



INTEL® CORE™ i5 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 the Intel Desktop Compatibility Tool.

<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 SUPPORTED MEMORY (MHz)</u>	<u>TECHNICAL DOCUMENTS</u>
i5-4690K	BX80646154690K	Q2'14	LGA1150	3.5	3.9	6	4/4	No	88W	2013D	4600	350/1200	Yes	Yes	Yes	22 nm	1600	Go
i5-4690	BX80646154690	Q2'14	LGA1150	3.5	3.9	6	4/4	No	84W	2013D	4600	350/1200	Yes	Yes	Yes	22 nm	1600	Go
i5-4670K	BX80646154670K	Q2'13	LGA1150	3.4	3.8	6	4/4	No	84W	2013D	4600	350/1200	Yes	Yes	Yes	22 nm	1600	Go
i5-4670	BX80646154670	Q2'13	LGA1150	3.4	3.8	6	4/4	No	84W	2013D	4600	350/1200	Yes	Yes	Yes	22 nm	1600	Go
i5-4590	BX80646154590	Q2'14	LGA1150	3.3	3.7	6	4/4	No	84W	2013D	4600	350/1150	Yes	Yes	Yes	22 nm	1600	Go
i5-4570	BX80646154570	Q2'13	LGA1150	3.2	3.6	6	4/4	No	84W	2013D	4600	350/1150	Yes	Yes	Yes	22 nm	1600	Go
i5-4460	BX80646154460	Q2'14	LGA1150	3.2	3.4	6	4/4	No	84W	2013D	4600	350/1100	Yes	Yes	Yes	22 nm	1600	Go
i5-4440	BX80646154440	Q3'13	LGA1150	3.1	3.3	6	4/4	No	84W	2013D	4600	350/1100	Yes	Yes	Yes	22 nm	1600	Go
i5-4430	BX80646154330	Q2'13	LGA1150	3	3.2	6	4/4	No	84W	2013D	4600	350/1100	Yes	Yes	Yes	22 nm	1600	Go
i5-3570K	BX80637153570K	Q2'12	LGA1155	3.4	3.8	6	4/4	No	77W	2011D	4000	650/1150	Yes	Yes	Yes	22 nm	1600	Go
i5-3570	BX80637153570	Q2'12	LGA1155	3.4	3.8	6	4/4	No	77W	2011D	2500	650/1150	Yes	Yes	Yes	22 nm	1600	Go
i5-3550	BX80637153550	Q2'12	LGA1155	3.3	3.7	6	4/4	No	77W	2011D	2500	650/1150	Yes	Yes	Yes	22 nm	1600	Go
i5-3470	BX80637153470	Q2'12	LGA1155	3.2	3.6	6	4/4	No	77W	2011D	2500	650/1100	Yes	Yes	Yes	22 nm	1600	Go
i5-3450	BX80637153450	Q2'12	LGA1155	3.1	3.5	6	4/4	No	77W	2011D	2500	650/1100	Yes	Yes	Yes	22 nm	1600	Go
i5-3350P	BX80637153350P	Q3'12	LGA1155	3.1	3.3	6	4/4	No	69W	2011D	No	650/1050	Yes	Yes	Yes	22 nm	1600	Go
i5-3340	BX80637153340	Q3'13	LGA1155	3.1	3.3	6	4/4	No	77W	2011D	2500	650/1050	Yes	Yes	Yes	22 nm	1600	Go
i5-3330	BX80637153330	Q3'12	LGA1155	3	3.2	6	4/4	No	77W	2011D	2500	650/1050	Yes	Yes	Yes	22 nm	1600	Go
i5-2550K	BX80623152550K	Q1'12	LGA1155	3.4	3.8	6	4/4	No	95W	2011D	No	No	Yes	Yes	Yes	32 nm	1333	Go
i5-2500K	BX80623152500K	Q1'11	LGA1155	3.3	3.7	6	4/4	No	95W	2011D	3000	850/1100	Yes	Yes	Yes	32 nm	1333	Go
i5-2500	BX80623152500	Q1'11	LGA1155	3.3	3.7	6	4/4	No	95W	2011D	2000	850/1100	Yes	Yes	Yes	32 nm	1333	Go
i5-2450P	BX80623152450P	Q1'12	LGA1155	3.2	3.5	6	4/4	No	95W	2011D	No	No	Yes	Yes	Yes	32 nm	1333	Go
i5-2400	BX80623152400	Q1'11	LGA1155	3.1	3.4	6	4/4	No	95W	2011D	2000	850/1100	Yes	Yes	Yes	32 nm	1333	Go
i5-2380P	BX80623152380P	Q1'12	LGA1155	3.1	3.4	6	4/4	No	95W	2011D	No	No	Yes	Yes	Yes	32 nm	1333	Go
i5-2320	BX80623152320	Q3'11	LGA1155	3	3.3	6	4/4	No	95W	2011D	2000	850/1100	Yes	Yes	Yes	32 nm	1333	Go
i5-2310	BX80623152310	Q2'11	LGA1155	2.9	3.2	6	4/4	No	95W	2011D	2000	850/1100	Yes	Yes	Yes	32 nm	1333	Go
i5-2300	BX80623152300	Q1'11	LGA1155	2.8	3.1	6	4/4	No	95W	2011D	2000	850/1100	Yes	Yes	Yes	32 nm	1333	Go
i5-760	BX8060515760	Q3'10	LGA1156	2.8	3.33	8	4/4	No	95W	09B	No	No	No	Yes	No	45 nm	1333	Go
i5-750	BX8060515750	Q3'09	LGA1156	2.66	3.2	8	4/4	No	95W	09B	No	No	No	Yes	No	45 nm	1333	Go
i5-680	BX8061615680	Q2'10	LGA1156	3.6	3.86	4	2/4	Yes	73W	09A	Yes	733	Yes	Yes	No	32 nm	1333	Go
i5-670	BX8061615670	Q1'10	LGA1156	3.46	3.73	4	2/4	Yes	73W	09A	Yes	733	Yes	Yes	No	32 nm	1333	Go
i5-661	BX8061615661	Q1'10	LGA1156	3.33	3.6	4	2/4	Yes	87W	09B	Yes	900	Yes	Yes	No	32 nm	1333	Go
i5-660	BX8061615660	Q1'10	LGA1156	3.33	3.6	4	2/4	Yes	73W	09A	Yes	733	Yes	Yes	No	32 nm	1333	Go
i5-655K	BX8061615655K	Q2'10	LGA1156	3.2	3.46	4	2/4	Yes	73W	09A	Yes	733	Yes	Yes	No	32 nm	1333	Go

Technical Documents = Datasheets, Design Guides, etc.

Intel® Core™ i5 Desktop Processor Top Support Documents

[Intel® Desktop Processor Support Resources](#)

[Overview of Intel® Processor Tools](#)

[LGA1155 Socket](#)

[LGA1150 Socket](#)

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.

Desktop Processor Installation and Integration Document

Desktop Processor Installation and Integration Document

Intel® Core™ i5 Desktop Processor Support Home Page

http://www.intel.com/p/en_US/support/highlights/processors/corei5dt



INTEL® CORE™ i5 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 the Intel Desktop Compatibility Tool.

<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 SUPPORTED MEMORY (MHz)</u>	<u>TECHNICAL DOCUMENTS</u>
Low Power Desktop Processors																		
i5-4690T	BX80646I54670K	Q2'14	LGA1150	2.5	3.5	6	4/4	No	45W	2013B	4600	350/1200	Yes	Yes	Yes	22 nm	1600	Go
i5-4690S	BX80646I54670	Q2'14	LGA1150	3.2	3.9	6	4/4	No	65W	2013C	4600	350/1200	Yes	Yes	Yes	22 nm	1600	Go
i5-4670T	Not Boxed	Q2'13	LGA1150	2.3	3.3	6	4/4	No	45W	2013B	4600	350/1200	Yes	Yes	Yes	22 nm	1600	Go
i5-4670S	BX80646I54570	Q2'13	LGA1150	3.1	3.8	6	4/4	No	65W	2013C	4600	350/1200	Yes	Yes	Yes	22 nm	1600	Go
i5-4670R	Not Boxed	Q2'13	BGA1364	3	3.7	6	4/4	No	65W	2013C	5200	200/1300	Yes	Yes	Yes	22 nm	1600	Go
i5-4590T	Not Boxed	Q2'14	LGA1150	2	3	6	4/4	No	35W	2013A	4600	350/1150	Yes	Yes	Yes	22 nm	1600	Go
i5-4590S	BX80646I54330	Q2'14	LGA1150	3	3.7	6	4/4	No	65W	2013C	4600	350/1150	Yes	Yes	Yes	22 nm	1600	Go
i5-4570T	Not Boxed	Q2'13	LGA1150	2.9	3.6	4	2/4	Yes	35W	2013A	4600	200/1150	Yes	Yes	Yes	22 nm	1600	Go
i5-4570S	BX80646I74570S	Q2'13	LGA1150	2.9	3.6	6	4/4	No	65W	2013C	4600	350/1150	Yes	Yes	Yes	22 nm	1600	Go
i5-4570R	Not Boxed	Q2'13	BGA1364	2.7	3.2	6	4/4	No	65W	2013C	5200	200/1150	Yes	Yes	Yes	22 nm	1600	Go
i5-4460T	Not Boxed	Q2'14	LGA1150	1.9	2.7	6	4/4	No	35W	2013A	4600	350/1100	Yes	Yes	Yes	22 nm	1600	Go
i5-4460S	Not Boxed	Q2'14	LGA1150	2.9	3.4	6	4/4	No	65W	2013C	4600	350/1100	Yes	Yes	Yes	22 nm	1600	Go
i5-4440S	BX80646I54440S	Q3'13	LGA1150	2.8	3.3	6	4/4	No	65W	2013C	4600	350/1100	Yes	Yes	Yes	22 nm	1600	Go
i5-4430S	Not Boxed	Q2'13	LGA1150	2.7	3.2	6	4/4	No	65W	2013C	4600	350/1100	Yes	Yes	Yes	22 nm	1600	Go
i5-3570T	BX80637I53570T	Q2'12	LGA1155	2.3	3.3	6	4/4	No	45W	2011B	2500	650/1150	Yes	Yes	Yes	22 nm	1600	Go
i5-3570S	Not Boxed	Q2'12	LGA1155	3.1	3.8	6	4/4	No	65W	2011C	4000	650/1150	Yes	Yes	Yes	22 nm	1600	Go
i5-3550S	BX80637I53550S	Q2'12	LGA1155	3	3.7	6	4/4	No	65W	2011C	2500	650/1150	Yes	Yes	Yes	22 nm	1600	Go
i5-3475S	Not Boxed	Q2'12	LGA1155	2.9	3.6	6	4/4	No	65W	2011C	4000	650/1100	Yes	Yes	Yes	22 nm	1600	Go
i5-3470T	Not Boxed	Q2'12	LGA1155	2.9	3.6	3	2/4	Yes	35W	2011A	2500	650/1050	Yes	Yes	Yes	22 nm	1600	Go
i5-3470S	BX80637I53470S	Q2'12	LGA1155	2.9	3.6	6	4/4	No	65W	2011C	2500	650/1100	Yes	Yes	Yes	22 nm	1600	Go
i5-3450S	BX80637I53450S	Q2'12	LGA1155	2.8	3.5	6	4/4	No	65W	2011C	2500	650/1100	Yes	Yes	Yes	22 nm	1600	Go
i5-3340S	BX80637I53340S	Q3'13	LGA1155	2.8	3.3	6	4/4	No	65W	2011C	2500	650/1050	Yes	Yes	Yes	22 nm	1600	Go
i5-3335S	Not Boxed	Q3'12	LGA1155	2.7	3.2	6	4/4	No	65W	2011C	4000	650/1050	Yes	Yes	Yes	22 nm	1600	Go
i5-3330S	Not Boxed	Q3'12	LGA1155	2.7	3.2	6	4/4	No	65W	2011C	2500	650/1050	Yes	Yes	Yes	22 nm	1600	Go
i5-2500T	Not Boxed	Q1'11	LGA1155	2.3	3.3	6	4/4	No	45W	2011B	2000	650/1250	Yes	Yes	Yes	32 nm	1333	Go
i5-2500S	BX80623I52500S	Q1'11	LGA1155	2.7	3.7	6	4/4	No	65W	2011C	2000	850/1100	Yes	Yes	Yes	32 nm	1333	Go
i5-2405S	BX80623I52405S	Q2'11	LGA1155	2.5	3.3	6	4/4	No	65W	2011C	3000	850/1100	Yes	Yes	Yes	32 nm	1333	Go
i5-2400S	BX80623I52400S	Q1'11	LGA1155	2.5	3.3	6	4/4	No	65W	2011C	2000	850/1100	Yes	Yes	Yes	32 nm	1333	Go
i5-2390T	Not Boxed	Q1'11	LGA1155	2.7	3.5	3	2/4	Yes	35W	2011A	2000	650/1100	Yes	Yes	Yes	32 nm	1333	Go
i5-750S	BX80605I5750S	Q1'10	LGA1156	2.4	3.2	8	4/4	No	82W	09A	No	No	No	Yes	No	45 nm	1333	Go

Technical Documents = Datasheets, Design Guides, etc.

Intel® Core™ i5 Desktop Processor Top Support Documents

[Intel® Core™ i5 Desktop Processors that have Intel® HD Graphics](#)

This document shows which Intel® HD Graphics version each processor has.

[Intel® Processor Identification Utility download for Windows*](#)

This document goes to the Processor Identification Utility Windows* download page.

[Processor installation video for the LGA115x sockets](#)

This video shows how to install a processor in the LGA1150, LGA1155, and LGA1156 sockets.

[Intel® Turbo Boost Frequently Asked Questions](#)

This document answers questions on Intel® Turbo Boost Technology.

Intel® Core™ i5 Desktop Processor Support Home Page

http://www.intel.com/p/en_US/support/highlights/processors/corei5dt