200	Yes	Yes	Yes	14 nm	2400/NA/NA	Go
i7-7700T	BX80677I77700T	Q1'17	LGA1151	2.9	3.8	8	4/8	Yes	35	2015A	630	350/1150	Yes	Yes	Yes	14 nm	2400/1600/NA	Go
i7-7700K	BX80677I77700K	Q1'17	LGA1151	4.2	4.5	8	4/8	Yes	91	2015D	630	350/1150	Yes	Yes	Yes	14 nm	2400/1600/NA	Go
i7-7700	BX80677I77700	Q1'17	LGA1151	3.6	4.2	8	4/8	Yes	65	2015C	630	350/1150	Yes	Yes	Yes	14 nm	2400/1600/NA	Go
i7-6900K	BX80671I76900K	Q2'16	LGA2011V3	3.2	3.7	20	8/16	Yes	140	2011P	No	N/A	Yes	Yes	Yes	14nm	2400/NA/NA	Go
i7-6850K	BX80671I76850K	Q2'16	LGA2011V3	3.6	3.8	15	6/12	Yes	140	2011P	No	N/A	Yes	Yes	Yes	14 nm	2400/NA/NA	Go
i7-6800K	BX80671I76800K	Q2'16	LGA2011V3	3.4	3.6	15	6/12	Yes	140	2011P	No	N/A	Yes	Yes	Yes	14 nm	2400/NA/NA	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	2133/1600/NA	Go
i7-6700T	BXC80662I76700T	Q3'15	LGA1151	2.8	3.6	8	4/8	Yes	35	2015A	530	350/1100	Yes	Yes	Yes	14nm	2133/1600/NA	Go
i7-6700K	BX80662I76700K	Q3'15	LGA1151	4	4.2	8	4/8	Yes	91	2015D	530	350/1150	Yes	Yes	Yes	14 nm	2133/1600/NA	Go
i7-6700	BX80662I76700	Q3'15	LGA1151	3.4	4	8	4/8	Yes	65	2015C	530	350/1150	Yes	Yes	Yes	14 nm	2133/1600/NA	Go
i7-5930K	BX80648I75930K	Q3'14	LGA2011V3	3.5	3.7	15	6/12	Yes	140	2011P	No	N/A	Yes	Yes	Yes	22 nm	2133/NA/NA	Go
i7-5820K	BX80648I75820K	Q3'14	LGA2011V3	3.3	3.6	15	6/12	Yes	140	2011P	No	N/A	Yes	Yes	Yes	22 nm	2133/NA/NA	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	NA/1866/NA	Go
i7-5775C	BX80658I75775C	Q2'15	LGA1150	3.3	3.7	6	4/8	Yes	65	2013D	6200	300/1150	Yes	Yes	Yes	14 nm	NA/1600/NA	Go
i7-4930K	BX80633I74930K	Q3'13	LGA2011	3.4	3.9	12	6/12	Yes	130	2011P	No	N/A	Yes	Yes	Yes	22 nm	NA/NA/1866	Go
i7-4820K	BX80633I74820K	Q3'13	LGA2011	3.7	3.9	10	4/8	Yes	130	2011P	No	N/A	Yes	Yes	Yes	22 nm	NA/NA/1866	Go
i7-4790T	Not boxed	Q2'14	LGA1150	2.7	3.9	8	4/8	Yes	45	2013B	4600	350/1200	Yes	Yes	Yes	22 nm	NA/1600/1600	Go
i7-4790S	BX80646I74790S	Q2'14	LGA1150	3.2	4	8	4/8	Yes	65	2013C	4600	350/1200	Yes	Yes	Yes	22 nm	NA/1600/1600	Go
i7-4790K	BX80646I74790K	Q2'14	LGA1150	4	4.4	8	4/8	Yes	88	2013D	4600	350/1250	Yes	Yes	Yes	22 nm	NA/1600/1600	Go
i7-4790	BX80646I74790	Q2'14	LGA1150	3.6	4	8	4/8	Yes	84	2013D	5200	200/1200	Yes	Yes	Yes	22 nm	NA/1600/1600	Go
i7-4785T	Not boxed	Q2'14	LGA1150	2.2	3.2	8	4/8	Yes	35	2013A	4600	350/1200	Yes	Yes	Yes	22 nm	NA/1600/1600	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	NA/1600/1600	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	NA/1600/1600	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	NA/1600/1600	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	NA/1600/1600	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	NA/1600/1600	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	NA/1600/1600	Go
i7-4765T	Not boxed	Q2'13	LGA1150	2	3	8	4/8	Yes	35	2012A	4600	350/1200	Yes	Yes	Yes	22 nm	NA/1600/1600	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](#)

[Intel® Processor Installation Center](#)

[Intel® Core™ i7 Desktop Processor Support Home Page](#)

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.

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

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