



# 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>	PROCESSOR BASE FREQUENCY (GHz)	HIGHEST INTEL® TURBO BOOST FREQUENCY	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>	<u>PROCESS TECHNOLOGY</u>	MAXIMUM DDR3 SUPPORTED MEMORY (MHz)	<u>TECHNICAL DOCUMENTS</u>
<a href="#">i7-3930K</a>	<a href="#">BX80619I73930K</a>	Q4'2011	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="#">BX80619I73820</a>	Q1'2012	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	Q2'2012	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	Q2'2012	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="#">BX80637I73770K</a>	Q2'2012	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="#">BX80637I73770</a>	Q2'2012	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="#">BX80623I72700K</a>	Q4'2011	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="#">BX80623I72600K</a>	Q1'2011	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="#">BX80623I72600</a>	Q1'2011	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="#">BX80623I72600S</a>	Q1'2011	LGA1155	2.8	3.8	8	4/8	Yes	65	2011C	2000	850/1350	Yes	Yes	Yes	32 nm	1333	<a href="#">Go</a>
<a href="#">i7-980</a>	<a href="#">BX80613I7980</a>	Q2'2011	LGA1366	3.33	3.6	12	6/12	Yes	130	08	No	No	Yes	Yes	No	32 nm	1066	<a href="#">Go</a>
<a href="#">i7-970</a>	<a href="#">BX80613I7970</a>	Q3'2010	LGA1366	3.2	3.46	12	6/12	Yes	130	08	No	No	Yes	Yes	No	32 nm	1066	<a href="#">Go</a>
<a href="#">i7-960</a>	<a href="#">BX80601960</a>	Q4'2009	LGA1366	3.2	3.46	8	4/8	Yes	130	08	No	No	No	Yes	No	45 nm	1066	<a href="#">Go</a>
<a href="#">i7-950</a>	<a href="#">BX80601950</a>	Q2'2009	LGA1366	3.06	3.33	8	4/8	Yes	130	08	No	No	No	Yes	No	45 nm	1066	<a href="#">Go</a>
<a href="#">i7-940</a>	<a href="#">BX80601940</a>	Q4'2008	LGA1366	2.93	3.2	8	4/8	Yes	130	08	No	No	No	Yes	No	45 nm	1066	<a href="#">Go</a>
<a href="#">i7-930</a>	<a href="#">BX80601930</a>	Q1'2010	LGA1366	2.8	3.06	8	4/8	Yes	130	08	No	No	No	Yes	No	45 nm	1066	<a href="#">Go</a>
<a href="#">i7-920</a>	<a href="#">BX80601920</a>	Q4'2008	LGA1366	2.66	2.93	8	4/8	Yes	130	08	No	No	No	Yes	No	45 nm	1066	<a href="#">Go</a>
<a href="#">i7-880</a>	<a href="#">BX80605I7880</a>	Q2'2010	LGA1156	3.06	3.73	8	4/8	Yes	95	09B	No	No	No	Yes	No	45 nm	1333	<a href="#">Go</a>
<a href="#">i7-875K</a>	<a href="#">BX80605I7875K</a>	Q2'2010	LGA1156	2.93	3.6	8	4/8	Yes	95	09B	No	No	No	Yes	No	45 nm	1333	<a href="#">Go</a>
<a href="#">i7-870</a>	<a href="#">BX80605I7870</a>	Q3'2009	LGA1156	2.93	3.6	8	4/8	Yes	95	09B	No	No	No	Yes	No	45 nm	1333	<a href="#">Go</a>
<a href="#">i7-870S</a>	<a href="#">BX80605I7870S</a>	Q2'2010	LGA1156	2.66	3.6	8	4/8	Yes	82	09A	No	No	No	Yes	No	45 nm	1333	<a href="#">Go</a>
<a href="#">i7-860</a>	<a href="#">BX80605I7860</a>	Q3'2009	LGA1156	2.8	3.46	8	4/8	Yes	95	09B	No	No	No	Yes	No	45 nm	1333	<a href="#">Go</a>
<a href="#">i7-860S</a>	<a href="#">BX80605I7860S</a>	Q1'2010	LGA1156	2.53	3.46	8	4/8	Yes	82	09A	No	No	No	Yes	No	45 nm	1333	<a href="#">Go</a>

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.

[LGA2011 Socket](#)

Desktop Processor Installation and Integration Document

[LGA1155 Socket](#)

Desktop Processor Installation and Integration Document

[LGA1156 Socket](#)

Desktop Processor Installation and Integration Document

[LGA1366 Socket](#)

Desktop Processor Installation and Integration Document

## Intel® Core™ i7 Desktop Processor Support Home Page

[http://www.intel.com/p/en\\_US/support/highlights/processors/corei7dt](http://www.intel.com/p/en_US/support/highlights/processors/corei7dt)