



Intel® Core™ i7 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 Name</u>	<u>Product Collection</u>	<u>Segment</u>	<u>Lithography (nm)</u>	<u>Launch Year</u>	<u>Number 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 Platform Eligibility</u>	<u>Intel® Virtualization Technology (VT-x), IO/VTd, EPT</u>
i7-10875H	10th Generation Intel® Core™ i7	Mobile	14 nm	Q2'20	8/16	2.30	5.10	Yes	Intel® HD Graphics	1.20 GHz	*Up to: DDR4-2933	Yes	Yes
i7-10750H	10th Generation Intel® Core™ i7	Mobile	14 nm	Q2'20	6/12	2.60	5.00	Yes	Intel® HD Graphics	1.15 GHz	*Up to: DDR4-2933	Yes	Yes
i7-1060G7	10th Generation Intel® Core™ i7	Mobile	10 nm	Q3'19	4/8	1.00	3.80	Yes	Intel® Iris™ Plus Graphics	1.10 GHz	*Up to: LPDDR4-3733	No	Yes
i7-1065G7	10th Generation Intel® Core™ i7	Mobile	10 nm	Q3'19	4/8	1.30	3.90	Yes	Intel® Iris™ Plus Graphics	1.10 GHz	*Up to: DDR4-3200, LPDDR4-3733	No	Yes
i7-10210U	10th Generation Intel® Core™ i7	Mobile	14 nm	Q3'19	6/12	1.10	4.70	Yes	Intel® HD Graphics	1.15 GHz	*Up to: DDR4-2666, LPDDR3-2133	No	Yes
i7-10510U	10th Generation Intel® Core™ i7	Mobile	14 nm	Q3'19	4/8	1.80	4.90	Yes	Intel® HD Graphics	1.15 GHz	*Up to: DDR4-2666, LPDDR3-2133	No	Yes
i7-10510Y	10th Generation Intel® Core™ i7	Mobile	14 nm	Q3'19	4/8	1.20	4.50	Yes	Intel® HD Graphics	1.15 GHz	*Up to: LPDDR3-2133, DDR3L-1600	Yes	Yes
i7-9850H	9th Generation Intel® Core™ i7	Mobile	14 nm	Q2'19	6/12	2.60	4.60	Yes	Intel® HD Graphics 630	1.15 GHz	*Up to: DDR4-2666 MHz, LPDDR3-2133 MHz	Yes	Yes
i7-9750H	9th Generation Intel® Core™ i7	Mobile	14 nm	Q2'19	6/12	2.60	4.50	Yes	Intel® HD Graphics 630	1.15 GHz	*Up to: DDR4-2666 MHz, LPDDR3-2133 MHz	No	Yes
i7-8655U	8th Generation Intel® Core™ i7	Mobile	14 nm	Q2'19	4/8	1.90	4.80	Yes	Intel® UHD Graphics 620	1.15 GHz	*Up to: DDR4-2400 MHz, LPDDR3-2133 MHz	**Yes	Yes
i7-8650U	8th Generation Intel® Core™ i7	Mobile	14 nm	Q3'17	4/8	1.90	4.20	Yes	Intel® UHD Graphics 620	1.15 GHz	*Up to: DDR4-2400 MHz, LPDDR3-2133 MHz	**Yes	Yes
i7-8550U	8th Generation Intel® Core™ i7	Mobile	14 nm	Q3'17	4/8	1.80	4.00	Yes	Intel® UHD Graphics 620	1.15 GHz	*Up to: DDR4-2400 MHz, LPDDR3-2133 MHz	No	Yes
i7-7920HQ	7th Generation Intel® Core™ i7	Mobile	14 nm	Q1'17	4/8	3.10	4.10	Yes	Intel® HD Graphics 630	1.10 GHz	*Up to: DDR4-2400 MHz, LPDDR3-2133 MHz, DDR3L-1600 MHz	**Yes	Yes
i7-7820HQ	7th Generation Intel® Core™ i7	Mobile	14 nm	Q1'17	4/8	2.90	3.90	Yes	Intel® HD Graphics 630	1.10 GHz	*Up to: DDR4-2400 MHz, LPDDR3-2133 MHz, DDR3L-1600 MHz	**Yes	Yes
i7-7820HK	7th Generation Intel® Core™ i7	Mobile	14 nm	Q1'17	4/8	2.90	3.90	Yes	Intel® HD Graphics 630	1.10 GHz	*Up to: DDR4-2400 MHz, LPDDR3-2133 MHz, DDR3L-1600 MHz	No	Yes
i7-7700HQ	7th Generation Intel® Core™ i7	Mobile	14 nm	Q1'17	4/8	2.80	3.80	Yes	Intel® HD Graphics 630	1.10 GHz	*Up to: DDR4-2400 MHz, LPDDR3-2133 MHz, DDR3L-1600 MHz	No	Yes
i7-7660U	7th Generation Intel® Core™ i7	Mobile	14 nm	Q1'17	2/4	2.50	4.00	Yes	Intel® Iris™ Plus Graphics 640	1.10 GHz	*Up to: DDR4-2133 MHz, LPDDR3-1866 MHz, DDR3L-1600 MHz	**Yes	Yes
i7-7600U	7th Generation Intel® Core™ i7	Mobile	14 nm	Q1'17	2/4	2.80	3.90	Yes	Intel® HD Graphics 620	1.15 GHz	*Up to: DDR4-2133 MHz, LPDDR3-1866 MHz, DDR3L-1600 MHz	**Yes	Yes
i7-7567U	7th Generation Intel® Core™ i7	Mobile	14 nm	Q1'17	2/4	3.50	4.00	Yes	Intel® Iris™ Plus Graphics 650	1.15 GHz	*Up to: DDR4-2133 MHz, LPDDR3-1866 MHz, DDR3L-1600 MHz	No	Yes
i7-7560U	7th Generation Intel® Core™ i7	Mobile	14 nm	Q1'17	2/4	2.40	3.80	Yes	Intel® Iris™ Plus Graphics 640	1.05 GHz	*Up to: DDR4-2133 MHz, LPDDR3-1866 MHz, DDR3L-1600 MHz	No	Yes
i7-7500U	7th Generation Intel® Core™ i7	Mobile	14 nm	Q3'16	2/4	2.70	3.50	Yes	Intel® HD Graphics 620	1.05 GHz	*Up to: DDR4-2133 MHz, LPDDR3-1866 MHz, DDR3L-1600 MHz	No	Yes
i7-7275	7th Generation Intel® Core™ i7	Mobile	14 nm	Q3'16	2/4	1.30	3.60	Yes	Intel® HD Graphics 615	1.05 GHz	*Up to: LPDDR3-1866 MHz, DDR3L-1600 MHz	**Yes	Yes
i7-6575U	6th Generation Intel® Core™ i7	Mobile	14 nm	Q3'15	2/4	3.30	3.60	Yes	Intel® Iris™ Graphics 550	1.10 GHz	*Up to: DDR4-2133 MHz, LPDDR3-1866 MHz, DDR3L-1600 MHz	No	Yes
i7-6920HQ	6th Generation Intel® Core™ i7	Mobile	14 nm	Q3'15	4/8	2.90	3.80	Yes	Intel® HD Graphics 530	1.05 GHz	*Up to: DDR4-2133 MHz, LPDDR3-1866 MHz, DDR3L-1600 MHz	**Yes	Yes
i7-6820HQ	6th Generation Intel® Core™ i7	Mobile	14 nm	Q3'15	4/8	2.70	3.60	Yes	Intel® HD Graphics 530	1.05 GHz	*Up to: DDR4-2133 MHz, LPDDR3-1866 MHz, DDR3L-1600 MHz	**Yes	Yes
i7-6820HK	6th Generation Intel® Core™ i7	Mobile	14 nm	Q3'15	4/8	2.70	3.60	Yes	Intel® HD Graphics 530	1.05 GHz	*Up to: DDR4-2133 MHz, LPDDR3-1866 MHz, DDR3L-1600 MHz	No	Yes
i7-6700HQ	6th Generation Intel® Core™ i7	Mobile	14 nm	Q3'15	4/8	2.60	3.50	Yes	Intel® HD Graphics 530	1.05 GHz	*Up to: DDR4-2133 MHz, LPDDR3-1866 MHz, DDR3L-1600 MHz	No	Yes
i7-6650U	6th Generation Intel® Core™ i7	Mobile	14 nm	Q3'15	2/4	2.20	3.40	Yes	Intel® Iris™ Graphics 540	1.05 GHz	*Up to: DDR4-2133 MHz, LPDDR3-1866 MHz, DDR3L-1600 MHz	**Yes	Yes
i7-6600U	6th Generation Intel® Core™ i7	Mobile	14 nm	Q3'15	2/4	2.60	3.40	Yes	Intel® HD Graphics 520	1.05 GHz	*Up to: DDR4-2133 MHz, LPDDR3-1866 MHz, DDR3L-1600 MHz	**Yes	Yes
i7-6560U	6th Generation Intel® Core™ i7	Mobile	14 nm	Q3'15	2/4	2.20	3.20	Yes	Intel® Iris™ Graphics 540	1.05 GHz	*Up to: DDR4-2133 MHz, LPDDR3-1866 MHz, DDR3L-1600 MHz	No	Yes
i7-6500U	6th Generation Intel® Core™ i7	Mobile	14 nm	Q3'15	2/4	2.50	3.10	Yes	Intel® HD Graphics 520	1.05 GHz	*Up to: DDR4-2133 MHz, LPDDR3-1866 MHz, DDR3L-1600 MHz	No	Yes
i7-6970HQ	6th Generation Intel® Core™ i7	Mobile	14 nm	Q1'16	4/8	2.80	3.70	Yes	Intel® Iris™ Pro Graphics 580	1.05 GHz	*Up to: DDR4-2133 MHz, LPDDR3-1866 MHz, DDR3L-1600 MHz	No	Yes
i7-6870HQ	6th Generation Intel® Core™ i7	Mobile	14 nm	Q1'16	4/8	2.70	3.60	Yes	Intel® Iris™ Pro Graphics 580	1.00 GHz	*Up to: DDR4-2133 MHz, LPDDR3-1866 MHz, DDR3L-1600 MHz	No	Yes
i7-6770HQ	6th Generation Intel® Core™ i7	Mobile	14 nm	Q1'16	4/8	2.60	3.50	Yes	Intel® Iris™ Pro Graphics 580	950 MHz	*Up to: DDR4-2133 MHz, LPDDR3-1866 MHz, DDR3L-1600 MHz	No	Yes
i7-6660U	6th Generation Intel® Core™ i7	Mobile	14 nm	Q1'16	2/4	2.40	3.40	Yes	Intel® Iris™ Graphics 540	1.05 GHz	*Up to: DDR4-2133 MHz, LPDDR3-1866 MHz, DDR3L-1600 MHz	**Yes	Yes
i7-5650U	5th Generation Intel® Core™ i7	Mobile	14 nm	Q1'15	2/4	2.20	3.10	Yes	Intel® HD Graphics 6000	1.00 GHz	*Up to: DDR3L 1333 MHz/1600 MHz, LPDDR3 1600 MHz/1866 MHz	**Yes	Yes
i7-5600U	5th Generation Intel® Core™ i7	Mobile	14 nm	Q1'15	2/4	2.60	3.20	Yes	Intel® HD Graphics 5500	950 MHz	*Up to: DDR3L 1333 MHz/1600 MHz, LPDDR3 1333 MHz/1600 MHz	**Yes	Yes
i7-5557U	5th Generation Intel® Core™ i7	Mobile	14 nm	Q1'15	2/4	3.10	3.40	Yes	Intel® Iris™ Graphics 6100	1.10 GHz	*Up to: DDR3L 1333 MHz/1600 MHz, LPDDR3 1600 MHz/1866 MHz	No	Yes
i7-5550U	5th Generation Intel® Core™ i7	Mobile	14 nm	Q1'15	2/4	2.00	3.00	Yes	Intel® HD Graphics 6000	1.00 GHz	*Up to: DDR3L 1333 MHz/1600 MHz, LPDDR3 1600 MHz/1866 MHz	No	Yes
i7-5500U	5th Generation Intel® Core™ i7	Mobile	14 nm	Q1'15	2/4	2.40	3.00	Yes	Intel® HD Graphics 5500	950 MHz	*Up to: DDR3L 1333 MHz/1600 MHz, LPDDR3 1333 MHz/1600 MHz	No	Yes
i7-5950HQ	5th Generation Intel® Core™ i7	Mobile	14 nm	Q2'15	4/8	2.90	3.80	Yes	Intel® Iris™ Pro Graphics 6200	1.15 GHz	*Up to: DDR3L 1600 MHz/1866 MHz, LPDDR3 1600 MHz/1866 MHz	No	Yes
i7-5850HQ	5th Generation Intel® Core™ i7	Mobile	14 nm	Q2'15	4/8	2.70	3.60	Yes	Intel® Iris™ Pro Graphics 6200	1.10 GHz	*Up to: DDR3L 1600 MHz/1866 MHz, LPDDR3 1600 MHz/1866 MHz	No	Yes

i7-5750HQ	5th Generation Intel® Core™ i7	Mobile	14 nm	Q2'15	4/8	2.50	3.40	Yes	Intel® Iris™ Pro Graphics 6200	1.05 GHz	*Up to: DDR3L 1600 MHz/1866 MHz, LPDDR3 1600 MHz/1866 MHz	No	Yes
i7-4720HQ	4th Generation Intel® Core™ i7	Mobile	22 nm	Q1'15	4/8	2.60	3.60	Yes	Intel® HD Graphics 4600	1.20 GHz	*Up to: DDR3L 1333 MHz/1600 MHz	No	Yes
i7-4722HQ	4th Generation Intel® Core™ i7	Mobile	22 nm	Q1'15	4/8	2.40	3.40	Yes	Intel® HD Graphics 4600	1.15 GHz	*Up to: DDR3L 1333 MHz/1600 MHz	No	Yes
i7-4980HQ	4th Generation Intel® Core™ i7	Mobile	22 nm	Q3'14	4/8	2.80	4.00	Yes	Intel® Iris™ Pro Graphics 5200	1.30 GHz	*Up to: DDR3L 1333 MHz/1600 MHz	**Yes	Yes
i7-4870HQ	4th Generation Intel® Core™ i7	Mobile	22 nm	Q3'14	4/8	2.50	3.70	Yes	Intel® Iris™ Pro Graphics 5200	1.20 GHz	*Up to: DDR3L 1333 MHz/1600 MHz	**Yes	Yes
i7-4770HQ	4th Generation Intel® Core™ i7	Mobile	22 nm	Q3'14	4/8	2.20	3.40	Yes	Intel® Iris™ Pro Graphics 5200	1.20 GHz	*Up to: DDR3L 1333 MHz/1600 MHz	No	Yes
i7-4578U	4th Generation Intel® Core™ i7	Mobile	22 nm	Q3'14	2/4	3.00	3.50	Yes	Intel® Iris™ Graphics 5100	1.20 GHz	*Up to: DDR3L 1333 MHz/1600 MHz, LPDDR3-1333 MHz /1600 MHz	No	Yes
i7-4710HQ	4th Generation Intel® Core™ i7	Mobile	22 nm	Q2'14	4/8	2.50	3.50	Yes	Intel® HD Graphics 4600	1.20 GHz	*Up to: DDR3L 1333 MHz/1600 MHz	No	Yes
i7-4710MQ	4th Generation Intel® Core™ i7	Mobile	22 nm	Q2'14	4/8	2.50	3.50	Yes	Intel® HD Graphics 4600	1.15 GHz	*Up to: DDR3L 1333 MHz/1600 MHz	No	Yes
i7-4712HQ	4th Generation Intel® Core™ i7	Mobile	22 nm	Q2'14	4/8	2.30	3.30	Yes	Intel® HD Graphics 4600	1.15 GHz	*Up to: DDR3L 1333 MHz/1600 MHz	No	Yes
i7-4712MQ	4th Generation Intel® Core™ i7	Mobile	22 nm	Q2'14	4/8	2.30	3.30	Yes	Intel® HD Graphics 4600	1.15 GHz	*Up to: DDR3L 1333 MHz/1600 MHz	No	Yes
i7-4760HQ	4th Generation Intel® Core™ i7	Mobile	22 nm	Q2'14	4/8	2.10	3.30	Yes	Intel® Iris™ Pro Graphics 5200	1.20 GHz	*Up to: DDR3L 1333 MHz/1600 MHz	No	Yes
i7-4510U	4th Generation Intel® Core™ i7	Mobile	22 nm	Q2'14	2/4	2.00	3.10	Yes	Intel® HD Graphics 4400	1.10 GHz	*Up to: DDR3L 1333 MHz/1600 MHz, LPDDR3 1333 MHz /1600 MHz	No	Yes
i7-4910MQ	4th Generation Intel® Core™ i7	Mobile	22 nm	Q1'14	4/8	2.90	3.90	Yes	Intel® HD Graphics 4600	1.30 GHz	*Up to: DDR3L 1333 MHz/1600 MHz	**Yes	Yes
i7-4810MQ	4th Generation Intel® Core™ i7	Mobile	22 nm	Q1'14	4/8	2.80	3.80	Yes	Intel® HD Graphics 4600	1.30 GHz	*Up to: DDR3L 1333 MHz/1600 MHz	**Yes	Yes
i7-4860HQ	4th Generation Intel® Core™ i7	Mobile	22 nm	Q1'14	4/8	2.40	3.60	Yes	Intel® Iris™ Pro Graphics 5200	1.20 GHz	*Up to: DDR3L 1333 MHz/1600 MHz	**Yes	Yes
i7-4610M	4th Generation Intel® Core™ i7	Mobile	22 nm	Q1'14	2/4	3.00	3.70	Yes	Intel® HD Graphics 4600	1.30 GHz	*Up to: DDR3L 1333 MHz/1600 MHz	**Yes	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>

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

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