



# 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>	PROCESS TECHNOLOGY	MAXIMUM DDR3/DDR4 SUPPORTED MEMORY (MHz)	TECHNICAL DOCUMENTS
<a href="#">i7-7700T</a>	<a href="#">BX8067717700T</a>	Q1'17	LGA1151	2.9	3.8	8	4/8	Yes	35	2015A	630	350/1150	Yes	Yes	Yes	14 nm	<a href="#">See here</a>	<a href="#">Go</a>
<a href="#">i7-7700K</a>	<a href="#">BX8067717700K</a>	Q1'17	LGA1151	4.2	4.5	8	4/8	Yes	91	2015D	630	350/1150	Yes	Yes	Yes	14 nm	<a href="#">See here</a>	<a href="#">Go</a>
<a href="#">i7-7700</a>	<a href="#">BX8067717700</a>	Q1'17	LGA1151	3.6	4.2	8	4/8	Yes	65	2015C	630	350/1150	Yes	Yes	Yes	14 nm	<a href="#">See here</a>	<a href="#">Go</a>
<a href="#">i7-6900K</a>	<a href="#">BX80671176900K</a>	Q2'16	LGA2011V3	3.2	3.7	20	8/16	Yes	140	2011P	No	N/A	Yes	Yes	Yes	14nm	<a href="#">See here</a>	<a href="#">Go</a>
<a href="#">i7-6850K</a>	<a href="#">BX80671176850K</a>	Q2'16	LGA2011V3	3.6	3.8	15	6/12	Yes	140	2011P	No	N/A	Yes	Yes	Yes	14 nm	<a href="#">See here</a>	<a href="#">Go</a>
<a href="#">i7-6800K</a>	<a href="#">BX80671176800K</a>	Q2'16	LGA2011V3	3.4	3.6	15	6/12	Yes	140	2011P	No	N/A	Yes	Yes	Yes	14 nm	<a href="#">See here</a>	<a href="#">Go</a>
<a href="#">i7-6785R</a>	Not boxed	Q2'16	BGA1440	3.3	3.9	8	4/8	Yes	65	2015C	580	350/1150	Yes	Yes	Yes	14 nm	<a href="#">See here</a>	<a href="#">Go</a>
<a href="#">i7-6700T</a>	<a href="#">BXC80662176700T</a>	Q3'15	LGA1151	2.8	3.6	8	4/8	Yes	35	2015A	530	350/1100	Yes	Yes	Yes	14nm	<a href="#">See here</a>	<a href="#">Go</a>
<a href="#">i7-6700K</a>	<a href="#">BX80662176700K</a>	Q3'15	LGA1151	4	4.2	8	4/8	Yes	91	2015D	530	350/1150	Yes	Yes	Yes	14 nm	<a href="#">See here</a>	<a href="#">Go</a>
<a href="#">i7-6700</a>	<a href="#">BX80662176700</a>	Q3'15	LGA1151	3.4	4	8	4/8	Yes	65	2015C	530	350/1150	Yes	Yes	Yes	14 nm	<a href="#">See here</a>	<a href="#">Go</a>
<a href="#">i7-5930K</a>	<a href="#">BX80648175930K</a>	Q3'14	LGA2011V3	3.5	3.7	15	6/12	Yes	140	2011P	No	N/A	Yes	Yes	Yes	22 nm	2133	<a href="#">Go</a>
<a href="#">i7-5820K</a>	<a href="#">BX80648175820K</a>	Q3'14	LGA2011V3	3.3	3.6	15	6/12	Yes	140	2011P	No	N/A	Yes	Yes	Yes	22 nm	2133	<a href="#">Go</a>
<a href="#">i7-5775R</a>	Not boxed	Q2'15	LGA1150	3.3	3.8	6	4/8	Yes	65	2013D	6200	300/1150	Yes	Yes	Yes	14 nm	1866	<a href="#">Go</a>
<a href="#">i7-5775C</a>	<a href="#">BX80658175775C</a>	Q2'15	LGA1150	3.3	3.7	6	4/8	Yes	65	2013D	6200	300/1150	Yes	Yes	Yes	14 nm	1866	<a href="#">Go</a>
<a href="#">i7-4930K</a>	<a href="#">BX80633174930K</a>	Q3'13	LGA2011	3.4	3.9	12	6/12	Yes	130	2011P	No	N/A	Yes	Yes	Yes	22 nm	1833	<a href="#">Go</a>
<a href="#">i7-4820K</a>	<a href="#">BX80633174820K</a>	Q3'13	LGA2011	3.7	3.9	10	4/8	Yes	130	2011P	No	N/A	Yes	Yes	Yes	22 nm	1833	<a href="#">Go</a>
<a href="#">i7-4771</a>	<a href="#">BX80646174771</a>	Q3'13	LGA1150	3.5	3.9	8	4/8	Yes	84	2013D	4600	350/1200	Yes	Yes	Yes	22 nm	1600	<a href="#">Go</a>
<a href="#">i7-4770T</a>	Not boxed	Q2'13	LGA1150	2.5	3.7	8	4/8	Yes	45	2013B	4600	350/1200	Yes	Yes	Yes	22 nm	1600	<a href="#">Go</a>
<a href="#">i7-4770S</a>	<a href="#">BX80646174770S</a>	Q2'13	LGA1150	3.1	3.9	8	4/8	Yes	65	2013C	4600	350/1200	Yes	Yes	Yes	22 nm	1600	<a href="#">Go</a>
<a href="#">i7-4770R</a>	Not boxed	Q2'13	BGA1364	3.2	3.9	8	4/8	Yes	65	2013C	5200	200/1300	Yes	Yes	Yes	22 nm	1600	<a href="#">Go</a>
<a href="#">i7-4770K</a>	<a href="#">BX80646174770K</a>	Q2'13	LGA1150	3.5	3.9	8	4/8	Yes	84	2013D	4600	350/1250	Yes	Yes	Yes	22 nm	1600	<a href="#">Go</a>
<a href="#">i7-4770</a>	<a href="#">BX80646174770</a>	Q2'13	LGA1150	3.4	3.9	8	4/8	Yes	84	2013D	4600	350/1200	Yes	Yes	Yes	22 nm	1600	<a href="#">Go</a>
<a href="#">i7-4765T</a>	Not boxed	Q2'13	LGA1150	2	3	8	4/8	Yes	35	2012A	4600	350/1200	Yes	Yes	Yes	22 nm	1600	<a href="#">Go</a>
<a href="#">i7-3930K</a>	<a href="#">BX80619173930K</a>	Q4'11	LGA2011	3.2	3.8	12	6/12	Yes	130	2011P	No	N/A	Yes	Yes	Yes	32 nm	1600	<a href="#">Go</a>
<a href="#">i7-3820</a>	<a href="#">BX80619173820</a>	Q1'12	LGA2011	3.6	3.8	10	4/8	Yes	130	2011P	No	N/A	Yes	Yes	Yes	32 nm	1600	<a href="#">Go</a>
<a href="#">i7-3770T</a>	Not boxed	Q2'12	LGA1155	2.5	3.7	8	4/8	Yes	45	2011B	4000	650/1150	Yes	Yes	Yes	22 nm	1600	<a href="#">Go</a>
<a href="#">i7-3770S</a>	Not boxed	Q2'12	LGA1155	3.1	3.9	8	4/8	Yes	65	2011C	4000	650/1150	Yes	Yes	Yes	22 nm	1600	<a href="#">Go</a>
<a href="#">i7-3770K</a>	<a href="#">BX80637173770K</a>	Q2'12	LGA1155	3.5	3.9	8	4/8	Yes	77	2011D	4000	650/1150	Yes	Yes	Yes	22 nm	1600	<a href="#">Go</a>
<a href="#">i7-3770</a>	<a href="#">BX80637173770</a>	Q2'12	LGA1155	3.4	3.9	8	4/8	Yes	77	2011D	4000	650/1150	Yes	Yes	Yes	22 nm	1600	<a href="#">Go</a>
<a href="#">i7-2700K</a>	<a href="#">BX80623172700K</a>	Q4'11	LGA1155	3.5	3.9	8	4/8	Yes	95	2011D	3000	850/1350	Yes	Yes	Yes	32 nm	1333	<a href="#">Go</a>
<a href="#">i7-2600K</a>	<a href="#">BX80623172600K</a>	Q1'11	LGA1155	3.4	3.8	8	4/8	Yes	95	2011D	3000	850/1350	Yes	Yes	Yes	32 nm	1333	<a href="#">Go</a>
<a href="#">i7-2600</a>	<a href="#">BX80623172600</a>	Q1'11	LGA1155	3.4	3.8	8	4/8	Yes	95	2011D	2000	850/1350	Yes	Yes	Yes	32 nm	1333	<a href="#">Go</a>
<a href="#">i7-2600S</a>	<a href="#">BX80623172600S</a>	Q1'11	LGA1155	2.8	3.8	8	4/8	Yes	65	2011C	2000	850/1350	Yes	Yes	Yes	32 nm	1333	<a href="#">Go</a>

Technical Documents = Datasheets, Design Guides, etc;

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[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](#)

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