



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>CLOCK SPEED (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 SUPPORTED MEMORY (MHz)</u>	<u>TECHNICAL DOCUMENTS</u>
i7-3930K	BX80619I73930K	Q4'2011	LGA2011	3.2	3.8	12	6/12	Yes	130	2011P	No	N/A	Yes	Yes	Yes	32 nm	1600	Go
i7-3820	BX80619I73820	Q1'2012	LGA2011	3.6	3.8	10	4/8	Yes	130	2011P	No	N/A	Yes	Yes	Yes	32 nm	1600	Go
i7-2700K	BX80623I72700K	Q4'2011	LGA1155	3.5	3.9	8	4/8	Yes	95	2011D	3000	850/1350	Yes	Yes	Yes	32 nm	1333	Go
i7-2600K	BX80623I72600K	Q1'2011	LGA1155	3.4	3.8	8	4/8	Yes	95	2011D	3000	850/1350	Yes	Yes	Yes	32 nm	1333	Go
i7-2600	BX80623I72600	Q1'2011	LGA1155	3.4	3.8	8	4/8	Yes	95	2011D	2000	850/1350	Yes	Yes	Yes	32 nm	1333	Go
i7-2600S	BX80623I72600S	Q1'2011	LGA1155	2.8	3.8	8	4/8	Yes	65	2011C	2000	850/1350	Yes	Yes	Yes	32 nm	1333	Go
i7-980	BX80613I7980	Q2'2011	LGA1366	3.33	3.6	12	6/12	Yes	130	08	No	No	Yes	Yes	No	32 nm	1066	Go
i7-970	BX80613I7970	Q3'2010	LGA1366	3.2	3.46	12	6/12	Yes	130	08	No	No	Yes	Yes	No	32 nm	1066	Go
i7-960	BX80601960	Q4'2009	LGA1366	3.2	3.46	8	4/8	Yes	130	08	No	No	No	Yes	No	45 nm	1066	Go
i7-950	BX80601950	Q2'2009	LGA1366	3.06	3.33	8	4/8	Yes	130	08	No	No	No	Yes	No	45 nm	1066	Go
i7-940	BX80601940	Q4'2008	LGA1366	2.93	3.2	8	4/8	Yes	130	08	No	No	No	Yes	No	45 nm	1066	Go
i7-930	BX80601930	Q1'2010	LGA1366	2.8	3.06	8	4/8	Yes	130	08	No	No	No	Yes	No	45 nm	1066	Go
i7-920	BX80601920	Q4'2008	LGA1366	2.66	2.93	8	4/8	Yes	130	08	No	No	No	Yes	No	45 nm	1066	Go
i7-880	BX80605I7880	Q2'2010	LGA1156	3.06	3.73	8	4/8	Yes	95	09B	No	No	No	Yes	No	45 nm	1333	Go
i7-875K	BX80605I7875K	Q2'2010	LGA1156	2.93	3.6	8	4/8	Yes	95	09B	No	No	No	Yes	No	45 nm	1333	Go
i7-870	BX80605I7870	Q3'2009	LGA1156	2.93	3.6	8	4/8	Yes	95	09B	No	No	No	Yes	No	45 nm	1333	Go
i7-870S	BX80605I7870S	Q2'2010	LGA1156	2.66	3.6	8	4/8	Yes	82	09A	No	No	No	Yes	No	45 nm	1333	Go
i7-860	BX80605I7860	Q3'2009	LGA1156	2.8	3.46	8	4/8	Yes	95	09B	No	No	No	Yes	No	45 nm	1333	Go
i7-860S	BX80605I7860S	Q1'2010	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.

[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