

Intel® Core™ Processor-Table

Processor overview:

<https://ark.intel.com/content/www/us/en/ark.html#@PanelLabel122139>

Processor Suffix (Letter) overview:

<https://www.intel.com/content/www/us/en/processors/processor-numbers.html>

Processor Suffixes

- G1-G7 Graphics level (processors with new integrated graphics technology only)
- E Embedded
- F Requires discrete graphics
- G Includes discrete graphics on package
- H High performance optimized for mobile
- HK High performance optimized for mobile, unlocked
- HQ High performance optimized for mobile, quad core
- K Unlocked
- S Special edition
- T Power-optimized lifestyle
- U Mobile power efficient
- Y Mobile extremely low power
- X/XE Unlocked, High End
- B Ball Grid Array (BGA)

Processors with no Suffix (letters) are often sold as a boxed processor and a processor-cooler is included and a buildt in graphics processor. No separate graphics card is then needed. A processor with graphics included supports 1 or 2 or sometimes 3 monitors. See the specs of the processor if the processor has a buildt in graphics processor and how many monitors this processor max. supports.

A boxed processor with a Suffix (letters) in it's name does NOT always contain a processor-cooler!
A Tray processor has NO processor-cooler included.

Boxed and Tray processors:

<https://www.intel.com/content/www/us/en/support/articles/000029613/processors.html>

Processors with Suffix F requires a seperate graphics card for the computer to run. If no seperate graphics card is present, then the computer wil NOT start.

Processors with Suffix K are often sold WITHOUT a cooler, no cooler included! Probably a larger seperate cooler and maybe also a bigger computercase is required.

Overclocking your unlocked processor:

Intel:

<https://www.intel.com/content/www/us/en/gaming/overclocking-intel-processors.html#multiasset>

Compare Unlocked Desktop Processors

<https://www.intel.com/content/www/us/en/gaming/overclocking-intel-processors.html>

Intel® Core™ i9 Processors

Processor-type	Launched	Cores	Max Turbo Frequency	Base Frequency	Intel® Smart Cache
Generation 13 Intel® Core™ i9-13900K	Q4'22	24	5.80 GHz		36 MB

Intel® Core™ i9-13900KF	Q4'22	24	5.80 GHz		36 MB
Generation 12					
Intel® Core™ i9-12900HX	Q2'22	16	5.00 GHz		30 MB
Intel® Core™ i9-12950HX	Q2'22	16	5.00 GHz		30 MB
Intel® Core™ i9-12900KS	Q1'22	16	5.50 GHz		30 MB
Intel® Core™ i9-12900	Q1'22	16	5.10 GHz		30 MB
Intel® Core™ i9-12900E	Q1'22	16	5.00 GHz		30 MB
Intel® Core™ i9-12900F	Q1'22	16	5.10 GHz		30 MB
Intel® Core™ i9-12900H	Q1'22	14	5.00 GHz		24 MB
Intel® Core™ i9-12900HK	Q1'22	14	5.00 GHz		24 MB
Intel® Core™ i9-12900T	Q1'22	16	4.90 GHz		30 MB
Intel® Core™ i9-12900TE	Q1'22	16	4.80 GHz		30 MB
Intel® Core™ i9-12900K	Q4'21	16	5.20 GHz		30 MB
Intel® Core™ i9-12900KF	Q4'21	16	5.20 GHz		30 MB
Generation 11					
Intel® Core™ i9-11900H	Q2'21	8	4.90 GHz		24 MB
Intel® Core™ i9-11950H	Q2'21	8	5.00 GHz		24 MB
Intel® Core™ i9-11980HK	Q2'21	8	5.00 GHz		24 MB
Intel® Core™ i9-11900	Q1'21	8	5.20 GHz	2.50 GHz	16 MB
Intel® Core™ i9-11900F	Q1'21	8	5.20 GHz	2.50 GHz	16 MB
Intel® Core™ i9-11900K	Q1'21	8	5.30 GHz	3.50 GHz	16 MB
Intel® Core™ i9-11900KF	Q1'21	8	5.30 GHz	3.50 GHz	16 MB
Intel® Core™ i9-11900T	Q1'21	8	4.90 GHz	1.50 GHz	16 MB
Generation 10					
Intel® Core™ i9-10850K	Q3'20	10	5.20 GHz	3.60 GHz	20 MB
Intel® Core™ i9-10885H	Q2'20	8	5.30 GHz	2.40 GHz	16 MB
Intel® Core™ i9-10900	Q2'20	10	5.20 GHz	2.80 GHz	20 MB
Intel® Core™ i9-10900E	Q2'20	10	4.70 GHz	2.80 GHz	20 MB
Intel® Core™ i9-10900F	Q2'20	10	5.20 GHz	2.80 GHz	20 MB
Intel® Core™ i9-10900K	Q2'20	10	5.30 GHz	3.70 GHz	20 MB
Intel® Core™ i9-10900KF	Q2'20	10	5.30 GHz	3.70 GHz	20 MB
Intel® Core™ i9-10900T	Q2'20	10	4.60 GHz	1.90 GHz	20 MB
Intel® Core™ i9-10900TE	Q2'20	10	4.50 GHz	1.80 GHz	20 MB
Intel® Core™ i9-10980HK	Q2'20	8	5.30 GHz	2.40 GHz	16 MB
Generation 9					
Intel® Core™ i9-9900KS	Q4'19	8	5.00 GHz	4.00 GHz	16 MB
Intel® Core™ i9-9880H	Q2'19	8	4.80 GHz	2.30 GHz	16 MB
Intel® Core™ i9-9900	Q2'19	8	5.00 GHz	3.10 GHz	16 MB
Intel® Core™ i9-9900T	Q2'19	8	4.40 GHz	2.10 GHz	16 MB
Intel® Core™ i9-9980HK	Q2'19	8	5.00 GHz	2.40 GHz	16 MB
Intel® Core™ i9-9900KF	Q1'19	8	5.00 GHz	3.60 GHz	16 MB
Intel® Core™ i9-9900K	Q4'18	8	5.00 GHz	3.60 GHz	16 MB
Generation 8					
Intel® Core™ i9-8950HK	Q2'18	6	4.80 GHz	2.90 GHz	12 MB

Intel® Core™ i7 Processors

Processor-type	Launched	Cores	Max Turbo Frequency	Base Frequency	Intel® Smart Cache
Generation 13					
Intel® Core™ i7-13700K	Q4'22	16	5.40 GHz	30 MB Intel® Smart Cache	
Intel® Core™ i7-13700KF	Q4'22	16	5.40 GHz	30 MB Intel® Smart Cache	
Generation 12					
Intel® Core™ i7-1255UL	Q3'22	10	4.70 GHz	1.70 GHz	12 MB
Intel® Core™ i7-1265UL	Q3'22	10	4.80 GHz	1.80 GHz	12 MB
Intel® Core™ i7-12700HL	Q3'22	14	4.70 GHz	2.30 GHz	24 MB

Intel® Core™ i7-12800HL	Q3'22	14	4.80 GHz	2.40 GHz	24 MB
Intel® Core™ i7-12650HX	Q2'22	14	4.70 GHz		24 MB
Intel® Core™ i7-12800HX	Q2'22	16	4.80 GHz		25 MB
Intel® Core™ i7-12850HX	Q2'22	16	4.80 GHz		25 MB
Intel® Core™ i7-1265UE	Q1'22	10			12 MB
Intel® Core™ i7-1270PE	Q1'22	12			18 MB
Intel® Core™ i7-1250U	Q1'22	10	4.70 GHz		12 MB
Intel® Core™ i7-1255U	Q1'22	10	4.70 GHz		12 MB
Intel® Core™ i7-1260P	Q1'22	12	4.70 GHz		18 MB
Intel® Core™ i7-1260U	Q1'22	10	4.70 GHz		12 MB
Intel® Core™ i7-1265U	Q1'22	10	4.80 GHz		12 MB
Intel® Core™ i7-1270P	Q1'22	12	4.80 GHz		18 MB
Intel® Core™ i7-1280P	Q1'22	14	4.80 GHz		24 MB
Intel® Core™ i7-12650H	Q1'22	10	4.70 GHz		24 MB
Intel® Core™ i7-12700	Q1'22	12	4.90 GHz		25 MB
Intel® Core™ i7-12700E	Q1'22	12	4.80 GHz		25 MB
Intel® Core™ i7-12700F	Q1'22	12	4.90 GHz		25 MB
Intel® Core™ i7-12700H	Q1'22	14	4.70 GHz		24 MB
Intel® Core™ i7-12700T	Q1'22	12	4.70 GHz		25 MB
Intel® Core™ i7-12700TE	Q1'22	12	4.60 GHz		25 MB
Intel® Core™ i7-12800H	Q1'22	14	4.80 GHz		24 MB
Intel® Core™ i7-12800HE	Q1'22	14			24 MB
Intel® Core™ i7-12700K	Q4'21	12	5.00 GHz		25 MB
Intel® Core™ i7-12700KF	Q4'21	12	5.00 GHz		25 MB

Generation 11

Intel® Core™ i7-11850HE	Q3'21	8	4.70 GHz		24 MB
Intel® Core™ i7-11600H	Q3'21	6	4.60 GHz		18 MB
Intel® Core™ i7-11390H	Q2'21	4	5.00 GHz		12 MB
Intel® Core™ i7-1195G7	Q2'21	4	5.00 GHz		12 MB
Intel® Core™ i7-1195G7	Q2'21	4	5.00 GHz		12 MB
Intel® Core™ i7-11800H	Q2'21	8	4.60 GHz		24 MB
Intel® Core™ i7-11850H	Q2'21	8	4.80 GHz		24 MB
Intel® Core™ i7-11700	Q1'21	8	4.90 GHz	2.50 GHz	16 MB
Intel® Core™ i7-11700F	Q1'21	8	4.90 GHz	2.50 GHz	16 MB
Intel® Core™ i7-11700K	Q1'21	8	5.00 GHz	3.60 GHz	16 MB
Intel® Core™ i7-11700KF	Q1'21	8	5.00 GHz	3.60 GHz	16 MB
Intel® Core™ i7-11700T	Q1'21	8	4.60 GHz	1.40 GHz	16 MB
Intel® Core™ i7-11370H	Q1'21	4	4.80 GHz		12 MB
Intel® Core™ i7-11375H	Q1'21	4	5.00 GHz		12 MB
Intel® Core™ i7-1180G7	Q1'21	4	4.60 GHz		12 MB
Intel® Core™ i7-1185G7E	Q3'20	4	4.40 GHz	1.80 GHz	12 MB
Intel® Core™ i7-1185GRE	Q3'20	4	4.40 GHz	1.80 GHz	12 MB
Intel® Core™ i7-1160G7	Q3'20	4	4.40 GHz		12 MB
Intel® Core™ i7-1165G7	Q3'20	4	4.70 GHz		12 MB
Intel® Core™ i7-1165G7	Q3'20	4	4.70 GHz		12 MB
Intel® Core™ i7-1185G7	Q3'20	4	4.80 GHz		12 MB

Generation 10

Intel® Core™ i7-10870H	Q3'20	8	5.00 GHz	2.20 GHz	16 MB
Intel® Core™ i7-10610U	Q2'20	4	4.90 GHz	1.80 GHz	8 MB
Intel® Core™ i7-10810U	Q2'20	6	4.90 GHz	1.10 GHz	12 MB
Intel® Core™ i7-1068NG7	Q2'20	4	4.10 GHz	2.30 GHz	8 MB
Intel® Core™ i7-10700	Q2'20	8	4.80 GHz	2.90 GHz	16 MB
Intel® Core™ i7-10700E	Q2'20	8	4.50 GHz	2.90 GHz	16 MB
Intel® Core™ i7-10700F	Q2'20	8	4.80 GHz	2.90 GHz	16 MB
Intel® Core™ i7-10700K	Q2'20	8	5.10 GHz	3.80 GHz	16 MB
Intel® Core™ i7-10700KF	Q2'20	8	5.10 GHz	3.80 GHz	16 MB
Intel® Core™ i7-10700T	Q2'20	8	4.50 GHz	2.00 GHz	16 MB
Intel® Core™ i7-10700TE	Q2'20	8	4.40 GHz	2.00 GHz	16 MB
Intel® Core™ i7-10750H	Q2'20	6	5.00 GHz	2.60 GHz	12 MB
Intel® Core™ i7-10850H	Q2'20	6	5.10 GHz	2.70 GHz	12 MB
Intel® Core™ i7-10875H	Q2'20	8	5.10 GHz	2.30 GHz	16 MB

Intel® Core™ i7-10510U	Q3'19	4	4.90 GHz	1.80 GHz	8 MB
Intel® Core™ i7-10510Y	Q3'19	4	4.50 GHz	1.20 GHz	8 MB
Intel® Core™ i7-10710U	Q3'19	6	4.70 GHz	1.10 GHz	12 MB
Intel® Core™ i7-1060G7	Q3'19	4	3.80 GHz	1.00 GHz	8 MB
Intel® Core™ i7-1065G7	Q3'19	4	3.90 GHz	1.30 GHz	8 MB

Generation 9

Intel® Core™ i7-9700E	Q2'19	8	4.40 GHz	2.60 GHz	12 MB
Intel® Core™ i7-9700TE	Q2'19	8	3.80 GHz	1.80 GHz	12 MB
Intel® Core™ i7-9850HE	Q2'19	6	4.40 GHz	2.70 GHz	9 MB
Intel® Core™ i7-9850HL	Q2'19	6	4.10 GHz	1.90 GHz	9 MB
Intel® Core™ i7-9700	Q2'19	8	4.70 GHz	3.00 GHz	12 MB
Intel® Core™ i7-9700F	Q2'19	8	4.70 GHz	3.00 GHz	12 MB
Intel® Core™ i7-9700T	Q2'19	8	4.30 GHz	2.00 GHz	12 MB
Intel® Core™ i7-9750H	Q2'19	6	4.50 GHz	2.60 GHz	12 MB
Intel® Core™ i7-9750HF	Q2'19	6	4.50 GHz	2.60 GHz	12 MB
Intel® Core™ i7-9850H	Q2'19	6	4.60 GHz	2.60 GHz	12 MB
Intel® Core™ i7-9700KF	Q1'19	8	4.90 GHz	3.60 GHz	12 MB
Intel® Core™ i7-9700K	Q4'18	8	4.90 GHz	3.60 GHz	12 MB

Generation 8

Intel® Core™ i7-8557U	Q3'19	4	4.50 GHz	1.70 GHz	8 MB
Intel® Core™ i7-8665UE	Q2'19	4	4.40 GHz	1.70 GHz	8 MB
Intel® Core™ i7-8569U	Q2'19	4	4.70 GHz	2.80 GHz	8 MB
Intel® Core™ i7-8665U	Q2'19	4	4.80 GHz	1.90 GHz	8 MB
Intel® Core™ i7-8500Y	Q1'19	2	4.20 GHz	1.50 GHz	4 MB
Intel® Core™ i7-8565U	Q3'18	4	4.60 GHz	1.80 GHz	8 MB
Intel® Core™ i7-8706G with Radeon™ Pro WX Discontinued	Q3'18	4	4.10 GHz	3.10 GHz	8 MB
Intel® Core™ i7-8086K	Q2'18	6	5.00 GHz	4.00 GHz	12 MB
Intel® Core™ i7-8559U	Q2'18	4	4.50 GHz	2.70 GHz	8 MB
Intel® Core™ i7+8700 Processor (12M Cache, up to 4.60 GHz) includes Intel® Op	Q2'18	6	4.60 GHz	3.20 GHz	12 MB
Intel® Core™ i7-8700B	Q2'18	6	4.60 GHz	3.20 GHz	12 MB
Intel® Core™ i7-8700T	Q2'18	6	4.00 GHz	2.40 GHz	12 MB
Intel® Core™ i7-8750H	Q2'18	6	4.10 GHz	2.20 GHz	9 MB
Intel® Core™ i7-8850H	Q2'18	6	4.30 GHz	2.60 GHz	9 MB
Intel® Core™ i7-8705G with Radeon™ RX Vega Discontinued	Q1'18	4	4.10 GHz	3.10 GHz	8 MB
Intel® Core™ i7-8706G with Radeon™ RX Vega	Q1'18	4	4.10 GHz	3.10 GHz	8 MB
Intel® Core™ i7-8709G with Radeon™ RX Vega Discontinued	Q1'18	4	4.10 GHz	3.10 GHz	8 MB
Intel® Core™ i7-8809G with Radeon™ RX Vega Discontinued	Q1'18	4	4.20 GHz	3.10 GHz	8 MB
Intel® Core™ i7-8700	Q4'17	6	4.60 GHz	3.20 GHz	12 MB
Intel® Core™ i7-8700K Discontinued	Q4'17	6	4.70 GHz	3.70 GHz	12 MB
Intel® Core™ i7-8550U	Q3'17	4	4.00 GHz	1.80 GHz	8 MB
Intel® Core™ i7-8650U	Q3'17	4	4.20 GHz	1.90 GHz	8 MB

Intel® Core™ i5 Processors

Processor-type	Launched	Cores	Max Turbo Frequency	Base Frequency	Intel® Smart Cache
Generation 13					
Intel® Core™ i5-13600K	Q4'22	14	5.10 GHz	24 MB Intel® Smart Cache	
Intel® Core™ i5-13600KF	Q4'22	14	5.10 GHz	24 MB Intel® Smart Cache	
Generation 12					
Intel® Core™ i5-1235UL	Q3'22	10	4.40 GHz	1.30 GHz	12 MB
Intel® Core™ i5-1245UL	Q3'22	10	4.40 GHz	1.60 GHz	12 MB
Intel® Core™ i5-12500HL	Q3'22	12	4.50 GHz	2.50 GHz	18 MB
Intel® Core™ i5-12600HL	Q3'22	12	4.50 GHz	2.70 GHz	18 MB
Intel® Core™ i5-12450HX	Q2'22	8	4.40 GHz		12 MB
Intel® Core™ i5-12600HX	Q2'22	12	4.60 GHz		18 MB

Intel® Core™ i5-1245UE	Q1'22	10			12 MB
Intel® Core™ i5-1250PE	Q1'22	12			12 MB
Intel® Core™ i5-1230U	Q1'22	10	4.40 GHz		12 MB
Intel® Core™ i5-1235U	Q1'22	10	4.40 GHz		12 MB
Intel® Core™ i5-1235U	Q1'22	10	4.40 GHz		12 MB
Intel® Core™ i5-1240P	Q1'22	12	4.40 GHz		12 MB
Intel® Core™ i5-1240U	Q1'22	10	4.40 GHz		12 MB
Intel® Core™ i5-1245U	Q1'22	10	4.40 GHz		12 MB
Intel® Core™ i5-1250P	Q1'22	12	4.40 GHz		12 MB
Intel® Core™ i5-12400	Q1'22	6	4.40 GHz		18 MB
Intel® Core™ i5-12400F	Q1'22	6	4.40 GHz		18 MB
Intel® Core™ i5-12400T	Q1'22	6	4.20 GHz		18 MB
Intel® Core™ i5-12450H	Q1'22	8	4.40 GHz		12 MB
Intel® Core™ i5-12500	Q1'22	6	4.60 GHz		18 MB
Intel® Core™ i5-12500E	Q1'22	6	4.50 GHz		18 MB
Intel® Core™ i5-12500H	Q1'22	12	4.50 GHz		18 MB
Intel® Core™ i5-12500T	Q1'22	6	4.40 GHz		18 MB
Intel® Core™ i5-12500TE	Q1'22	6	4.30 GHz		18 MB
Intel® Core™ i5-12600	Q1'22	6	4.80 GHz		18 MB
Intel® Core™ i5-12600H	Q1'22	12	4.50 GHz		18 MB
Intel® Core™ i5-12600HE	Q1'22	12			18 MB
Intel® Core™ i5-12600T	Q1'22	6	4.60 GHz		18 MB
Intel® Core™ i5-12600K	Q4'21	10	4.90 GHz		20 MB
Intel® Core™ i5-12600KF	Q4'21	10	4.90 GHz		20 MB

Generation 11

Intel® Core™ i5-11500HE	Q3'21	6	4.50 GHz		12 MB
Intel® Core™ i5-11320H	Q2'21	4	4.50 GHz		8 MB
Intel® Core™ i5-1155G7	Q2'21	4	4.50 GHz		8 MB
Intel® Core™ i5-1155G7	Q2'21	4	4.50 GHz		8 MB
Intel® Core™ i5-11260H	Q2'21	6	4.40 GHz		12 MB
Intel® Core™ i5-11400H	Q2'21	6	4.50 GHz		12 MB
Intel® Core™ i5-11500H	Q2'21	6	4.60 GHz		12 MB
Intel® Core™ i5-11400	Q1'21	6	4.40 GHz	2.60 GHz	12 MB
Intel® Core™ i5-11400F	Q1'21	6	4.40 GHz	2.60 GHz	12 MB
Intel® Core™ i5-11400T	Q1'21	6	3.70 GHz	1.30 GHz	12 MB
Intel® Core™ i5-11500	Q1'21	6	4.60 GHz	2.70 GHz	12 MB
Intel® Core™ i5-11500T	Q1'21	6	3.90 GHz	1.50 GHz	12 MB
Intel® Core™ i5-11600	Q1'21	6	4.80 GHz	2.80 GHz	12 MB
Intel® Core™ i5-11600K	Q1'21	6	4.90 GHz	3.90 GHz	12 MB
Intel® Core™ i5-11600KF	Q1'21	6	4.90 GHz	3.90 GHz	12 MB
Intel® Core™ i5-11600T	Q1'21	6	4.10 GHz	1.70 GHz	12 MB
Intel® Core™ i5-11300H	Q1'21	4	4.40 GHz		8 MB
Intel® Core™ i5-1140G7	Q1'21	4	4.20 GHz		8 MB
Intel® Core™ i5-1145G7	Q1'21	4	4.40 GHz		8 MB
Intel® Core™ i5-1145G7E	Q3'20	4	4.10 GHz	1.50 GHz	8 MB
Intel® Core™ i5-1145GRE	Q3'20	4	4.10 GHz	1.50 GHz	8 MB
Intel® Core™ i5-1130G7	Q3'20	4	4.00 GHz		8 MB
Intel® Core™ i5-1135G7	Q3'20	4	4.20 GHz		8 MB
Intel® Core™ i5-1135G7	Q3'20	4	4.20 GHz		8 MB

Generation 10

Intel® Core™ i5-10505	Q1'21	6	4.60 GHz	3.20 GHz	12 MB
Intel® Core™ i5-10500H	Q4'20	6	4.50 GHz	2.50 GHz	12 MB
Intel® Core™ i5-10200H	Q3'20	4	4.10 GHz	2.40 GHz	8 MB
Intel® Core™ i5-10310U	Q2'20	4	4.40 GHz	1.70 GHz	6 MB
Intel® Core™ i5-1038NG7	Q2'20	4	3.80 GHz	2.00 GHz	6 MB
Intel® Core™ i5-10400	Q2'20	6	4.30 GHz	2.90 GHz	12 MB
Intel® Core™ i5-10400F	Q2'20	6	4.30 GHz	2.90 GHz	12 MB
Intel® Core™ i5-10400T	Q2'20	6	3.60 GHz	2.00 GHz	12 MB
Intel® Core™ i5-10500	Q2'20	6	4.50 GHz	3.10 GHz	12 MB
Intel® Core™ i5-10500E	Q2'20	6	4.20 GHz	3.10 GHz	12 MB
Intel® Core™ i5-10500T	Q2'20	6	3.80 GHz	2.30 GHz	12 MB

Intel® Core™ i5-10500TE	Q2'20	6	3.70 GHz	2.30 GHz	12 MB
Intel® Core™ i5-10600	Q2'20	6	4.80 GHz	3.30 GHz	12 MB
Intel® Core™ i5-10600K	Q2'20	6	4.80 GHz	4.10 GHz	12 MB
Intel® Core™ i5-10600KF	Q2'20	6	4.80 GHz	4.10 GHz	12 MB
Intel® Core™ i5-10600T	Q2'20	6	4.00 GHz	2.40 GHz	12 MB
Intel® Core™ i5-10300H	Q2'20	4	4.50 GHz	2.50 GHz	8 MB
Intel® Core™ i5-10400H	Q2'20	4	4.60 GHz	2.60 GHz	8 MB
Intel® Core™ i5-10210U	Q3'19	4	4.20 GHz	1.60 GHz	6 MB
Intel® Core™ i5-10210Y	Q3'19	4	4.00 GHz	1.00 GHz	6 MB
Intel® Core™ i5-10310Y	Q3'19	4	4.10 GHz	1.10 GHz	6 MB
Intel® Core™ i5-1030G4	Q3'19	4	3.50 GHz	700 MHz	6 MB
Intel® Core™ i5-1030G7	Q3'19	4	3.50 GHz	800 MHz	6 MB
Intel® Core™ i5-1035G1	Q3'19	4	3.60 GHz	1.00 GHz	6 MB
Intel® Core™ i5-1035G4	Q3'19	4	3.70 GHz	1.10 GHz	6 MB
Intel® Core™ i5-1035G7	Q3'19	4	3.70 GHz	1.20 GHz	6 MB

Generation 9

Intel® Core™ i5-9500E	Q2'19	6	4.20 GHz	3.00 GHz	9 MB
Intel® Core™ i5-9500TE	Q2'19	6	3.60 GHz	2.20 GHz	9 MB
Intel® Core™ i5-9300H	Q2'19	4	4.10 GHz	2.40 GHz	8 MB
Intel® Core™ i5-9400H	Q2'19	4	4.30 GHz	2.50 GHz	8 MB
Intel® Core™ i5-9400T	Q2'19	6	3.40 GHz	1.80 GHz	9 MB
Intel® Core™ i5-9500	Q2'19	6	4.40 GHz	3.00 GHz	9 MB
Intel® Core™ i5-9500F	Q2'19	6	4.40 GHz	3.00 GHz	9 MB
Intel® Core™ i5-9500T	Q2'19	6	3.70 GHz	2.20 GHz	9 MB
Intel® Core™ i5-9600	Q2'19	6	4.60 GHz	3.10 GHz	9 MB
Intel® Core™ i5-9600T	Q2'19	6	3.90 GHz	2.30 GHz	9 MB
Intel® Core™ i5-9300HF	Q2'19	4	4.10 GHz	2.40 GHz	8 MB
Intel® Core™ i5-9400	Q1'19	6	4.10 GHz	2.90 GHz	9 MB
Intel® Core™ i5-9400F	Q1'19	6	4.10 GHz	2.90 GHz	9 MB
Intel® Core™ i5-9600KF	Q1'19	6	4.60 GHz	3.70 GHz	9 MB
Intel® Core™ i5-9600K	Q4'18	6	4.60 GHz	3.70 GHz	9 MB

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Intel® Core™ i5-8260U	Q4'19	4	3.90 GHz	1.60 GHz	6 MB
Intel® Core™ i5-8257U	Q3'19	4	3.90 GHz	1.40 GHz	6 MB
Intel® Core™ i5-8365UE	Q2'19	4	4.10 GHz	1.60 GHz	6 MB
Intel® Core™ i5-8279U	Q2'19	4	4.10 GHz	2.40 GHz	6 MB
Intel® Core™ i5-8365U	Q2'19	4	4.10 GHz	1.60 GHz	6 MB
Intel® Core™ i5-8310Y	Q1'19	2	3.90 GHz	1.60 GHz	4 MB
Intel® Core™ i5-8210Y	Q1'19	2	3.60 GHz	1.60 GHz	4 MB
Intel® Core™ i5-8200Y	Q3'18	2	3.90 GHz	1.30 GHz	4 MB
Intel® Core™ i5-8265U	Q3'18	4	3.90 GHz	1.60 GHz	6 MB
Intel® Core™ i5-8305G with Radeon™ Pro WX Vega M GL graph	Q3'18	4	3.80 GHz	2.80 GHz	6 MB
Intel® Core™ i5-8259U	Q2'18	4	3.80 GHz	2.30 GHz	6 MB
Intel® Core™ i5-8269U	Q2'18	4	4.20 GHz	2.60 GHz	6 MB
Intel® Core™ i5-8300H	Q2'18	4	4.00 GHz	2.30 GHz	8 MB
Intel® Core™ i5+8400 Processor (9M Cache, up to 4.00 GHz) includes Intel® Optane™ Memory	Q2'18	6	4.00 GHz	2.80 GHz	9 MB
Intel® Core™ i5-8400B	Q2'18	6	4.00 GHz	2.80 GHz	9 MB
Intel® Core™ i5-8400H	Q2'18	4	4.20 GHz	2.50 GHz	8 MB
Intel® Core™ i5-8400T	Q2'18	6	3.30 GHz	1.70 GHz	9 MB
Intel® Core™ i5-8500	Q2'18	6	4.10 GHz	3.00 GHz	9 MB
Intel® Core™ i5+8500 Processor (9M Cache, up to 4.10 GHz) includes Intel® Optane™ Memory	Q2'18	6	4.10 GHz	3.00 GHz	9 MB
Intel® Core™ i5-8500B	Q2'18	6	4.10 GHz	3.00 GHz	9 MB
Intel® Core™ i5-8500T	Q2'18	6	3.50 GHz	2.10 GHz	9 MB
Intel® Core™ i5-8600	Q2'18	6	4.30 GHz	3.10 GHz	9 MB
Intel® Core™ i5-8600T	Q2'18	6	3.70 GHz	2.30 GHz	9 MB
Intel® Core™ i5-8305G with Radeon™ RX Vega M GL graphics	Q1'18	4	3.80 GHz	2.80 GHz	6 MB
Intel® Core™ i5-8400	Q4'17	6	4.00 GHz	2.80 GHz	9 MB
Intel® Core™ i5-8600K	Q4'17	6	4.30 GHz	3.60 GHz	9 MB
Intel® Core™ i5-8250U	Q3'17	4	3.40 GHz	1.60 GHz	6 MB

Intel® Core™ i5-8350U	Q3'17	4	3.60 GHz	1.70 GHz	6 MB
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Intel® Core™ i3 Processors

Processor-type	Launched	Cores	Max Turbo Frequency	Base Frequency	Intel® Smart Cache
Generation 12					
Intel® Core™ i3-1215UL	Q3'22	6	4.40 GHz	1.20 GHz	10 MB
Intel® Core™ i3-12300HL	Q3'22	8	4.40 GHz	2.00 GHz	12 MB
Intel® Core™ i3-1215UE	Q1'22	6			10 MB
Intel® Core™ i3-1220PE	Q1'22	8			12 MB
Intel® Core™ i3-1210U	Q1'22	6	4.40 GHz		10 MB
Intel® Core™ i3-1215U	Q1'22	6	4.40 GHz		10 MB
Intel® Core™ i3-1215U	Q1'22	6	4.40 GHz		10 MB
Intel® Core™ i3-1220P	Q1'22	10	4.40 GHz		12 MB
Intel® Core™ i3-12100	Q1'22	4	4.30 GHz		12 MB
Intel® Core™ i3-12100E	Q1'22	4	4.20 GHz		12 MB
Intel® Core™ i3-12100F	Q1'22	4	4.30 GHz		12 MB
Intel® Core™ i3-12100T	Q1'22	4	4.10 GHz		12 MB
Intel® Core™ i3-12100TE	Q1'22	4	4.00 GHz		12 MB
Intel® Core™ i3-12300	Q1'22	4	4.40 GHz		12 MB
Intel® Core™ i3-12300HE	Q1'22	8			12 MB
Intel® Core™ i3-12300T	Q1'22	4	4.20 GHz		12 MB
Generation 11					
Intel® Core™ i3-11100HE	Q3'21	4	4.40 GHz		8 MB
Intel® Core™ i3-1115G4E	Q3'20	2	3.90 GHz	2.20 GHz	6 MB
Intel® Core™ i3-1115GRE	Q3'20	2	3.90 GHz	2.20 GHz	6 MB
Intel® Core™ i3-1120G4	Q1'21	4	3.50 GHz		8 MB
Intel® Core™ i3-1125G4	Q1'21	4	3.70 GHz		8 MB
Intel® Core™ i3-1125G4	Q1'21	4	3.70 GHz		8 MB
Intel® Core™ i3-1110G4	Q3'20	2	3.90 GHz		6 MB
Intel® Core™ i3-1115G4	Q3'20	2	4.10 GHz		6 MB
Intel® Core™ i3-1115G4	Q3'20	2	4.10 GHz		6 MB
Generation 10					
Intel® Core™ i3-10105	Q1'21	4	4.40 GHz	3.70 GHz	6 MB
Intel® Core™ i3-10105F	Q1'21	4	4.40 GHz	3.70 GHz	6 MB
Intel® Core™ i3-10105T	Q1'21	4	3.90 GHz	3.00 GHz	6 MB
Intel® Core™ i3-10305	Q1'21	4	4.50 GHz	3.80 GHz	8 MB
Intel® Core™ i3-10305T	Q1'21	4	4.00 GHz	3.00 GHz	8 MB
Intel® Core™ i3-10325	Q1'21	4	4.70 GHz	3.90 GHz	8 MB
Intel® Core™ i3-10100Y	Q1'21	2	3.90 GHz	1.30 GHz	4 MB
Intel® Core™ i3-10100F	Q4'20	4	4.30 GHz	3.60 GHz	6 MB
Intel® Core™ i3-10100	Q2'20	4	4.30 GHz	3.60 GHz	6 MB
Intel® Core™ i3-10100E	Q2'20	4	3.80 GHz	3.20 GHz	6 MB
Intel® Core™ i3-10100T	Q2'20	4	3.80 GHz	3.00 GHz	6 MB
Intel® Core™ i3-10100TE	Q2'20	4	3.60 GHz	2.30 GHz	6 MB
Intel® Core™ i3-10300	Q2'20	4	4.40 GHz	3.70 GHz	8 MB
Intel® Core™ i3-10300T	Q2'20	4	3.90 GHz	3.00 GHz	8 MB
Intel® Core™ i3-10320	Q2'20	4	4.60 GHz	3.80 GHz	8 MB
Intel® Core™ i3-10110U	Q3'19	2	4.10 GHz	2.10 GHz	4 MB
Intel® Core™ i3-10110Y	Q3'19	2	4.00 GHz	1.00 GHz	4 MB
Intel® Core™ i3-1000G1	Q3'19	2	3.20 GHz	1.10 GHz	4 MB
Intel® Core™ i3-1000G4	Q3'19	2	3.20 GHz	1.10 GHz	4 MB
Intel® Core™ i3-1005G1	Q3'19	2	3.40 GHz	1.20 GHz	4 MB
Generation 9					
Intel® Core™ i3-9100E	Q2'19	4	3.70 GHz	3.10 GHz	6 MB
Intel® Core™ i3-9100HL	Q2'19	4	2.90 GHz	1.60 GHz	6 MB
Intel® Core™ i3-9100TE	Q2'19	4	3.20 GHz	2.20 GHz	6 MB

Intel® Core™ i3-9100		Q2'19	4	4.20 GHz	3.60 GHz	6 MB
Intel® Core™ i3-9100F		Q2'19	4	4.20 GHz	3.60 GHz	6 MB
Intel® Core™ i3-9100T		Q2'19	4	3.70 GHz	3.10 GHz	6 MB
Intel® Core™ i3-9300		Q2'19	4	4.30 GHz	3.70 GHz	8 MB
Intel® Core™ i3-9300T		Q2'19	4	3.80 GHz	3.20 GHz	8 MB
Intel® Core™ i3-9320		Q2'19	4	4.40 GHz	3.70 GHz	8 MB
Intel® Core™ i3-9350K		Q2'19	4	4.60 GHz	4.00 GHz	8 MB
Intel® Core™ i3-9350KF		Q1'19	4	4.60 GHz	4.00 GHz	8 MB

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Intel® Core™ i3-8140U	Discontinued	Q4'19	2	3.90 GHz	2.10 GHz	4 MB
Intel® Core™ i3-8145UE		Q2'19	2	3.90 GHz	2.20 GHz	4 MB
Intel® Core™ i3-8100B	Discontinued	Q3'18	4		3.60 GHz	6 MB
Intel® Core™ i3-8145U	Discontinued	Q3'18	2	3.90 GHz	2.10 GHz	4 MB
Intel® Core™ i3-8100H		Q3'18	4		3.00 GHz	6 MB
Intel® Core™ i3-8100T		Q2'18	4		3.10 GHz	6 MB
Intel® Core™ i3-8109U	Discontinued	Q2'18	2	3.60 GHz	3.00 GHz	4 MB
Intel® Core™ i3-8300	Discontinued	Q2'18	4		3.70 GHz	8 MB
Intel® Core™ i3-8300T	Discontinued	Q2'18	4		3.20 GHz	8 MB
Intel® Core™ i3-8130U	Discontinued	Q1'18	2	3.40 GHz	2.20 GHz	4 MB
Intel® Core™ i3-8100		Q4'17	4		3.60 GHz	6 MB
Intel® Core™ i3-8350K	Discontinued	Q4'17	4		4.00 GHz	8 MB

Windows 11

English

<https://www.microsoft.com/en-us/windows/windows-11-specifications#primaryR3>

<https://www.microsoft.com/en-us/windows/windows-11#pchealthcheck>

Nederlands

<https://www.microsoft.com/nl-nl/windows/windows-11-specifications#primaryR3>

<https://www.microsoft.com/nl-nl/windows/windows-11#pchealthcheck>

Motherboards

NOTE:

Motherboards often support only 1 or 2 generations of processors !

Ready carefully before buying a motherboard which generation it supports and type of processors!

More information

More info:

<https://www.windowshelp.nl/intelprocessor/index.html>

Overview:

<https://ark.intel.com/content/www/us/en/ark.html#@PanelLabel122139>

Find Processors:

<https://ark.intel.com/content/www/us/en/ark/search/featurefilter.html?productType=873>