

Comparison of Intel® Desktop Core™ Processors

Last Updated: February 2021

Product Collection	Processor Number	Quarter Launch	Year Launch	Lithography (nm)	# of Cores	# of Threads	Processor Base Frequency (GHz)	Cache (MB)	TDP (W)	Max Turbo Frequency (GHz)	Memory Types	Max # of Memory Channels	Intel® Processor Graphics	Graphics Base Frequency (MHz)	Graphics Max Dynamic Frequency (GHz)	Sockets Supported	Intel® Turbo Boost Technology	Intel® vPro™ Platform Eligibility	Hyper-Threading Technology	Virtualization Technology (VT-x)	AES New Instructions
3rd Gen	15-3140S	Q3 2013	22	4	4	2.80	6	65	3.30	3.30	DDR3 1333/1600	2	HD 2500	650	1.05	FCGA1155	2	No	No	Yes	Yes
3rd Gen	15-3140	Q3 2013	22	4	4	3.10	6	77	3.30	3.30	DDR3 1333/1600	2	HD 2500	650	1.05	FCGA1155	2	No	No	Yes	Yes
X-series	17-4920	Q2 2013	22	4	4	3.30	6	130	3.30	3.30	DDR3 1333/1600/1866	4	N/A	N/A	N/A	FCGA2011	2.0	No	No	Yes	Yes
X-series	17-4930X	Q3 2013	22	6	12	3.40	12	130	3.50	3.50	DDR3 1333/1600/1866	4	N/A	N/A	N/A	FCGA2011	2.0	No	No	Yes	Yes
X-series	17-4960X	Q3 2013	22	6	12	3.60	15	130	4.00	4.00	DDR3 1333/1600/1866	4	N/A	N/A	N/A	FCGA2011	2.0	No	No	Yes	Yes
3rd Gen	15-3220T	Q2 2013	22	2	4	3.40	3	35	N/A	N/A	DDR3 1333/1600	2	HD 2500	650	1.05	FCGA1155	No	No	Yes	Yes	
3rd Gen	15-3240	Q2 2013	22	2	4	3.50	3	35	N/A	N/A	DDR3 1333/1600	2	HD 2500	650	1.05	FCGA1155	No	No	Yes	Yes	
3rd Gen	15-3245	Q2 2013	22	2	4	3.40	3	35	N/A	N/A	DDR3 1333/1600	2	HD 4000	650	1.05	FCGA1155	No	No	Yes	Yes	
3rd Gen	15-3210	Q1 2013	22	2	4	3.20	3	35	N/A	N/A	DDR3 1333/1600	2	HD 2500	650	1.05	FCGA1155	No	No	Yes	Yes	
X-series	17-5070X	Q4 2012	22	4	4	3.50	3	35	N/A	N/A	DDR3 1333/1600	2	N/A	N/A	N/A	FCGA2011	2.0	No	No	Yes	Yes
3rd Gen	15-3300P	Q2 2012	22	4	4	3.10	6	69	3.30	3.30	DDR3 1333/1600	2	N/A	N/A	N/A	FCGA1155	2.0	No	No	Yes	Yes
3rd Gen	15-3330S	Q3 2012	22	4	4	2.70	6	65	3.20	3.20	DDR3 1333/1600	2	HD 2500	650	1.05	FCGA1155	2	No	No	Yes	Yes
3rd Gen	15-3330	Q3 2012	22	4	4	3.00	6	77	3.20	3.20	DDR3 1333/1600	2	HD 2500	650	1.05	FCGA1155	2	No	No	Yes	Yes
3rd Gen	15-3400T	Q2 2012	22	2	4	2.90	3	35	N/A	N/A	DDR3 1333/1600	2	HD 2500	650	1.05	FCGA1155	No	No	Yes	Yes	
3rd Gen	15-3240	Q2 2012	22	2	4	3.40	3	35	N/A	N/A	DDR3 1333/1600	2	HD 2500	650	1.05	FCGA1155	No	No	Yes	Yes	
3rd Gen	15-3222	Q2 2012	22	2	4	3.30	3	35	N/A	N/A	DDR3 1333/1600	2	HD 4000	650	1.05	FCGA1155	No	No	Yes	Yes	
3rd Gen	15-3220T	Q2 2012	22	2	4	2.80	3	35	N/A	N/A	DDR3 1333/1600	2	HD 2500	650	1.05	FCGA1155	No	No	Yes	Yes	
3rd Gen	15-3222	Q2 2012	22	2	4	3.30	3	35	N/A	N/A	DDR3 1333/1600	2	HD 2500	650	1.05	FCGA1155	No	No	Yes	Yes	
3rd Gen	15-3570S	Q2 2012	22	4	4	3.10	6	65	3.80	3.80	DDR3 1333/1600	2	HD 2500	650	1.15	FCGA1155	2	Yes	No	Yes	Yes
3rd Gen	15-3570	Q2 2012	22	4	4	3.40	6	77	3.80	3.80	DDR3 1333/1600	2	HD 2500	650	1.15	FCGA1155	2	Yes	No	Yes	Yes
3rd Gen	15-3475T	Q2 2012	22	4	4	2.90	6	65	3.60	3.60	DDR3 1333/1600	2	HD 4000	650	1.15	FCGA1155	2	Yes	No	Yes	Yes
3rd Gen	15-3470T	Q2 2012	22	2	4	2.90	3	35	3.60	3.60	DDR3 1333/1600	2	HD 2500	650	1.10	FCGA1155	2	Yes	No	Yes	Yes
3rd Gen	15-3470S	Q2 2012	22	4	4	2.90	6	65	3.60	3.60	DDR3 1333/1600	2	HD 2500	650	1.10	FCGA1155	2	Yes	No	Yes	Yes
3rd Gen	15-3470	Q2 2012	22	4	4	3.10	6	77	3.60	3.60	DDR3 1333/1600	2	HD 2500	650	1.10	FCGA1155	2	Yes	No	Yes	Yes
3rd Gen	17-5720T	Q2 2012	22	4	8	2.50	8	37.0	3.50	3.50	DDR3 1333/1600	4	N/A	N/A	N/A	FCGA1155	2.0	Yes	Yes	Yes	Yes
3rd Gen	17-5720	Q2 2012	22	4	8	3.10	8	37.0	3.50	3.50	DDR3 1333/1600	4	N/A	N/A	N/A	FCGA1155	2.0	Yes	Yes	Yes	Yes
3rd Gen	17-5770S	Q2 2012	22	4	8	3.10	8	37.0	3.50	3.50	DDR3 1333/1600	4	N/A	N/A	N/A	FCGA1155	2.0	Yes	Yes	Yes	Yes
3rd Gen	17-5770T	Q2 2012	22	4	8	3.50	8	37.0	3.50	3.50	DDR3 1333/1600	4	N/A	N/A	N/A	FCGA1155	2.0	Yes	Yes	Yes	Yes
3rd Gen	17-5770	Q2 2012	22	4	8	3.40	8	37.0	3.50	3.50	DDR3 1333/1600	4	N/A	N/A	N/A	FCGA1155	2.0	Yes	Yes	Yes	Yes
3rd Gen	15-3570T	Q2 2012	22	4	4	2.30	6	45	3.30	3.30	DDR3 1333/1600	2	HD 2500	650	1.15	FCGA1155	2	Yes	No	Yes	Yes
3rd Gen	15-3570X	Q2 2012	22	4	4	3.40	6	77	3.80	3.80	DDR3 1333/1600	2	HD 4000	650	1.15	FCGA1155	2	Yes	No	Yes	Yes
3rd Gen	15-3500S	Q2 2012	22	4	4	3.00	6	65	3.70	3.70	DDR3 1333/1600	2	HD 2500	650	1.15	FCGA1155	2	Yes	No	Yes	Yes
3rd Gen	15-3500	Q2 2012	22	4	4	3.30	6	77	3.70	3.70	DDR3 1333/1600	2	HD 2500	650	1.15	FCGA1155	2	Yes	No	Yes	Yes
3rd Gen	15-3450S	Q2 2012	22	4	4	2.80	6	65	3.50	3.50	DDR3 1333/1600	2	HD 2500	650	1.10	FCGA1155	2	Yes	No	Yes	Yes
3rd Gen	15-3450	Q2 2012	22	4	4	3.10	6	77	3.50	3.50	DDR3 1333/1600	2	HD 2500	650	1.10	FCGA1155	2	Yes	No	Yes	Yes
2nd Gen	15-2500S	Q1 2012	32	4	4	3.40	6	65	3.80	3.80	DDR3 1066/1333	2	N/A	N/A	N/A	IGA1155	2.0	No	No	Yes	Yes
2nd Gen	15-2450P	Q1 2012	32	4	4	3.20	6	65	3.50	3.50	DDR3 1066/1333	2	N/A	N/A	N/A	IGA1155	2.0	No	No	Yes	Yes
2nd Gen	15-2380P	Q1 2012	32	4	4	3.10	6	65	3.40	3.40	DDR3 1066/1333	2	N/A	N/A	N/A	IGA1155	2.0	No	No	Yes	Yes
X-series	17-5820T	Q1 2012	32	4	8	3.60	10	130	3.80	3.80	DDR3 1333/1600	4	N/A	N/A	N/A	FCGA2011	2.0	No	No	Yes	Yes
X-series	17-5820	Q1 2012	32	4	8	3.30	10	130	3.80	3.80	DDR3 1333/1600	4	N/A	N/A	N/A	FCGA2011	2.0	No	No	Yes	Yes
X-series	17-5930X	Q4 2011	32	6	12	3.20	12	130	3.80	3.80	DDR3 1066/1333/1600	4	N/A	N/A	N/A	FCGA2011	2.0	No	No	Yes	Yes
X-series	17-5960X	Q4 2011	32	6	12	3.30	15	130	3.90	3.90	DDR3 1066/1333/1600	4	N/A	N/A	N/A	FCGA2011	2.0	No	No	Yes	Yes
2nd Gen	15-2130	Q1 2011	32	4	4	3.30	6	65	3.30	3.30	DDR3 1066/1333	2	HD 2000	850	1.10	FCGA1155	2	Yes	No	Yes	Yes
2nd Gen	15-2132	Q1 2011	32	4	4	3.40	3	65	N/A	N/A	DDR3 1066/1333	2	HD 2000	850	1.10	FCGA1155	No	No	Yes	Yes	
2nd Gen	15-2125	Q3 2011	32	2	4	3.30	3	65	N/A	N/A	DDR3 1066/1333	2	HD 3000	850	1.10	FCGA1155	No	No	Yes	Yes	
2nd Gen	15-2127	Q1 2011	32	2	4	2.60	3	35	N/A	N/A	DDR3 1066/1333	2	HD 2000	850	1.10	FCGA1155	No	No	Yes	Yes	
Legacy Core	17-5780	Q2 2011	32	4	8	3.40	12	133	3.60	3.60	DDR3 1066	2	N/A	N/A	N/A	FCGA1155	2	Yes	No	Yes	Yes
2nd Gen	15-2405S	Q2 2011	32	4	4	2.50	6	65	3.30	3.30	DDR3 1066/1333	2	HD 3000	850	1.10	FCGA1155	2	Yes	No	Yes	Yes
2nd Gen	15-2310	Q2 2011	32	4	4	2.90	6	65	3.20	3.20	DDR3 1066/1333	2	HD 2000	850	1.10	FCGA1155	2	Yes	No	Yes	Yes
2nd Gen	15-2310P	Q2 2011	32	4	4	3.10	6	65	N/A	N/A	DDR3 1066/1333	2	HD 2000	850	1.10	FCGA1155	2	Yes	No	Yes	Yes
2nd Gen	15-2312	Q1 2011	32	4	4	2.70	3	65	N/A	N/A	DDR3 1066/1333	2	HD 2000	850	1.10	FCGA1155	2	Yes	No	Yes	Yes
2nd Gen	15-2390T	Q1 2011	32	2	4	2.70	3	35	3.50	3.50	DDR3 1066/1333	2	HD 2000	850	1.10	FCGA1155	2	Yes	Yes	Yes	Yes
2nd Gen	15-2320	Q1 2011	32	2	4	3.30	3	65	N/A	N/A	DDR3 1066/1333	2	HD 2000	850	1.10	FCGA1155	2	Yes	No	Yes	Yes
2nd Gen	15-2390T	Q1 2011	32	2	4	3.30	3	65	N/A	N/A	DDR3 1066/1333	2	HD 2000	850	1.10	FCGA1155	2	Yes	No	Yes	Yes
2nd Gen	15-2390	Q1 2011	32	2	4	3.10	3	65	N/A	N/A	DDR3 1066/1333	2	HD 2000	850	1.10	FCGA1155	2	Yes	No	Yes	Yes
Legacy Core	17-5900	Q1 2011	32	2	4	3.10	3	65	N/A	N/A	DDR3 1066/1333	2	HD 2000	850	1.10	FCGA1155	No	No	Yes	Yes	
Legacy Core	17-5900T	Q1 2011	32	2	4	3.10	3	65	N/A	N/A	DDR3 1066/1333	2	HD 2000	850	1.10	FCGA1155	1.0	No	Yes	Yes	
2nd Gen	17-6000S	Q1 2011	32	4	8	2.80	8	65	3.80	3.80	DDR3 1066/1333	2	HD 2000	850	1.35	IGA1155	2	Yes	Yes	Yes	Yes
2nd Gen	17-6000T	Q1 2011	32	4	8	3.40	8	65	3.80	3.80	DDR3 1066/1										