



# 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>
<a href="#">i5-1035G7</a>	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
<a href="#">i5-1035G4</a>	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
<a href="#">i5-1035G1</a>	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
<a href="#">i5-10210U</a>	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
<a href="#">i5-10310Y</a>	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
<a href="#">i5-10210Y</a>	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
<a href="#">i5-9400H</a>	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
<a href="#">i5-9300H</a>	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
<a href="#">i5-8365U</a>	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
<a href="#">i5-8400H</a>	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
<a href="#">i5-8300H</a>	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
<a href="#">i5-8269U</a>	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
<a href="#">i5-8259U</a>	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
<a href="#">i5-8350U</a>	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
<a href="#">i5-8250U</a>	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
<a href="#">i5-7420HQ</a>	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
<a href="#">i5-7360U</a>	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
<a href="#">i5-7300U</a>	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
<a href="#">i5-7300HQ</a>	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
<a href="#">i5-7287U</a>	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
<a href="#">i5-7267U</a>	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
<a href="#">i5-7269U</a>	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
<a href="#">i5-7257</a>	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
<a href="#">i5-7200U</a>	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
<a href="#">i5-7254</a>	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
<a href="#">i5-6320HQ</a>	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
<a href="#">i5-6440HQ</a>	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
<a href="#">i5-6300U</a>	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
<a href="#">i5-6300HQ</a>	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
<a href="#">i5-6302U</a>	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
<a href="#">i5-6202U</a>	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
<a href="#">i5-6260U</a>	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
<a href="#">i5-6267U</a>	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
<a href="#">i5-6267U</a>	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
<a href="#">i5-5350H</a>	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 1333/1600, LPDDR3 1600/1866	No	Yes
<a href="#">i5-5350U</a>	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
<a href="#">i5-5300U</a>	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
<a href="#">i5-5287U</a>	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
<a href="#">i5-5257U</a>	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
<a href="#">i5-5250U</a>	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
<a href="#">i5-5200U</a>	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
<a href="#">i5-4308U</a>	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
<a href="#">i5-4210H</a>	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
<a href="#">i5-4278U</a>	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
<a href="#">i5-4210M</a>	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
<a href="#">i5-4210U</a>	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
<a href="#">i5-4220V</a>	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

<a href="#">i5-4250U</a>	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
<a href="#">i5-4310M</a>	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
<a href="#">i5-4310U</a>	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
<a href="#">i5-4190M</a>	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
<a href="#">i5-4300U</a>	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
<a href="#">i5-4300M</a>	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
<a href="#">i5-4300U</a>	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
<a href="#">i5-4300Y</a>	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
<a href="#">i5-4302Y</a>	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
<a href="#">i5-4190M</a>	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
<a href="#">i5-4200H</a>	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
<a href="#">i5-4200M</a>	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
<a href="#">i5-4202Y</a>	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
<a href="#">i5-4210Y</a>	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
<a href="#">i5-4150U</a>	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
<a href="#">i5-4200U</a>	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
<a href="#">i5-4200Y</a>	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
<a href="#">i5-4250U</a>	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
<a href="#">i5-4258U</a>	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
<a href="#">i5-4288U</a>	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>  
<https://www.intel.com/buy/us/en/catalog/laptops/all>