AMD FPGA Compare

Listed SoMs/Boards are variants currently offered. Other possible assembly varaints can be set up on request. Availability of I/Os ant GTs depends on package and module pinout.

FPGA /SoC	LUT k	FF k	GT PL[1]	GT PS[1]	Total PL I/O[1]	HR Banks [1]	HP Banks [1]	HD Banks [1]	XP Banks [1]	BRAM kb [2]	Ultra RAM kb [3]	DSP48	SoM/Board	
7007S	14	28	0	0	100	2	0	0	0	1800	-	66	TE0722, TE0723, TE0726	
7010	17	35	0	0	100	2	0	0	0	2100	-	80	TE0722, TE0723, TE0724, TE0726, TE0727	
7012S	34	68	4	0	150	3	0	0	0	2500	-	120	TE0715	
7014S	40	81	0	0	200	4	0	0	0	3800	-	170	TE0720	
7015	46	92	4	0	150	3	0	0	0	3300	-	160	TE0715	
7020	53	106	0	0	200	4	0	0	0	4900	-	220	TE0716, TE0720, TE0724, TE0728, TE0729	
7030	78	157	4	0	250	2	3	0	0	9300	-	400	TE0715, TE0745	
7035	171	343	16	0	362	5	3	0	0	17600	-	900	TE0745, TE0782	
7045	218	437	16	0	362	5	3	0	0	19200	-	900	TE0745, TE0782, TE0783	
7100	277	554	16	0	400	5	3	0	0	26500	-	2020	TE0782, TE0783	
ZU1	37	75	0	4	180	0	3	1	0	3800	-	216		
ZU2	47	94	0	4	252	0	3	4	0	5300	-	240	TE0802, TE08x3, TE0820, TE0821, AM0010	
ZU3	71	141	0	4	252	0	3	4	0	7600	-	360	TE08x3, TE0820, TE0821, TE0823 AM0010	
ZU4	88	176	16	4	252	0	3	4	0	4500	13500	728	TE08x3, TE08x7, TE0820, TE0821, AM0010	
ZU5	117	234	16	4	252	0	3	4	0	5100	18000	1248	TE08x3, TE0820, AM0010	
ZU6	215	429	24	4	328	0	4	5	0	25100	-	1973	TE08x8, TE0812	
ZU7	230	461	24	4	464	0	8	2	0	11000	27000	1728	TE08x7	
ZU9	274	548	24	4	328	0	4	5	0	32100	-	2520	TE08x8, TEB0911	
ZU11	298	597	32	4	512	0	8	4	0	21100	22500	2928	TE0865	
ZU15	341	682	24	4	328	0	4	5	0	26200	31500	3528	TE08x8, TEC0850	
ZU17	423	846	44	4	668	0	11	4	0	28000	28700	1590	TE0865	
ZU19	522	1045	44	4	668	0	11	4	0	34600	36000	1968	TE0865	
VE2002	20	40	0	-	216	0	0	0	3	800	6800	90		
VE2102	36	73	0	-	216	0	0	0	3	1700	13200	176		
VE2202	105	210	8	-	238	0	0	1	3	3800	30400	324		
VE2302	150	300	8	-	238	0	0	1	3	5400	43600	464	TE0950	
VM1102	150	300	8	-	238	0	0	1	3	5400	43600	464		
XC6SLX45	27	54	-	-	358	4				2088	-	58	TE0600, TE0630	
XC6SLX75	46	93	-	-	408	6				3096	-	132	TE0630	
XC6SLX100	63	126	-	-	480	6				4824	-	180	TE0600,	
XC6SLX150	92	184	-	-	576	6				4824	-	180	TE0600, TE0630	
S6	4	7	-	-	100	2	0	0	0	180	-	10		
S15	8	16	-	-	100	2	0	0	0	360	-	20		
S25	14	29	-	-	150	3	0	0	0	1620	-	80	TE0717, TE0890	
S50	32	65	-	-	250	5	0	0	0	2700	-	120		
S75	48	96	-	-	400	8	0	0	0	3240	-	140		
S100	64	128	-	-	400	8	0	0	0	4320	-	160		
A12T	8	16	2	-	150	3	0	0	0	720	-	40		
A15T	10	20	4	-	250	5	0	0	0	900	-	45	TE0725	A50T DIE
A25T	14	29	4	-	150	3	0	0	0	1620	-	80		
A35T	21	41	4	-	250	5	0	0	0	1800	-	90	TE0710, TE0711, TE0712, TE0714, TE0725, TEA0200	A50T DIE
A50T	32	65	4	-	250	5	0	0	0	2700	-	120	TE0714	

A75T	47	94	8	-	300	6	0	0	0	3780	-	144		A100T DIE
A100T	67	126	8	-	300	6	0	0	0	4860	-	144	TE0710, TE0711, TE0712, TE0713, TE0725, TE0725LP	
A200T	134	269	16	-	500	10	0	0	0	13140	-	240	TE0712, TE0713	
K70T	41	82	8	-	300	4	2	0	0	4860	-	240	TE0741	
K160T	101	202	8	-	400	5	3	0	0	11700	-	600	TE0741, TEF0007	
K325T	203	407	16	-	500	7	3	0	0	16020	-	840	TE0741, TEF1001	
K410T	254	508	16	-	500	7	3	0	0	28620	-	1540	TE0741, TEF1001	
VX330T	204	408	28	-	700	1	13	0	0	27000	-	1120	TEC0330	
KU025	145	290	12	-	312	2	4	0	0	12700	-	1152		
KU035	203	406	16	-	520	2	8	0	0	19000	-	1700	TE0841	
KU040	240	484	20	-	520	2	8	0	0	21100	-	1920	TE0841	
KU060	331	663	32	-	624	2	10	0	0	38000	-	2760		
KU085	497	995	56	-	676	4	18	0	0	56900	-	4100		
KU095	537	1075	64	-	702	1	15	0	0	59100	-	768		VU DIE
KU115	663	1326	64	-	832	4	20	0	0	75900	-	5520		
AU7P	37	74	4	-	248	0	2	6	0	3800	-	216		
AU10P	44	88	12	-	228	0	3	3	0	3500	-	400	TEC0217	
AU15P	77	155	12	-	228	0	3	3	0	5100	-	576		
AU20P	709	218	12	-	228	0	3	3	0	7000	-	900		
AU25P	141	282	12	-	304	0	4	4	0	10500	-	1200		
KU3P	163	325	16	-	304	0	4	4	0	12700	13500	1368	TEC0217	
KU5P	217	434	16	-	304	0	4	4	0	16900	18000	1824	TEC0217	
KU9P	274	548	28	-	304	0	4	5	0	32100	0	2520		
KU11P	299	597	52	-	512	0	8	4	0	21100	22500	2928		
KU13P	341	683	28	-	304	0	5	4	0	26200	31500	3528		
KU15P	523	1045	76	-	668	0	11	4	0	34600	36000	1968		

1) Depending on package, numbers show are maximum

2) BRAM block size: 18kb for Spartan 6, 36kb for all other

3) Ultra RAM block size 288kb