



Intel® Core™ i5 Desktop Processors 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.
4. For complete memory support details click on the processor number (column 1) for specifications.

Processors Number	Processors Generation	Box Order Number	Launch Year	Processors Socket	Processor Base Frequency (GHz)	Max Turbo Frequency	Cache (MB)	Cores/ Threads	Thermal Design Power (Watts)	Intel® Graphics	Graphics Speed (MHz)	Intel® Advanced Encryption Standard (AES)	Intel® Advanced Vector Extensions (AVX)	Intel® Virtualization Technology (VT-X)	Intel® Optane™ Memory Supported	* Maximum DDR4/DDR3L/D DDR3 Supported Memory (MHz)
i5-8600K	8th Gen	BX80684I58600K	Q4'17	LGA1151	3.6	4.3	9	6/6	95W	UHD 630	350/1150	Yes	Yes	Yes	Yes	2666/NA/NA
i5-8600	8th Gen	BX80684I58600	Q2'18	LGA1151	3.1	4.3	9	6/6	65W	UHD 630	350/1150	Yes	Yes	Yes	Yes	2666/NA/NA
i5-8500	8th Gen	BX80684I58500	Q2'18	LGA1151	3	4.1	9	6/6	65W	UHD 630	350/1150	Yes	Yes	Yes	Yes	2666/NA/NA
i5-8400	8th Gen	BX80684I58400	Q4'17	LGA1151	2.8	4	9	6/6	65W	UHD 630	350/1050	Yes	Yes	Yes	Yes	2666/NA/NA
i5-7600K	7th Gen	BX80677I57600K	Q1'17	LGA1151	3.8	4.2	6	4/4	91W	HD 630	350/1150	Yes	Yes	Yes	Yes	2400/1600/NA
i5-7600	7th Gen	BX80677I57600	Q1'17	LGA1151	3.5	4.1	6	4/4	65W	HD 630	350/1150	Yes	Yes	Yes	Yes	2400/1600/NA
i5-7500	7th Gen	BX80677I57500	Q1'17	LGA1151	3.4	3.8	6	4/4	65W	HD 630	350/1100	Yes	Yes	Yes	Yes	2400/1600/NA
i5-7400	7th Gen	BX80677I57400	Q1'17	LGA1151	3	3.5	6	4/4	65W	HD 630	350/1000	Yes	Yes	Yes	Yes	2400/1600/NA
i5-6600K	6th Gen	BX80662I56600K	Q3'15	LGA1151	3.5	3.9	6	4/4	91W	HD 530	350/1150	Yes	Yes	Yes	No	2133/1600/NA
i5-6600	6th Gen	BX80662I56600	Q3'15	LGA1151	3.3	3.9	6	4/4	65W	HD 530	350/1150	Yes	Yes	Yes	No	2133/1600/NA
i5-6500	6th Gen	BX80662I56500	Q3'15	LGA1151	3.2	3.6	6	4/4	65W	HD 530	350/1050	Yes	Yes	Yes	No	2133/1600/NA
i5-6402P	6th Gen	BX80662I56402P	Q4'15	LGA1151	2.8	3.4	6	4/4	65W	HD 510	350/950	Yes	Yes	Yes	No	2133/1600/NA
i5-6400	6th Gen	BX80662I56400	Q3'15	LGA1151	2.7	3.3	6	4/4	65W	HD 530	350/950	Yes	Yes	Yes	No	2133/1600/NA
i5-5675C	5th Gen	BX80658I55675C	Q2'15	LGA1150	3.1	3.6	4	4/4	65W	Iris™ Pro 6200	300/1100	Yes	Yes	Yes	No	NA/1600/NA
i5-4690K	4th Gen	BX80646I54670K	Q2'14	LGA1150	3.5	3.9	6	4/4	88W	HD 4600	350/1200	Yes	Yes	Yes	No	NA/1600/1600
i5-4690	4th Gen	BX80646I54690	Q2'14	LGA1150	3.5	3.9	6	4/4	84W	HD 4600	350/1200	Yes	Yes	Yes	No	NA/1600/1600
i5-4670K	4th Gen	BX80646I54670K	Q2'13	LGA1150	3.4	3.8	6	4/4	84W	HD 4600	350/1200	Yes	Yes	Yes	No	NA/1600/1600
i5-4670	4th Gen	BX80646I54670	Q2'13	LGA1150	3.4	3.8	6	4/4	84W	HD 4600	350/1200	Yes	Yes	Yes	No	NA/1600/1600
i5-4590	4th Gen	BX80646I54590	Q2'14	LGA1150	3.3	3.7	6	4/4	84W	HD 4600	350/1150	Yes	Yes	Yes	No	NA/1600/1600
i5-4570	4th Gen	BX80646I54570	Q2'13	LGA1150	3.2	3.6	6	4/4	84W	HD 4600	350/1150	Yes	Yes	Yes	No	NA/1600/1600
i5-4460	4th Gen	BX80646I54460	Q2'14	LGA1150	3.2	3.4	6	4/4	84W	HD 4600	350/1100	Yes	Yes	Yes	No	NA/1600/1600
i5-4440	4th Gen	BX60646I54440	Q3'13	LGA1150	3.1	3.3	6	4/4	84W	HD 4600	350/1100	Yes	Yes	Yes	No	NA/1600/1600
i5-4430	4th Gen	BX80646I54330	Q2'13	LGA1150	3	3.2	6	4/4	84W	HD 4600	350/1100	Yes	Yes	Yes	No	NA/1600/1600

Technical Documents = Datasheets, Design Guides, etc.

* The value in column (Maximum DDR4/DDR3L/DDR3) is the maximum value, please refer to the [product specification page](#) for other possible values supported

Intel® Core™ i5 Desktop Processor Top Support Documents

Technical Documents (Datasheets, Design Guides, etc)	Technical resources for the processors
Intel® Core™ i5 Desktop Processors that have Intel® HD Graphics	This document shows which Intel® HD Graphics version each processor has.
Intel® Desktop Processor Support Resources	This document contains the most commonly sought after information on Intel® Desktop Processors.
Intel® Processor Installation Center	This site contains installation videos, manuals, and other integration material.

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Low Power Desktop Processors																
i5-8600T	8th Gen	Not Boxed	Q2'18	LGA1151	2.3	3.7	9	6/6	35W	UHD 630	350/1150	Yes	Yes	Yes	Yes	2666/NA/NA
i5-8500T	8th Gen	Not Boxed	Q2'18	LGA1151	2.1	3.5	9	6/6	35W	UHD 630	350/1100	Yes	Yes	Yes	Yes	2666/NA/NA
i5-8400T	8th Gen	Not Boxed	Q2'18	LGA1151	1.7	3.3	9	6/6	35W	UHD 630	350/1050	Yes	Yes	Yes	Yes	2666/NA/NA
i5-7600T	7th Gen	BX80677i57600T	Q1'17	LGA1151	2.8	3.7	6	4/4	35W	UHD 630	350/1100	Yes	Yes	Yes	Yes	2666/NA/NA
i5-7500T	7th Gen	BX80677i57500T	Q1'17	LGA1151	2.7	3.3	6	4/4	35W	HD 630	350/1100	Yes	Yes	Yes	Yes	2666/NA/NA
i5-7400T	7th Gen	BX80677i57400T	Q1'17	LGA1151	2.4	3	6	4/4	35W	HD 630	350/1000	Yes	Yes	Yes	Yes	2400/1600/NA
i5-6685R	6th Gen	Not Boxed	Q2'16	BGA1440	3.2	3.8	6	4/4	65W	Iris™ Pro 580	350/1150	Yes	Yes	No	Yes	2133/1600/NA
i5-6585R	6th Gen	Not Boxed	Q2'16	BGA1440	2.8	3.6	6	4/4	65W	HD 580	350/1150	Yes	Yes	No	Yes	2133/1600/NA
i5-6600T	6th Gen	BXC80662i56600T	Q3'15	LGA1151	2.7	3.5	6	4/4	35W	HD 530	350/1100	Yes	Yes	No	Yes	2133/1600/NA
i5-6500T	6th Gen	BXC80662i56500T	Q3'15	LGA1151	2.5	3.1	6	4/4	35W	HD 530	350/1100	Yes	Yes	No	Yes	2133/1600/NA
i5-6400T	6th Gen	BXC80662i56400T	Q3'15	LGA1151	2.2	2.8	6	4/4	35W	HD 530	350/950	Yes	Yes	No	Yes	2133/1600/NA
i5-5675R	5th Gen	Not Boxed	Q2'15	BGA1364	3.1	3.6	4	4/4	65W	Iris™ Pro 6200	300/1100	Yes	Yes	No	Yes	NA/1866/NA
i5-5575R	5th Gen	Not Boxed	Q2'15	BGA1364	2.8	3.3	4	4/4	65W	Iris™ Pro 6200	300/1050	Yes	Yes	No	Yes	NA/1866/NA
i5-4690T	4th Gen	Not Boxed	Q2'14	LGA1150	2.5	3.5	6	4/4	45W	HD 4600	350/1200	Yes	Yes	No	Yes	NA/1600/1600
i5-4690S	4th Gen	BX80646i54670	Q2'14	LGA1150	3.2	3.9	6	4/4	65W	HD 4600	350/1200	Yes	Yes	No	Yes	NA/1600/1600
i5-4670T	4th Gen	Not Boxed	Q2'13	LGA1150	2.3	3.3	6	4/4	45W	HD 4600	350/1200	Yes	Yes	No	Yes	NA/1600/1600
i5-4670S	4th Gen	BX80646i54570	Q2'13	LGA1150	3.1	3.8	6	4/4	65W	HD 4600	350/1200	Yes	Yes	No	Yes	NA/1600/1600
i5-4670R	4th Gen	Not Boxed	Q2'13	BGA1364	3	3.7	6	4/4	65W	Iris™ Pro 5200	200/1300	Yes	Yes	No	Yes	NA/1600/1600
i5-4590T	4th Gen	Not Boxed	Q2'14	LGA1150	2	3	6	4/4	35W	HD 4600	350/1150	Yes	Yes	No	Yes	NA/1600/1600
i5-4590S	4th Gen	BX80646i54330	Q2'14	LGA1150	3	3.7	6	4/4	65W	HD 4600	350/1150	Yes	Yes	No	Yes	NA/1600/1600
i5-4570T	4th Gen	Not Boxed	Q2'13	LGA1150	2.9	3.6	4	2/4	35W	HD 4600	200/1150	Yes	Yes	No	Yes	NA/1600/1600
i5-4570S	4th Gen	BX80646i74570S	Q2'13	LGA1150	2.9	3.6	6	4/4	65W	HD 4600	350/1150	Yes	Yes	No	Yes	NA/1600/1600
i5-4570R	4th Gen	Not Boxed	Q2'13	BGA1364	2.7	3.2	6	4/4	65W	Iris™ Pro 5200	200/1150	Yes	Yes	No	Yes	NA/1600/1600
i5-4460T	4th Gen	Not Boxed	Q2'14	LGA1150	1.9	2.7	6	4/4	35W	HD 4600	350/1100	Yes	Yes	No	Yes	NA/1600/1600
in column	4th Gen	Not Boxed	Q2'14	LGA1150	2.9	3.4	6	4/4	65W	HD 4600	350/1100	Yes	Yes	No	Yes	NA/1600/1600
i5-4440S	4th Gen	BX80646i54440S	Q3'13	LGA1150	2.8	3.3	6	4/4	65W	HD 4600	350/1100	Yes	Yes	No	Yes	NA/1600/1600
i5-4430S	4th Gen	Not Boxed	Q2'13	LGA1150	2.7	3.2	6	4/4	65W	HD 4600	350/1100	Yes	Yes	No	Yes	NA/1600/1600

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Technical Documents (Datasheets, Design Guides, etc)	Technical resources for the processors
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.