



Intel® Core™, Intel® Core Ultra, and Intel Processor Comparison Chart for Laptops



Click the link in the processor number column to find more features

Processor Number	Brand Type (Intel® Core™ Ultra or Intel® Processor)	Series	Intel® Core™ Generation	Brand Level	Year Launched	Lithography	# Cores	# of Performance Cores	# of Efficient Cores	# of Low Power Efficient Cores	# Threads	Max Turbo Frequency	Cache	Processor Base Power (previously known as TDP)	Minimum Acquired Power (previously known as Configurable TDP-down)	Max Memory Size (dependent on memory type)	Memory Types ¹	Processor Graphics	Graphics Max Dynamic Frequency	Max Resolution for HDMI, Max Resolution for DP, Max Resolution for (eDP - Integrated Flat Panel)	Intel® vPro™ Eligibility	Instruction Set Extensions
288V	Intel® Core™ Ultra	Series 2	N/A	9	2024	TSMC N3B	8	4	N/A	4	8	5.1 GHz ^{2,4}	12 MB	30 W	17 W	32 GB	LPDDR5X up to 8533 MT/s	Intel® Arc™ Graphics 140V	2.05 GHz	HDMI: 4096 x 2304 @ 60Hz (HDMI 2.1 TMDS) 7680 x 4320 @ 60Hz (HDMI2.1 FRL) DP: 7680 x 4320 @ 60Hz eDP: 3840x2400 @ 120Hz	No	Intel® SSE4.1, Intel® SSE4.2, Intel® AVX2
268X	Intel® Core™ Ultra	Series 2	N/A	7	2024	TSMC N3B	8	4	N/A	4	8	5 GHz ^{2,4}	12 MB	17 W	8 W	32 GB	LPDDR5X up to 8533 MT/s	Intel® Arc™ Graphics 140V	2 GHz	HDMI: 4096 x 2304 @ 60Hz (HDMI 2.1 TMDS) 7680 x 4320 @ 60Hz (HDMI2.1 FRL) DP: 7680 x 4320 @ 60Hz eDP: 3840x2400 @ 120Hz	No	Intel® SSE4.1, Intel® SSE4.2, Intel® AVX2
266V	Intel® Core™ Ultra	Series 2	N/A	7	2024	TSMC N3B	8	4	N/A	4	8	5 GHz ^{2,4}	12 MB	17 W	8 W	16 GB	LPDDR5X up to 8533 MT/s	Intel® Arc™ Graphics 140V	2 GHz	HDMI: 4096 x 2304 @ 60Hz (HDMI 2.1 TMDS) 7680 x 4320 @ 60Hz (HDMI2.1 FRL) DP: 7680 x 4320 @ 60Hz eDP: 3840x2400 @ 120Hz	No	Intel® SSE4.1, Intel® SSE4.2, Intel® AVX2
258V	Intel® Core™ Ultra	Series 2	N/A	7	2024	TSMC N3B	8	4	N/A	4	8	4.8 GHz ^{2,4}	12 MB	17 W	8 W	32 GB	LPDDR5X up to 8533 MT/s	Intel® Arc™ Graphics 140V	1.95 GHz	HDMI: 4096 x 2304 @ 60Hz (HDMI 2.1 TMDS) 7680 x 4320 @ 60Hz (HDMI2.1 FRL) DP: 7680 x 4320 @ 60Hz eDP: 3840x2400 @ 120Hz	No	Intel® SSE4.1, Intel® SSE4.2, Intel® AVX2
256V	Intel® Core™ Ultra	Series 2	N/A	7	2024	TSMC N3B	8	4	N/A	4	8	4.8 GHz ^{2,4}	12 MB	17 W	8 W	16 GB	LPDDR5X up to 8533 MT/s	Intel® Arc™ Graphics 140V	1.95 GHz	HDMI: 4096 x 2304 @ 60Hz (HDMI 2.1 TMDS) 7680 x 4320 @ 60Hz (HDMI2.1 FRL) DP: 7680 x 4320 @ 60Hz eDP: 3840x2400 @ 120Hz	No	Intel® SSE4.1, Intel® SSE4.2, Intel® AVX2
238V	Intel® Core™ Ultra	Series 2	N/A	5	2024	TSMC N3B	8	4	N/A	4	8	4.7 GHz ^{2,4}	8 MB	17 W	8 W	32 GB	LPDDR5X up to 8533 MT/s	Intel® Arc™ Graphics 130V	1.85 GHz	HDMI: 4096 x 2304 @ 60Hz (HDMI 2.1 TMDS) 7680 x 4320 @ 60Hz (HDMI2.1 FRL) DP: 7680 x 4320 @ 60Hz eDP: 3840x2400 @ 120Hz	No	Intel® SSE4.1, Intel® SSE4.2, Intel® AVX2
236V	Intel® Core™ Ultra	Series 2	N/A	5	2024	TSMC N3B	8	4	N/A	4	8	4.7 GHz ^{2,4}	8 MB	17 W	8 W	16 GB	LPDDR5X up to 8533 MT/s	Intel® Arc™ Graphics 130V	1.85 GHz	HDMI: 4096 x 2304 @ 60Hz (HDMI 2.1 TMDS) 7680 x 4320 @ 60Hz (HDMI2.1 FRL) DP: 7680 x 4320 @ 60Hz eDP: 3840x2400 @ 120Hz	No	Intel® SSE4.1, Intel® SSE4.2, Intel® AVX2
228V	Intel® Core™ Ultra	Series 2	N/A	5	2024	TSMC N3B	8	4	N/A	4	8	4.5 GHz ^{2,4}	8 MB	17 W	8 W	32 GB	LPDDR5X up to 8533 MT/s	Intel® Arc™ Graphics 130V	1.85 GHz	HDMI: 4096 x 2304 @ 60Hz (HDMI 2.1 TMDS) 7680 x 4320 @ 60Hz (HDMI2.1 FRL) DP: 7680 x 4320 @ 60Hz eDP: 3840x2400 @ 120Hz	No	Intel® SSE4.1, Intel® SSE4.2, Intel® AVX2
226V	Intel® Core™ Ultra	Series 2	N/A	5	2024	TSMC N3B	8	4	N/A	4	8	4.5 GHz ^{2,4}	8 MB	17 W	8 W	16 GB	LPDDR5X up to 8533 MT/s	Intel® Arc™ Graphics 130V	1.85 GHz	HDMI: 4096 x 2304 @ 60Hz (HDMI 2.1 TMDS) 7680 x 4320 @ 60Hz (HDMI2.1 FRL) DP: 7680 x 4320 @ 60Hz eDP: 3840x2400 @ 120Hz	No	Intel® SSE4.1, Intel® SSE4.2, Intel® AVX2
185H	Intel® Core™ Ultra	Series 1	N/A	9	2023	Intel 4	16	6	8	2	22	5.1 GHz ^{2,4}	24 MB	45 W	35 W	96 GB	Up to LPDDR5/x 7467 MT/s Up to DDR5 5600 MT/s	Intel® Arc™ graphics	2.35 GHz	HDMI: 4096 x 2304 @ 60Hz (HDMI 2.1 TMDS) 7680 x 4320 @ 60Hz (HDMI2.1 FRL) DP: 7680 x 4320 @ 60Hz eDP: 3840x2400 @ 120Hz	Yes	Intel® SSE4.1, Intel® SSE4.2, Intel® AVX2
165H	Intel® Core™ Ultra	Series 1	N/A	7	2023	Intel 4	16	6	8	2	22	5 GHz ^{2,4}	24 MB	28 W	20 W	96 GB	Up to LPDDR5/x 7467 MT/s Up to DDR5 5600 MT/s	Intel® Arc™ graphics	2.3 GHz	HDMI: 4096 x 2304 @ 60Hz (HDMI 2.1 TMDS) 7680 x 4320 @ 60Hz (HDMI2.1 FRL) DP: 7680 x 4320 @ 60Hz eDP: 3840x2400 @ 120Hz	Yes	Intel® SSE4.1, Intel® SSE4.2, Intel® AVX2
155H	Intel® Core™ Ultra	Series 1	N/A	7	2023	Intel 4	16	6	8	2	22	4.8 GHz ^{2,4}	24 MB	28 W	20 W	96 GB	Up to LPDDR5/x 7467 MT/s Up to DDR5 5600 MT/s	Intel® Arc™ graphics	2.25 GHz	HDMI: 4096 x 2304 @ 60Hz (HDMI 2.1 TMDS) 7680 x 4320 @ 60Hz (HDMI2.1 FRL) DP: 7680 x 4320 @ 60Hz eDP: 3840x2400 @ 120Hz	Yes	Intel® SSE4.1, Intel® SSE4.2, Intel® AVX2
135H	Intel® Core™ Ultra	Series 1	N/A	5	2023	Intel 4	14	4	8	2	18	4.6 GHz ^{2,4}	18 MB	28 W	20 W	96 GB	Up to LPDDR5/x 7467 MT/s Up to DDR5 5600 MT/s	Intel® Arc™ graphics	2.2 GHz	HDMI: 4096 x 2304 @ 60Hz (HDMI 2.1 TMDS) 7680 x 4320 @ 60Hz (HDMI2.1 FRL) DP: 7680 x 4320 @ 60Hz eDP: 3840x2400 @ 120Hz	Yes	Intel® SSE4.1, Intel® SSE4.2, Intel® AVX2
125H	Intel® Core™ Ultra	Series 1	N/A	5	2023	Intel 4	14	4	8	2	18	4.5 GHz ^{2,4}	18 MB	28 W	20 W	96 GB	Up to LPDDR5/x 7467 MT/s Up to DDR5 5600 MT/s	Intel® Arc™ graphics	2.2 GHz	HDMI: 4096 x 2304 @ 60Hz (HDMI 2.1 TMDS) 7680 x 4320 @ 60Hz (HDMI2.1 FRL) DP: 7680 x 4320 @ 60Hz eDP: 3840x2400 @ 120Hz	Yes	Intel® SSE4.1, Intel® SSE4.2, Intel® AVX2
165U	Intel® Core™ Ultra	Series 1	N/A	7	2023	Intel 4	12	2	8	2	14	4.9 GHz ^{2,4}	12 MB	15 W	12 W	96 GB	Up to LPDDR5/x 7467 MT/s Up to DDR5 5600 MT/s	Intel® Graphics	2 GHz	HDMI: 4096 x 2304 @ 60Hz (HDMI 2.1 TMDS) 7680 x 4320 @ 60Hz (HDMI2.1 FRL) DP: 7680 x 4320 @ 60Hz eDP: 3840x2400 @ 120Hz	Yes	Intel® SSE4.1, Intel® SSE4.2, Intel® AVX2
164U	Intel® Core™ Ultra	Series 1	N/A	7	2023	Intel 4	12	2	8	2	14	4.8 GHz ^{2,4}	12 MB	9 W	N/A	64 GB	Up to LPDDR5/x 6400 MT/s	Intel® Graphics	1.8 GHz	HDMI: 4096 x 2304 @ 60Hz (HDMI 2.1 TMDS) 7680 x 4320 @ 60Hz (HDMI2.1 FRL) DP: 7680 x 4320 @ 60Hz eDP: 3840x2400 @ 120Hz	Yes	Intel® SSE4.1, Intel® SSE4.2, Intel® AVX2
155U	Intel® Core™ Ultra	Series 1	N/A	7	2023	Intel 4	12	2	8	2	14	4.8 GHz ^{2,4}	12 MB	15 W	12 W	96 GB	Up to LPDDR5/x 7467 MT/s Up to DDR5 5600 MT/s	Intel® Graphics	1.95 GHz	HDMI: 4096 x 2304 @ 60Hz (HDMI 2.1 TMDS) 7680 x 4320 @ 60Hz (HDMI2.1 FRL) DP: 7680 x 4320 @ 60Hz eDP: 3840x2400 @ 120Hz	Yes	Intel® SSE4.1, Intel® SSE4.2, Intel® AVX2
135U	Intel® Core™ Ultra	Series 1	N/A	5	2023	Intel 4	12	2	8	2	14	4.4 GHz ^{2,4}	12 MB	15 W	12 W	96 GB	Up to LPDDR5/x 7467 MT/s Up to DDR5 5600 MT/s	Intel® Graphics	1.9 GHz	HDMI: 4096 x 2304 @ 60Hz (HDMI 2.1 TMDS) 7680 x 4320 @ 60Hz (HDMI2.1 FRL) DP: 7680 x 4320 @ 60Hz eDP: 3840x2400 @ 120Hz	Yes	Intel® SSE4.1, Intel® SSE4.2, Intel® AVX2
134U	Intel® Core™ Ultra	Series 1	N/A	5	2023	Intel 4	12	2	8	2	14	4.4 GHz ^{2,4}	12 MB	9 W	N/A	64 GB	Up to LPDDR5/x 6400 MT/s	Intel® Graphics	1.75 GHz	HDMI: 4096 x 2304 @ 60Hz (HDMI 2.1 TMDS) 7680 x 4320 @ 60Hz (HDMI2.1 FRL) DP: 7680 x 4320 @ 60Hz eDP: 3840x2400 @ 120Hz	Yes	Intel® SSE4.1, Intel® SSE4.2, Intel® AVX2
125U	Intel® Core™ Ultra	Series 1	N/A	5	2023	Intel 4	12	2	8	2	14	4.3 GHz ^{2,4}	12 MB	15 W	12 W	96 GB	Up to LPDDR5/x 7467 MT/s Up to DDR5 5600 MT/s	Intel® Graphics	1.85 GHz	HDMI: 4096 x 2304 @ 60Hz (HDMI 2.1 TMDS) 7680 x 4320 @ 60Hz (HDMI2.1 FRL) DP: 7680 x 4320 @ 60Hz eDP: 3840x2400 @ 120Hz	Yes	Intel® SSE4.1, Intel® SSE4.2, Intel® AVX2
U300	Intel® Processor	U-series	N/A	N/A	2023	Intel 7	5	1	4	N/A	6	4.40 GHz ²	8 MB	15 W	12 W	96 GB	Up to DDR5 5200 MT/s Up to DDR4 3200 MT/s Up to LPDDR5/x 5200 MT/s Up to LPDDR4x 4267 MT/s	Intel® UHD Graphics for 13th Gen Intel® Processors	1.10 GHz	HDMI: 4096 x 2304 @ 60Hz DP: 7680 x 4320 @ 60Hz	No	Intel® SSE4.1, Intel® SSE4.2, Intel® AVX2
N100	Intel® Processor	N-series	N/A	N/A	2023	Intel 7	4	N/A	N/A	N/A	4	3.40 GHz	6 MB	6 W	N/A	16 GB	DDR4 3200 MT/s DDR5 4800 MT/s LPDDR5 4800 MT/s	Intel® UHD Graphics	750 MHz	HDMI: 4096 x 2160@60Hz DP: 4096 x 2160@60Hz	No	Intel® SSE4.1, Intel® SSE4.2, Intel® AVX2
N200	Intel® Processor	N-series	N/A	N/A	2023	Intel 7	4	N/A	N/A	N/A	4	3.70 GHz	6 MB	6 W	N/A	16 GB	DDR4 3200 MT/s DDR5 4800 MT/s LPDDR5 4800 MT/s	Intel® UHD Graphics	750 MHz	HDMI: 4096 x 2160@60Hz DP: 4096 x 2160@60Hz	No	Intel® SSE4.1, Intel® SSE4.2, Intel® AVX2
i3-N305	Intel® Core™	N-series	N/A	i3	2023	Intel 7	8	N/A	N/A	N/A	8	3.80 GHz	6 MB	15 W	9 W	16 GB	DDR4 3200 MT/s DDR5 4800 MT/s LPDDR5 4800 MT/s	Intel® UHD Graphics	1.25 GHz	HDMI: 4096 x 2160@60Hz DP: 4096 x 2160@60Hz	No	Intel® SSE4.1, Intel® SSE4.2, Intel® AVX2
i3-N300	Intel® Core™	N-series	N/A	i3	2023	Intel 7	8	N/A	N/A	N/A	8	3.80 GHz	6 MB	7 W	N/A	16 GB	DDR4 3200 MT/s DDR5 4800 MT/s LPDDR5 4800 MT/s	Intel® UHD Graphics	1.25 GHz	HDMI: 4096 x 2160@60Hz DP: 4096 x 2160@60Hz	No	Intel® SSE4.1, Intel® SSE4.2, Intel® AVX2
i50U	Intel® Core™	Series 1	N/A	7	2024	Intel 7	10	2	8	N/A	12	5.4 GHz ²	12 MB	15 W	12 W	96 GB	Up to DDR5 5200 MT/s Up to DDR4 3200 MT/s Up to LPDDR5/x 6400 MT/s Up to LPDDR4x 4267 MT/s	Intel® Graphics	1.3 GHz	HDMI: 4096 x 2304 @ 60Hz DP: 7680 x 4320 @ 60Hz eDP: 4096 x 2304 @ 120Hz ¹	Yes	Intel® SSE4.1, Intel® SSE4.2, Intel® AVX2
i30U	Intel® Core™	Series 1	N/A	5	2024	Intel 7	10	2	8	N/A	12	5 GHz ²	12 MB	15 W	12 W	96 GB	Up to DDR5 5200 MT/s Up to DDR4 3200 MT/s Up to LPDDR5/x 6400 MT/s Up to LPDDR4x 4267 MT/s	Intel® Graphics	1.25 GHz	HDMI: 4096 x 2304 @ 60Hz DP: 7680 x 4320 @ 60Hz eDP: 4096 x 2304 @ 120Hz ¹	Yes	Intel® SSE4.1, Intel® SSE4.2, Intel® AVX2
i30U	Intel® Core™	Series 1	N/A	3	2024	Intel 7	6	2	4	N/A	8	4.7 GHz ²	10 MB	15 W	12 W	96 GB	Up to DDR4 3200 MT/s Up to LPDDR5/x 5200 MT/s Up to LPDDR4x 4267 MT/s	Intel® Graphics	1.25 GHz	HDMI: 4096 x 2304 @ 60Hz DP: 7680 x 4320 @ 60Hz eDP: 4096 x 2304 @ 120Hz ¹	No	Intel® SSE4.1, Intel® SSE4.2, Intel® AVX2
P-14500HX	Intel® Core™	N/A	14th	i9	2024	Intel 7	24	8	16	N/A	32	5.80 GHz ^{3,4}	36 MB	55 W	45 W	192 GB	Up to DDR5 5600 MT/s Up to DDR4 3200 MT/s	Intel® UHD for 14th Gen	1.65 GHz	HDMI: 4096 x 2160 @ 60Hz DP: 7680 x 4320 @ 60Hz eDP: 5120 x 3200 @ 120Hz ¹	No	Intel® SSE4.1, Intel® SSE4.2, Intel® AVX2
i7-14700HX	Intel® Core™	N/A	14th	i7	2024	Intel 7	20	8	12	N/A	28	5.50 GHz ^{3,4}	33 MB	55 W	45 W	192 GB	Up to DDR5 5600 MT/s Up to DDR4 3200 MT/s	Intel® UHD for 14th Gen	1.60 GHz	HDMI: 4096 x 2160 @ 60Hz DP: 7680 x 4320 @ 60Hz eDP: 5120 x 3200 @ 120Hz ¹	No	Intel® SSE4.1, Intel® SSE4.2, Intel® AVX2
i7-14650HX	Intel® Core™	N/A	14th	i7	2024	Intel 7	16	8	8	N/A	24	5.20 GHz ^{3,4}	30 MB	55 W	45 W	192 GB	Up to DDR5 5600 MT/s Up to DDR4 3200 MT/s	Intel® UHD for 14th Gen	1.60 GHz	HDMI: 4096 x 2160 @ 60Hz DP: 7680 x 4320 @ 60Hz eDP: 5120 x 3200 @ 120Hz ¹	No	Intel® SSE4.1, Intel® SSE4.2, Intel® AVX2

I7-4910MQ	Intel® Core™	N/A	4th	i7	2014	22 nm	4	N/A	N/A	N/A	8	3.90 GHz ¹	8 MB	47 W	N/A	32 GB	Up to [DDR3L 1333/1600]	Intel® HD Graphics 4600	1.30 GHz	HDMI: 3840x2160@30Hz DP: 3840x2160@60Hz	Yes	Intel® SSE4.1, Intel® SSE4.2, Intel® AVX2
I7-4870HQ	Intel® Core™	N/A	4th	i7	2014	22 nm	4	N/A	N/A	N/A	8	3.70 GHz ¹	6 MB	47 W	N/A	32 GB	Up to [DDR3L 1333/1600]	Intel® Iris™ Pro Graphics 5200	1.20 GHz	HDMI: 2560x1600@60Hz DP: 3840x2160@60Hz	Yes	Intel® SSE4.1, Intel® SSE4.2, Intel® AVX2
I7-4860HQ	Intel® Core™	N/A	4th	i7	2014	22 nm	4	N/A	N/A	N/A	8	3.60 GHz ¹	6 MB	47 W	N/A	32 GB	Up to [DDR3L 1333/1600]	Intel® Iris™ Pro Graphics 5200	1.20 GHz	HDMI: 2560x1600@60Hz DP: 3840x2160@60Hz	Yes	Intel® SSE4.1, Intel® SSE4.2, Intel® AVX2
I7-4810MQ	Intel® Core™	N/A	4th	i7	2014	22 nm	4	N/A	N/A	N/A	8	3.80 GHz ¹	6 MB	47 W	N/A	32 GB	Up to [DDR3L 1333/1600]	Intel® HD Graphics 4600	1.30 GHz	HDMI: 2560x1600@60Hz DP: 3840x2160@60Hz	Yes	Intel® SSE4.1, Intel® SSE4.2, Intel® AVX2
I7-4720HQ	Intel® Core™	N/A	4th	i7	2014	22 nm	4	N/A	N/A	N/A	8	3.40 GHz ¹	6 MB	47 W	N/A	32 GB	Up to [DDR3L 1333/1600]	Intel® Iris™ Pro Graphics 5200	1.20 GHz	HDMI: 3840x2160@30Hz DP: 3840x2160@60Hz	No	Intel® SSE4.1, Intel® SSE4.2, Intel® AVX2
I7-4760HQ	Intel® Core™	N/A	4th	i7	2014	22 nm	4	N/A	N/A	N/A	8	3.30 GHz ¹	6 MB	47 W	N/A	32 GB	Up to [DDR3L 1333/1600]	Intel® Iris™ Pro Graphics 5200	1.20 GHz	HDMI: 3840x2160@30Hz DP: 3840x2160@60Hz	No	Intel® SSE4.1, Intel® SSE4.2, Intel® AVX2
I7-4712MQ	Intel® Core™	N/A	4th	i7	2014	22 nm	4	N/A	N/A	N/A	8	3.30 GHz ¹	6 MB	37 W	N/A	32 GB	Up to [DDR3L 1333/1600]	Intel® HD Graphics 4600	1.15 GHz	HDMI: 3840x2160@30Hz DP: 3840x2160@60Hz	No	Intel® SSE4.1, Intel® SSE4.2, Intel® AVX2
I7-4712HQ	Intel® Core™	N/A	4th	i7	2014	22 nm	4	N/A	N/A	N/A	8	3.30 GHz ¹	6 MB	37 W	N/A	32 GB	Up to [DDR3L 1333/1600]	Intel® HD Graphics 4600	1.15 GHz	HDMI: 3840x2160@30Hz DP: 3840x2160@60Hz	No	Intel® SSE4.1, Intel® SSE4.2, Intel® AVX2
I7-4710MQ	Intel® Core™	N/A	4th	i7	2014	22 nm	4	N/A	N/A	N/A	8	3.50 GHz ¹	6 MB	47 W	N/A	32 GB	Up to [DDR3L 1333/1600]	Intel® HD Graphics 4600	1.15 GHz	HDMI: 3840x2160@30Hz DP: 3840x2160@60Hz	No	Intel® SSE4.1, Intel® SSE4.2, Intel® AVX2
I7-4710HQ	Intel® Core™	N/A	4th	i7	2014	22 nm	4	N/A	N/A	N/A	8	3.50 GHz ¹	6 MB	47 W	N/A	32 GB	Up to [DDR3L 1333/1600]	Intel® HD Graphics 4600	1.20 GHz	HDMI: 3840x2160@30Hz DP: 3840x2160@60Hz	No	Intel® SSE4.1, Intel® SSE4.2, Intel® AVX2
I7-4610M	Intel® Core™	N/A	4th	i7	2014	22 nm	2	N/A	N/A	N/A	4	3.70 GHz ¹	4 MB	37 W	N/A	32 GB	Up to [DDR3L 1333/1600]	Intel® HD Graphics 4600	1.30 GHz	DP: 4096 x 2160@30Hz	Yes	Intel® SSE4.1, Intel® SSE4.2, Intel® AVX2
I7-4528U	Intel® Core™	N/A	4th	i7	2014	22 nm	2	N/A	N/A	N/A	4	3.50 GHz ¹	4 MB	28 W	N/A	16 GB	Up to [DDR3L 1333, 1600; LPDDR3 1333, 1600]	Intel® Iris™ Graphics 5100	1.20 GHz	HDMI: 3200x2000@60Hz DP: 3200x2000@60Hz	No	Intel® SSE4.1, Intel® SSE4.2, Intel® AVX2
I7-4510U	Intel® Core™	N/A	4th	i7	2014	22 nm	2	N/A	N/A	N/A	4	3.10 GHz ¹	4 MB	15 W	N/A	16 GB	Up to [DDR3L 1333/1600; LPDDR3 1333/1600]	Intel® HD Graphics 4400	1.10 GHz	HDMI: 3200x2000@60Hz DP: 3200x2000@60Hz	No	Intel® SSE4.1, Intel® SSE4.2, Intel® AVX2
I5-4360U	Intel® Core™	N/A	4th	i5	2014	22 nm	2	N/A	N/A	N/A	4	3.00 GHz ¹	3 MB	15 W	N/A	16 GB	Up to [DDR3L 1333/1600; LPDDR3 1333/1600]	Intel® HD Graphics 5000	1.10 GHz	HDMI: 3200x2000@60Hz DP: 3200x2000@60Hz	Yes	Intel® SSE4.1, Intel® SSE4.2, Intel® AVX2
I5-4340M	Intel® Core™	N/A	4th	i5	2014	22 nm	2	N/A	N/A	N/A	4	3.60 GHz ¹	3 MB	37 W	N/A	32 GB	Up to [DDR3L 1333/1600]	Intel® HD Graphics 4600	1.25 GHz	HDMI: 3840x2160@60Hz DP: 3840x2160@60Hz	Yes	Intel® SSE4.1, Intel® SSE4.2, Intel® AVX2
I5-4310U	Intel® Core™	N/A	4th	i5	2014	22 nm	2	N/A	N/A	N/A	4	3.00 GHz ¹	3 MB	15 W	N/A	16 GB	Up to [DDR3L 1333/1600; LPDDR3 1333/1600]	Intel® HD Graphics 4400	1.10 GHz	HDMI: 3200x2000@60Hz DP: 3200x2000@60Hz	Yes	Intel® SSE4.1, Intel® SSE4.2, Intel® AVX2
I5-4310M	Intel® Core™	N/A	4th	i5	2014	22 nm	2	N/A	N/A	N/A	4	3.40 GHz ¹	3 MB	37 W	N/A	32 GB	Up to [DDR3L 1333/1600]	Intel® HD Graphics 4600	1.25 GHz	HDMI: 3840x2160@60Hz DP: 3840x2160@60Hz	Yes	Intel® SSE4.1, Intel® SSE4.2, Intel® AVX2
I5-4308U	Intel® Core™	N/A	4th	i5	2014	22 nm	2	N/A	N/A	N/A	4	3.30 GHz ¹	3 MB	28 W	N/A	16 GB	Up to [DDR3L 1333, 1600; LPDDR3 1333, 1600]	Intel® Iris™ Graphics 5100	1.20 GHz	HDMI: 3200x2000@60Hz DP: 3200x2000@60Hz	No	Intel® SSE4.1, Intel® SSE4.2, Intel® AVX2
I5-4278U	Intel® Core™	N/A	4th	i5	2014	22 nm	2	N/A	N/A	N/A	4	3.10 GHz ¹	3 MB	28 W	N/A	16 GB	Up to [DDR3L 1333, 1600; LPDDR3 1333, 1600]	Intel® Iris™ Graphics 5100	1.10 GHz	HDMI: 3200x2000@60Hz DP: 3200x2000@60Hz	No	Intel® SSE4.1, Intel® SSE4.2, Intel® AVX2
I5-4260U	Intel® Core™	N/A	4th	i5	2014	22 nm	2	N/A	N/A	N/A	4	2.70 GHz ¹	3 MB	15 W	N/A	16 GB	Up to [DDR3L 1333/1600; LPDDR3 1333/1600]	Intel® HD Graphics 5000	1.00 GHz	HDMI: 3200x2000@60Hz DP: 3200x2000@60Hz	No	Intel® SSE4.1, Intel® SSE4.2, Intel® AVX2
I5-4210V	Intel® Core™	N/A	4th	i5	2014	22 nm	2	N/A	N/A	N/A	4	2.00 GHz ¹	3 MB	11.5 W	N/A	16 GB	Up to [DDR3L 1333/1600; LPDDR3 1333/1600]	Intel® HD Graphics 4200	850 MHz	HDMI: 2560x1600@60Hz DP: 2560x1600@60Hz	No	Intel® SSE4.1, Intel® SSE4.2, Intel® AVX2
I5-4210U	Intel® Core™	N/A	4th	i5	2014	22 nm	2	N/A	N/A	N/A	4	2.70 GHz ¹	3 MB	15 W	N/A	16 GB	Up to [DDR3L 1333/1600; LPDDR3 1333/1600]	Intel® HD Graphics 4400	1.00 GHz	HDMI: 3200x2000@60Hz DP: 3200x2000@60Hz	No	Intel® SSE4.1, Intel® SSE4.2, Intel® AVX2
I5-4210M	Intel® Core™	N/A	4th	i5	2014	22 nm	2	N/A	N/A	N/A	4	3.20 GHz ¹	3 MB	37 W	N/A	32 GB	Up to [DDR3L 1333/1600]	Intel® HD Graphics 4600	1.15 GHz	HDMI: 3840x2160@60Hz DP: 3840x2160@60Hz	No	Intel® SSE4.1, Intel® SSE4.2, Intel® AVX2
I5-4210H	Intel® Core™	N/A	4th	i5	2014	22 nm	2	N/A	N/A	N/A	4	3.50 GHz ¹	3 MB	47 W	N/A	32 GB	Up to [DDR3L 1333/1600]	Intel® HD Graphics 4600	1.15 GHz	HDMI: 3840x2160@60Hz DP: 3840x2160@60Hz	No	Intel® SSE4.1, Intel® SSE4.2, Intel® AVX2
I3-4120U	Intel® Core™	N/A	4th	i3	2014	22 nm	2	N/A	N/A	N/A	4	N/A	3 MB	15 W	N/A	16 GB	Up to [DDR3L 1333/1600; LPDDR3 1333/1600]	Intel® HD Graphics 4400	1.00 GHz	HDMI: 3200x2000@60Hz DP: 3200x2000@60Hz	No	Intel® SSE4.1, Intel® SSE4.2, Intel® AVX2
I3-4110M	Intel® Core™	N/A	4th	i3	2014	22 nm	2	N/A	N/A	N/A	4	N/A	3 MB	37 W	N/A	32 GB	Up to [DDR3L 1333/1600]	Intel® HD Graphics 4600	1.10 GHz	HDMI: 3840x2160@60Hz DP: 3840x2160@60Hz	No	Intel® SSE4.1, Intel® SSE4.2, Intel® AVX2
I3-4030V	Intel® Core™	N/A	4th	i3	2014	22 nm	2	N/A	N/A	N/A	4	N/A	3 MB	11.5 W	N/A	16 GB	Up to [DDR3L 1333/1600; LPDDR3 1333/1600]	Intel® HD Graphics 4200	850 MHz	HDMI: 2560x1600@60Hz DP: 2560x1600@60Hz	No	Intel® SSE4.1, Intel® SSE4.2, Intel® AVX2
I3-4030U	Intel® Core™	N/A	4th	i3	2014	22 nm	2	N/A	N/A	N/A	4	N/A	3 MB	15 W	N/A	16 GB	Up to [DDR3L 1333/1600; LPDDR3 1333/1600]	Intel® HD Graphics 4400	1.00 GHz	HDMI: 3200x2000@60Hz DP: 3200x2000@60Hz	No	Intel® SSE4.1, Intel® SSE4.2, Intel® AVX2
I3-4025U	Intel® Core™	N/A	4th	i3	2014	22 nm	2	N/A	N/A	N/A	4	N/A	3 MB	15 W	N/A	16 GB	Up to [DDR3L 1333/1600; LPDDR3 1333/1600]	Intel® HD Graphics 4400	950 MHz	HDMI: 3200x2000@60Hz DP: 3200x2000@60Hz	No	Intel® SSE4.1, Intel® SSE4.2, Intel® AVX2

¹Intel® Turbo Boost Technology 2.0 Frequency

²Intel® Turbo Boost Max Technology 3.0 Frequency

³Intel® Thermal Velocity Boost Frequency

⁴Max Turbo Frequency only applies on performance-cores for 12th, 13th, and 14th Gen Intel® Core™ Processors

⁵Type and speed of memory can vary between laptops

⁶This Processor is available also without IPU (Intel® Image Processing Unit) and no LPDDR5

⁷This Processor is available also without IPU (Intel® Image Processing Unit) and no minimum assured power set