



List of HD Graphics for Intel® Core™ Desktop Processors for i9

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Processor Number	Brand Modifier	Intel® Core™ Generation	# of Cores	Max Turbo Frequency (GHz)	Cache (MB)	Processor Base Power (previously Thermal Design Power (TDP)) (W)	Max Memory Size (dependent on memory type) GB	Memory Types	Supported Socket	Intel® Processor Graphics	Graphics Max Dynamic Frequency (GHz)	Max Resolution for HDMI, Max Resolution for DP, Max Resolution for (eDP - Integrated Flat Panel)
i9-13900KS	i9	13th	24	6.00	36	150	128	Up to DDR5 5600 Up to DDR4 3200	LGA1700	UHD 770	1.65	HDMI: 4096 x 2160 @ 60Hz DP: 7680 x 4320 @ 60Hz eDP: 5120 x 3200 @ 120Hz
i9-13900F	i9	13th	24	5.60	36	65	128	Up to DDR5 5600, Up to DDR4 3200	LGA1700	No*	N/A	N/A
i9-13900	i9	13th	24	5.60	36	65	128	Up to DDR5 5600, Up to DDR4 3200	LGA1700	UHD 770	1.65	HDMI: 4096 x 2160 @ 60Hz DP: 7680 x 4320 @ 60Hz eDP: 5120 x 3200 @ 120Hz
i9-13900T	i9	13th	24	5.30	36	35	128	Up to DDR5 5600, Up to DDR4 3200	LGA1700	UHD 770	1.65	HDMI: 4096 x 2160 @ 60Hz DP: 7680 x 4320 @ 60Hz eDP: 5120 x 3200 @ 120Hz
i9-13900K	i9	13th	24	5.80	36	125	128	Up to DDR5 5600, Up to DDR4 3200	LGA1700	UHD 770	1.65	HDMI: 4096 x 2160 @ 60Hz DP: 7680 x 4320 @ 60Hz eDP: 5120 x 3200 @ 120Hz
i9-13900KF	i9	13th	24	5.80	36	125	128	Up to DDR5 5600, Up to DDR4 3200	LGA1700	No*	N/A	N/A
i9-12900KS	i9	12th	16	5.50	30	150	128	Up to DDR5-4800, Up to DDR4-3200	LGA1700	UHD 770	1.55	HDMI: 4096 x 2160 @ 60Hz DP: 7680 x 4320 @ 60Hz eDP: 5120 x 3200 @ 120Hz
i9-12900K	i9	12th	16	5.20	30	125	128	Up to DDR5-4800, Up to DDR4-3200	LGA1700	UHD 770	1.55	HDMI: 4096 x 2160 @ 60Hz DP: 7680 x 4320 @ 60Hz eDP: 5120 x 3200 @ 120Hz
i9-12900KF	i9	12th	16	5.20	30	125	128	Up to DDR5-4800, Up to DDR4-3200	LGA1700	No*	N/A	N/A
i9-12900F	i9	12th	16	5.10	30	65	128	Up to DDR5-4800, Up to DDR4-3200	LGA1700	No*	N/A	N/A
i9-12900	i9	12th	16	5.10	30	65	128	Up to DDR5-4800, Up to DDR4-3200	LGA1700	UHD 770	1.55	HDMI: 4096 x 2160 @ 60Hz DP: 7680 x 4320 @ 60Hz eDP: 5120 x 3200 @ 120Hz
i9-12900T	i9	12th	16	4.90	30	35	128	Up to DDR5-4800, Up to DDR4-3200	LGA1700	UHD 770	1.55	HDMI: 4096 x 2160 @ 60Hz DP: 7680 x 4320 @ 60Hz eDP: 5120 x 3200 @ 120Hz
i9-11900T	i9	11th	8	4.90	16	35	128	DDR4-3200	LGA1200	UHD 750	1.30	HDMI: 4096 x 2160 @ 60Hz DP: 5120 x 3200 @ 60Hz eDP: 5120 x 3200 @ 60Hz
i9-11900KF	i9	11th	8	5.20	16	125	128	DDR4-3200	LGA1200	No*	N/A	N/A
i9-11900K	i9	11th	8	5.30	16	125	128	DDR4-3200	LGA1200	UHD 750	1.30	HDMI: 4096 x 2160 @ 60Hz DP: 5120 x 3200 @ 60Hz eDP: 5120 x 3200 @ 60Hz
i9-11900F	i9	11th	8	5.20	16	65	128	DDR4-3200	LGA1200	No*	N/A	N/A
i9-11900	i9	11th	8	5.20	16	65	128	DDR4-3200	LGA1200	UHD 750	1.30	HDMI: 4096 x 2160 @ 60Hz DP: 5120 x 3200 @ 60Hz eDP: 5120 x 3200 @ 60Hz
i9-10850K	i9	10th	10	5.20	20	125	128	DDR4-2933	LGA1200	UHD 630	1.20	HDMI: 4096 x 2160 @ 30Hz DP: 4096 x 2304 @ 60Hz eDP: 4096 x 2304 @ 60Hz
i9-10900T	i9	10th	10	4.60	20	35	128	DDR4-2933	LGA1200	UHD 630	1.20	HDMI: 4096 x 2160 @ 30Hz DP: 4096 x 2304 @ 60Hz eDP: 4096 x 2304 @ 60Hz
i9-10900KF	i9	10th	10	5.30	20	125	128	DDR4-2933	LGA1200	No*	N/A	N/A
i9-10900K	i9	10th	10	5.30	20	125	128	DDR4-2933	LGA1200	UHD 630	1.20	HDMI: 4096 x 2160 @ 30Hz DP: 4096 x 2304 @ 60Hz eDP: 4096 x 2304 @ 60Hz
i9-10900F	i9	10th	10	5.20	20	65	128	DDR4-2933	LGA1200	No*	N/A	N/A
i9-10900	i9	10th	10	5.20	20	65	128	DDR4-2933	LGA1200	UHD 630	1.20	HDMI: 4096 x 2160 @ 30Hz DP: 4096 x 2304 @ 60Hz eDP: 4096 x 2304 @ 60Hz

i9-9900KS	i9	9th	8	5.00	16	127	128	DDR4-2666	LGA1151	UHD 630	1.20	HDMI: 4096 x 2304 @ 24Hz DP: 4096 x 2304 @ 60Hz eDP: 4096 x 2304 @ 60Hz
i9-10980XE	i9	X-series	18	4.80	24.75	165	256	DDR4-2933	LGA2066	No*	N/A	N/A
i9-10940X	i9	X-series	14	4.80	19.25	165	256	DDR4-2933	LGA2066	No*	N/A	N/A
i9-10920X	i9	X-series	12	4.80	19.25	165	256	DDR4-2933	LGA2066	No*	N/A	N/A
i9-10900X	i9	X-series	10	4.70	19.25	165	256	DDR4-2933	LGA2066	No*	N/A	N/A
i9-9900T	i9	9th	8	4.40	16	35	128	DDR4-2666	LGA1151	UHD 630	1.20	HDMI: 4096 x 2304 @ 24Hz DP: 4096 x 2304 @ 60Hz eDP: 4096 x 2304 @ 60Hz
i9-9900	i9	9th	8	5.00	16	65	128	DDR4-2666	LGA1151	UHD 630	1.20	HDMI: 4096 x 2304 @ 24Hz DP: 4096 x 2304 @ 60Hz eDP: 4096 x 2304 @ 60Hz
i9-9900KF	i9	9th	8	5.00	16	95	128	DDR4-2666	LGA1151	No*	N/A	N/A
i9-9880XE	i9	X-series	18	4.50	24.75	165	128	DDR4-2666	LGA2066	No*	N/A	N/A
i9-9960X	i9	X-series	16	4.50	22	165	128	DDR4-2666	LGA2066	No*	N/A	N/A
i9-9940X	i9	X-series	14	4.50	19.25	165	128	DDR4-2666	LGA2066	No*	N/A	N/A
i9-9920X	i9	X-series	12	4.50	19.25	165	128	DDR4-2666	LGA2066	No*	N/A	N/A
i9-9900X	i9	X-series	10	4.50	19.25	165	128	DDR4-2666	LGA2066	No*	N/A	N/A
i9-9900K	i9	9th	8	5.00	16	95	128	DDR4-2666	LGA1151	UHD 630	1.20	HDMI: 4096 x 2304 @ 24Hz DP: 4096 x 2304 @ 60Hz eDP: 4096 x 2304 @ 60Hz
i9-9820X	i9	X-series	10	4.20	16.5	165	128	DDR4-2666	LGA2066	No*	N/A	N/A
i9-7980XE	i9	X-series	18	4.20	24.75	165	128	DDR4-2666	LGA2066	No*	N/A	N/A
i9-7960X	i9	X-series	16	4.20	22	165	128	DDR4-2666	LGA2066	No*	N/A	N/A
i9-7940X	i9	X-series	14	4.30	19.25	165	128	DDR4-2666	LGA2066	No*	N/A	N/A
i9-7920X	i9	X-series	12	4.30	16.5	140	128	DDR4-2666	LGA2066	No*	N/A	N/A
i9-7900X	i9	X-series	10	4.30	13.75	140	128	DDR4-2666	LGA2066	No*	N/A	N/A

* Discrete Graphics Required