



Intel® Core™ i5 Mobile 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 the product specification page which contains an expanded set of processor specifications.

<u>Processor Number</u>	<u>Product Collection</u>	<u>Segment</u>	<u>Lithography (nm)</u>	<u>Launch Year</u>	<u># Cores /Threads</u>	<u>Processor Base Frequency (GHz)</u>	<u>Max Intel® Turbo Boost Technology 2.0 (GHz)</u>	<u>Intel® Hyper-Threading Technology</u>	<u>Intel® Graphics</u>	<u>Graphics Max Dynamic Frequency</u>	<u>Memory Type and Speed</u>	<u>Intel® VPro</u>	<u>Intel® Virtualization Technology (VT-x), IO (VT-d), EPT</u>
i5-10300H	10th Generation Intel® Core™ i5	Mobile	14 nm	Q2'20	4/8	2.50	4.50	Yes	Intel® UHD Graphics	1.05 GHz	*Up to: DDR4-2933	No	Yes
i5-1035G7	10th Generation Intel® Core™ i5	Mobile	10 nm	Q3'19	4/8	1.20	3.70	Yes	Intel® Iris® Plus Graphics	1.05 GHz	*Up to: DDR4-3200, LPDDR4-3733	No	Yes
i5-1035G4	10th Generation Intel® Core™ i5	Mobile	10 nm	Q3'19	4/8	1.10	3.70	Yes	Intel® Iris® Plus Graphics	1.05 GHz	*Up to: DDR4-3200, LPDDR4-3733	No	Yes
i5-1030G7	10th Generation Intel® Core™ i5	Mobile	10 nm	Q3'19	4/8	800 MHz	3.50	Yes	Intel® Iris® Plus Graphics	1.05 GHz	*Up to: LPDDR4-3733	No	Yes
i5-1030G4	10th Generation Intel® Core™ i5	Mobile	10 nm	Q3'19	4/8	700 MHz	3.50	Yes	Intel® Iris® Plus Graphics	1.05 GHz	*Up to: LPDDR4-3733	No	Yes
i5-1035G1	10th Generation Intel® Core™ i5	Mobile	10 nm	Q3'19	4/8	1.00	3.60	Yes	Intel® UHD Graphics	1.05 GHz	*Up to: DDR4-3200, LPDDR4-3733	No	Yes
i5-10210U	10th Generation Intel® Core™ i5	Mobile	14 nm	Q3'19	4/8	1.60	4.20	Yes	Intel® UHD Graphics	1.10 GHz	*Up to: DDR4-2666, LPDDR3-2133	No	Yes
i5-10310Y	10th Generation Intel® Core™ i5	Mobile	14 nm	Q3'19	4/8	1.10	4.10	Yes	Intel® UHD Graphics	1.05 GHz	*Up to: LPDDR3-2133, DDR3L-1600	No	Yes
i5-10210Y	10th Generation Intel® Core™ i5	Mobile	14 nm	Q3'19	4/8	1.00	4.00	Yes	Intel® UHD Graphics	1.05 GHz	*Up to: LPDDR3-2133, DDR3L-1600	No	Yes
i5-9400H	9th Generation Intel® Core™ i5	Mobile	14 nm	Q2'19	4/8	2.50	4.30	Yes	Intel® UHD Graphics 630	1.10 GHz	*Up to: DDR4-2666 MHz, LPDDR3-2133 MHz	Yes	Yes
i5-9300H	9th Generation Intel® Core™ i5	Mobile	14 nm	Q2'19	4/8	2.40	4.10	Yes	Intel® UHD Graphics 630	1.05 GHz	*Up to: DDR4-2666 MHz, LPDDR3-2133 MHz	No	Yes
i5-8350U	8th Generation Intel® Core™ i5	Mobile	14 nm	Q2'19	4/8	1.60	4.10	Yes	Intel® UHD Graphics 630	1.00 GHz	*Up to: DDR4-2400 MHz, LPDDR3-2133 MHz	**Yes	Yes
i5-8400H	8th Generation Intel® Core™ i5	Mobile	14 nm	Q2'18	4/8	2.50	4.20	Yes	Intel® UHD Graphics 630	1.10 GHz	*Up to: DDR4-2666 MHz, LPDDR3-2133 MHz	**Yes	Yes
i5-8300H	8th Generation Intel® Core™ i5	Mobile	14 nm	Q2'18	4/8	2.30	4.00	Yes	Intel® UHD Graphics 630	1.00 GHz	*Up to: DDR4-2666 MHz, LPDDR3-2133 MHz	No	Yes
i5-8269U	8th Generation Intel® Core™ i5	Mobile	14 nm	Q2'18	4/8	2.60	4.20	Yes	Intel® Iris™ Plus Graphics 655	1.10 GHz	*Up to: DDR4-2400 MHz, LPDDR3-2133 MHz	No	Yes
i5-8259U	8th Generation Intel® Core™ i5	Mobile	14 nm	Q2'18	4/8	2.30	3.80	Yes	Intel® Iris™ Plus Graphics 655	1.05 GHz	*Up to: DDR4-2400 MHz, LPDDR3-2133 MHz	No	Yes
i5-8150U	8th Generation Intel® Core™ i5	Mobile	14 nm	Q3'17	4/8	1.70	3.60	Yes	Intel® UHD Graphics 620	1.10 GHz	*Up to: DDR4-2400 MHz, LPDDR3-2133 MHz	**Yes	Yes
i5-8250U	8th Generation Intel® Core™ i5	Mobile	14 nm	Q3'17	4/8	1.60	3.40	Yes	Intel® UHD Graphics 620	1.10 GHz	*Up to: DDR4-2400 MHz, LPDDR3-2133 MHz	No	Yes
i5-7400HQ	7th Generation Intel® Core™ i5	Mobile	14 nm	Q1'17	4/4	2.80	3.80	No	Intel® HD Graphics 630	1.00 GHz	*Up to: DDR4-2400, LPDDR3-2133, DDR3L-1600	**Yes	Yes
i5-7360U	7th Generation Intel® Core™ i5	Mobile	14 nm	Q1'17	2/4	2.30	3.60	Yes	Intel® Iris™ Plus Graphics 640	1.00 GHz	*Up to: DDR4-2133, LPDDR3-1866, DDR3L-1600	**Yes	Yes
i5-7300U	7th Generation Intel® Core™ i5	Mobile	14 nm	Q1'17	2/4	2.60	3.50	Yes	Intel® HD Graphics 620	1.10 GHz	*Up to: DDR4-2133, LPDDR3-1866, DDR3L-1600	**Yes	Yes
i5-7300HQ	7th Generation Intel® Core™ i5	Mobile	14 nm	Q1'17	2/4	2.50	3.50	No	Intel® HD Graphics 630	1.00 GHz	*Up to: DDR4-2400, LPDDR3-2133, DDR3L-1600	No	Yes
i5-7270U	7th Generation Intel® Core™ i5	Mobile	14 nm	Q1'17	2/4	3.30	3.70	Yes	Intel® Iris™ Plus Graphics 650	1.10 GHz	*Up to: DDR4-2133, LPDDR3-1866, DDR3L-1600	No	Yes
i5-7270U	7th Generation Intel® Core™ i5	Mobile	14 nm	Q1'17	2/4	3.10	3.50	Yes	Intel® Iris™ Plus Graphics 650	1.05 GHz	*Up to: DDR4-2133, LPDDR3-1866, DDR3L-1600	No	Yes
i5-7260U	7th Generation Intel® Core™ i5	Mobile	14 nm	Q1'17	2/4	2.20	3.40	Yes	Intel® Iris™ Plus Graphics 640	950 MHz	*Up to: DDR4-2133, LPDDR3-1866, DDR3L-1600	No	Yes
i5-757	7th Generation Intel® Core™ i5	Mobile	14 nm	Q1'17	2/4	1.20	3.30	Yes	Intel® HD Graphics 615	950 MHz	*Up to: LPDDR3-1866, DDR3L-1600	**Yes	Yes
i5-7200U	7th Generation Intel® Core™ i5	Mobile	14 nm	Q3'16	2/4	2.50	3.10	Yes	Intel® HD Graphics 620	1.00 GHz	*Up to: DDR4-2133, LPDDR3-1866, DDR3L-1600	No	Yes
i5-754	7th Generation Intel® Core™ i5	Mobile	14 nm	Q3'16	2/4	1.20	3.20	Yes	Intel® HD Graphics 615	950 MHz	*Up to: LPDDR3-1866, DDR3L-1600	No	Yes
i5-6350HQ	6th Generation Intel® Core™ i5	Mobile	14 nm	Q1'16	4	2.30	3.20	No	Intel® Iris™ Pro Graphics 580	900 MHz	*Up to: DDR4-2133, LPDDR3-1866, DDR3L-1600	No	Yes
i5-6420HQ	6th Generation Intel® Core™ i5	Mobile	14 nm	Q3'15	4/4	2.60	3.50	No	Intel® HD Graphics 530	950 MHz	*Up to: DDR4-2133, LPDDR3-1866, DDR3L-1600	**Yes	Yes
i5-6360U	6th Generation Intel® Core™ i5	Mobile	14 nm	Q3'15	2/4	2.00	3.10	Yes	Intel® Iris™ Graphics 540	1.00 GHz	*Up to: DDR4-2133, LPDDR3-1866, DDR3L-1600	**Yes	Yes
i5-6300HQ	6th Generation Intel® Core™ i5	Mobile	14 nm	Q3'15	4/4	2.30	3.20	No	Intel® HD Graphics 530	950 MHz	*Up to: DDR4-2133, LPDDR3-1866, DDR3L-1600	No	Yes
i5-6300U	6th Generation Intel® Core™ i5	Mobile	14 nm	Q3'15	2/4	2.40	3.00	Yes	Intel® HD Graphics 520	1.00 GHz	*Up to: DDR4-2133, LPDDR3-1866, DDR3L-1600	**Yes	Yes
i5-6200U	6th Generation Intel® Core™ i5	Mobile	14 nm	Q3'15	2/4	2.30	2.80	Yes	Intel® HD Graphics 520	1.00 GHz	*Up to: DDR4-2133, LPDDR3-1866, DDR3L-1600	No	Yes
i5-6260U	6th Generation Intel® Core™ i5	Mobile	14 nm	Q3'15	2/4	1.80	2.90	Yes	Intel® Iris™ Graphics 540	950 MHz	*Up to: DDR4-2133, LPDDR3-1866, DDR3L-1600	No	Yes
i5-6267U	6th Generation Intel® Core™ i5	Mobile	14 nm	Q3'15	2/4	2.90	3.30	Yes	Intel® Iris™ Graphics 550	1.05 GHz	*Up to: DDR4-2133, LPDDR3-1866, DDR3L-1600	No	Yes
i5-6287U	6th Generation Intel® Core™ i5	Mobile	14 nm	Q3'15	2/4	3.10	3.50	Yes	Intel® Iris™ Graphics 550	1.10 GHz	*Up to: DDR4-2133, LPDDR3-1866, DDR3L-1600	No	Yes
i5-5350H	5th Generation Intel® Core™ i5	Mobile	14 nm	Q2'15	2/4	3.10	3.50	Yes	Intel® Iris™ Pro Graphics 6200	1.05 GHz	*Up to: DDR3L 1600/1866 LPDDR3 1600/1866	No	Yes
i5-5350U	5th Generation Intel® Core™ i5	Mobile	14 nm	Q1'15	2/4	1.80	2.90	Yes	Intel® HD Graphics 6000	1.00 GHz	*Up to: DDR3L 1333/1600, LPDDR3 1600/1866	**Yes	Yes
i5-5300U	5th Generation Intel® Core™ i5	Mobile	14 nm	Q1'15	2/4	2.30	2.90	Yes	Intel® HD Graphics 5500	900 MHz	*Up to: DDR3L 1333/1600, LPDDR3 1333/1600	**Yes	Yes
i5-5287U	5th Generation Intel® Core™ i5	Mobile	14 nm	Q1'15	2/4	2.90	3.30	Yes	Intel® Iris™ Graphics 6100	1.10 GHz	*Up to: DDR3L 1333/1600, LPDDR3 1600/1866	No	Yes
i5-5257U	5th Generation Intel® Core™ i5	Mobile	14 nm	Q1'15	2/4	2.70	3.10	Yes	Intel® Iris™ Graphics 6100	1.05 GHz	*Up to: DDR3L 1333/1600, LPDDR3 1600/1866	No	Yes
i5-5250U	5th Generation Intel® Core™ i5	Mobile	14 nm	Q1'15	2/4	1.60	2.70	Yes	Intel® HD Graphics 6000	950 MHz	*Up to: DDR3L 1333/1600, LPDDR3 1600/1866	No	Yes
i5-5200U	5th Generation Intel® Core™ i5	Mobile	14 nm	Q1'15	2/4	2.20	2.70	Yes	Intel® HD Graphics 5500	900 MHz	*Up to: DDR3L 1333/1600, LPDDR3 1333/1600	No	Yes
i5-4300U	4th Generation Intel® Core™ i5	Mobile	22 nm	Q3'14	2/4	2.80	3.30	Yes	Intel® Iris™ Graphics 5100	1.20 GHz	*Up to: DDR3L-1333, DDR3L-1600; LPDDR3-1333, LPDDR3-1600	No	Yes
i5-4210H	4th Generation Intel® Core™ i5	Mobile	22 nm	Q3'14	2/4	2.90	3.50	Yes	Intel® HD Graphics 4600	1.15 GHz	*Up to: DDR3L-1333, DDR3L-1600	No	Yes
i5-4278U	4th Generation Intel® Core™ i5	Mobile	22 nm	Q3'14	2/4	2.60	3.10	Yes	Intel® Iris™ Graphics 5100	1.10 GHz	*Up to: DDR3L-1333, DDR3L-1600; LPDDR3-1333, LPDDR3-1600	No	Yes

i5-4210M	4th Generation Intel® Core™ i5	Mobile	22 nm	Q2'14	2/4	2.60	3.20	Yes	Intel® HD Graphics 4600	1.15 GHz	*Up to: DDR3L-1333, DDR3L-1600	No	Yes
i5-4210U	4th Generation Intel® Core™ i5	Mobile	22 nm	Q2'14	2/4	1.70	2.70	Yes	Intel® HD Graphics 4400	1.00 GHz	*Up to: DDR3L-1333, DDR3L-1600, LPDDR3-1333, LPDDR3-1600	No	Yes
i5-4220Y	4th Generation Intel® Core™ i5	Mobile	22 nm	Q2'14	2/4	1.60	2.00	Yes	Intel® HD Graphics 4200	850 MHz	*Up to: DDR3L-1333, DDR3L-1600, LPDDR3-1333, LPDDR3-1600	No	Yes
i5-4250U	4th Generation Intel® Core™ i5	Mobile	22 nm	Q2'14	2/4	1.40	2.70	Yes	Intel® HD Graphics 5000	1.00 GHz	*Up to: DDR3L-1333, DDR3L-1600, LPDDR3-1333, LPDDR3-1600	No	Yes
i5-4310M	4th Generation Intel® Core™ i5	Mobile	22 nm	Q1'14	2/4	2.70	3.40	Yes	Intel® HD Graphics 4600	1.25 GHz	*Up to: DDR3L-1333, DDR3L-1600	**Yes	Yes
i5-4310U	4th Generation Intel® Core™ i5	Mobile	22 nm	Q1'14	2/4	2.00	3.00	Yes	Intel® HD Graphics 4400	1.10 GHz	*Up to: DDR3L-1333, DDR3L-1600, LPDDR3-1333, LPDDR3-1600	**Yes	Yes
i5-4340M	4th Generation Intel® Core™ i5	Mobile	22 nm	Q1'14	2/4	2.90	3.60	Yes	Intel® HD Graphics 4600	1.25 GHz	*Up to: DDR3L-1333, DDR3L-1600	**Yes	Yes
i5-4350M	4th Generation Intel® Core™ i5	Mobile	22 nm	Q1'14	2/4	1.50	3.00	Yes	Intel® HD Graphics 5000	1.10 GHz	*Up to: DDR3L-1333, DDR3L-1600, LPDDR3-1333, LPDDR3-1600	**Yes	Yes
i5-4300M	4th Generation Intel® Core™ i5	Mobile	22 nm	Q4'13	2/4	2.60	3.30	Yes	Intel® HD Graphics 4600	1.25 GHz	*Up to: DDR3L-1333, DDR3L-1600	**Yes	Yes
i5-4300U	4th Generation Intel® Core™ i5	Mobile	22 nm	Q3'13	2/4	1.90	2.90	Yes	Intel® HD Graphics 4400	1.10 GHz	*Up to: DDR3L-1333, DDR3L-1600, LPDDR3-1333, LPDDR3-1600	**Yes	Yes
i5-4300Y	4th Generation Intel® Core™ i5	Mobile	22 nm	Q3'13	2/4	1.60	2.30	Yes	Intel® HD Graphics 4200	850 MHz	*Up to: DDR3L-1333, DDR3L-1600, LPDDR3-1333, LPDDR3-1600	**Yes	Yes
i5-4302Y	4th Generation Intel® Core™ i5	Mobile	22 nm	Q3'13	2/4	1.60	2.30	Yes	Intel® HD Graphics 4200	850 MHz	*Up to: DDR3L-1333, DDR3L-1600, LPDDR3-1333, LPDDR3-1600	**Yes	Yes
i5-4330M	4th Generation Intel® Core™ i5	Mobile	22 nm	Q4'13	2/4	2.80	3.50	Yes	Intel® HD Graphics 4600	1.25 GHz	*Up to: DDR3L-1333, DDR3L-1600	**Yes	Yes
i5-4200H	4th Generation Intel® Core™ i5	Mobile	22 nm	Q4'13	2/4	2.80	3.40	Yes	Intel® HD Graphics 4600	1.15 GHz	*Up to: DDR3L-1333, DDR3L-1600	No	Yes
i5-4200M	4th Generation Intel® Core™ i5	Mobile	22 nm	Q4'13	2/4	2.50	3.10	Yes	Intel® HD Graphics 4600	1.15 GHz	*Up to: DDR3L-1333, DDR3L-1600	No	Yes
i5-4202Y	4th Generation Intel® Core™ i5	Mobile	22 nm	Q3'13	2/4	1.60	2.00	Yes	Intel® HD Graphics 4200	850 MHz	*Up to: DDR3L-1333, DDR3L-1600, LPDDR3-1333, LPDDR3-1600	No	Yes
i5-4210Y	4th Generation Intel® Core™ i5	Mobile	22 nm	Q3'13	2/4	1.50	1.90	Yes	Intel® HD Graphics 4200	850 MHz	*Up to: DDR3L-1333, DDR3L-1600, LPDDR3-1333, LPDDR3-1600	No	Yes
i5-4350U	4th Generation Intel® Core™ i5	Mobile	22 nm	Q3'13	2/4	1.40	2.90	Yes	Intel® HD Graphics 5000	1.10 GHz	*Up to: DDR3L-1333, DDR3L-1600, LPDDR3-1333, LPDDR3-1600	**Yes	Yes
i5-4200L	4th Generation Intel® Core™ i5	Mobile	22 nm	Q3'13	2/4	1.60	2.60	Yes	Intel® HD Graphics 4400	1.00 GHz	*Up to: DDR3L-1333, DDR3L-1600, LPDDR3-1333, LPDDR3-1600	No	Yes
i5-4200Y	4th Generation Intel® Core™ i5	Mobile	22 nm	Q3'13	2/4	1.40	1.90	Yes	Intel® HD Graphics 4200	850 MHz	*Up to: DDR3L-1333, DDR3L-1600, LPDDR3-1333, LPDDR3-1600	No	Yes
i5-4250U	4th Generation Intel® Core™ i5	Mobile	22 nm	Q3'13	2/4	1.30	2.60	Yes	Intel® HD Graphics 5000	1.00 GHz	*Up to: DDR3L-1333, DDR3L-1600, LPDDR3-1333, LPDDR3-1600	No	Yes
i5-4258U	4th Generation Intel® Core™ i5	Mobile	22 nm	Q3'13	2/4	2.40	2.90	Yes	Intel® Iris™ Graphics 5100	1.10 GHz	*Up to: DDR3L-1333, DDR3L-1600	No	Yes
i5-4288U	4th Generation Intel® Core™ i5	Mobile	22 nm	Q3'13	2/4	2.60	3.10	Yes	Intel® Iris™ Graphics 5100	1.20 GHz	*Up to: DDR3L-1333, DDR3L-1600	No	Yes

* Type and speed of memory can vary between laptops
** Refer to the laptop manufacturer for vPro support

Technical Documents (Datasheets, Design Guides, etc)
<https://www.intel.com/content/www/us/en/processors/core/core-technical-resources.html>

Mobile Processor Support Documents
[How to Find Processors Name and Number](#)
[How to Identify Intel® Processor Generation](#)

Find Your New PC (Laptop/ 2 in 1)
<https://www.intel.com/buy/us/en/audience/find-your-new-pc>
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