

## XC2V4000-FF1152 FPGA

## PRODUCTION BOM

KOKERBOOM PROJECT

Schematic: H294-APPS-KKB-1103, Revision: C

Avnet, Inc.

Bill Of Materials

August 27, 2002

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BOM Revision

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Item	Qty.	Reference Designator	Description	Mfg	Part Number	Val/Tol	Pkg	Comments	TSC Stock	Avnet Stock	Verified Part No.
1	1	BT1	BATTERY HOLDER (3000K)	Keystone		3000	SMT				
2	0	C1, C954	47pF	AVX	06033A470KAT2A	47pF	0603 SMT	Not installed			X
3	5	C2,C5,C8,C11,C956	TAND_ 100uF, Low ESR (.075ohm)	AVX	TAJD107K010R	100uF	Case D SMT				X
4	1	C3,C6,C9,C12,C953, C955	68pF	AVX	06033A680KAT2A	68pF	0603 SMT	Not install C3,C6,C12,C953,C955			X
		C4,C7,C10,C13,C14,C15,C16,C3 6,C37,C38,C39,C40,C41,C42,C4 3,C44,C45,C46,C47,C48,C49,C1 11,C112,C113,C114,C125,C230, C231,C232,C233,C236,C237,C2									
5	37	38,C239,C240,C241,C957	TANB 47uF, ESR (1.4ohm)	AVX	TAJB476K010R	47uF	Case B SMT				X
6	5	C17,C18,C121,C234,C235	TAND 220uF	AVX	TAJD227M006R	227uF	Case D SMT				X
		C19,C20,C21,C22,C23,C24,C25, C27,C28,C29,C30,C31,C32,C33, C34,C35,C50,C51,C52,C53,C54, C55,C56,C57,C58,C59,C60,C62, C70,C82,C122,C123,C124,C134, C135,C136,C137,C138,C139,C1 40,C141,C142,C143,C144,C145, C146,C148,C149,C150,C151,C1 52,C153,C154,C155,C156,C157, C158,C159,C160,C161,C162,C1 63,C164,C165,C166,C167,C168, C169,C170,C171,C173,C174,C1 75,C176,C177,C178,C179,C180, C181,C182,C183,C184,C185,C1 86,C187,C188,C189,C190,C191, C192,C193,C194,C195,C196,C1 98,C199,C200,C201,C202,C203, C204,C205,C206,C207,C208,C2 09,C210,C211,C212,C216,C217, C218,C219,C223,C224,C225,C2 26,C227,C228,C229,C242,C243, C244,C245,C246,C247,C248,C2 49,C250,C251,C252,C253,C254, C255,C256,C257,C258,C259,C2 60,C261,C960,C961,C962,C963,									
7	148	C964,C965,C958,C959	0.1uF, 10%, 16V, X7R, 0603	AVX	0603YC104KAT2A	0.1uF	0603 SMT				X
8	1	C26	.01 uF	AVX	06035C103KAT4A	.01uF	0603 SMT				X
9	3	C147,C172,C197	TANB_ 10uF	AVX	TAJB106K016R	10uF	Case B SMT				X
10	3	C950, C951, C952	TANE_ 330uF	AVX	TPSV337M010R0100	330uF	Case V SMT				
11	10	D3,D4,D5,D6,D7,D8,D9,D10,D11 _D900	Green LEDs	QUA	QTLP650C-4		1206 SMT				X
12	4	D1,D2,D901,D902	Red LEDs	QUA	QTLP650C-2		1206 SMT				
13	4	HG1,HG2,HG3,HG4	Header 1x1x0.100"	AMP	103185-1		Thru Hole				X
14	10	JP101, JP4,JP5,JP6,JP7,JP8, JP102, JP104, JP904	Header 1x2x0.100" (Jumper)	AMP	103185-2		Thru Hole				X
15	2	JP1, JP103	Header 3x2x0.100"	AMP	103186-3		Thru Hole				X
16	2	JP2,JP12,JP13	Header 4x2x0.100"	AMP	103186-4		Thru Hole				X

17	2	JP15,JP14	Header 3x1x0.100"	AMP	103185-3		Thru Hole				X
18	2	JP16, J102	Header 25x2x0.100"	AMP	2-103186-5		Thru Hole				X
19	0	JP17	Header 10x2x0.100"	AMP	1-103186-0		Thru Hole	Not install.			X
20	0	JP18	Header 8x2x0.100"	AMP	103186-8		Thru Hole	Not install			X
21	1	JP19	Header 11x2x0.100"	AMP	1-103186-1		Thru Hole				X
22	1	JP100	Header 1x6x0.100"	AMP	103185-6		Thru Hole				X
23	0	J103	Header 27x1x0.100"	AMP	2-103186-7		Thru Hole	Not install			
24	1	JT1	0 ohm, 1206 Jumper	AVX	CJ32-000-S	0	1206 SMT	Install at JT1 pins 1-2			X
25	1	J1	Barrel Socket	SWC	RAPC-722		Thru Hole				X
26	1	J2	XLX_DOWNLOAD (Header 11x2x0.100")	AMP	1-103186-1		Thru Hole				X
27	1	J3	PCI_64_UNIVERSAL	-	N/A		-	PCB Pattern			N/A
28	0	J101	SMA Connector	AMP	221789-3		Thru Hole	Not install			
29	1	P1	CONNECTOR DB9	AMP	747844-6		Thru Hole				X
30	2	P4,P2	Virtex-II IO Connector 2:1: JTAG	AMP	179031-6		SMT				X
31	4	P3,P5,P6,P7	Virtex-II IO Connector 2:1: IO	AMP	179031-6		SMT				X
32	24	R1, R7, R31, R36, R49, R51, R65, R68, R900, R901, R902, R903, R904, R905, R906, R907, R908, R909, R910, R911, R912, R913, R914, R915, R916, R917, R918, R919	49.9ohm, 0603, 1%	Dale	CRCW0603-49R9FT	49.9	0603 SMT	Not install: R1,R7,R31,R36			X
33	17	R2, R3, R5, R8, R34, R35, R47, R48, R99, R101, R105, R106, R109, R113, R171, R174, R177, R178, R185, R956, R958, R959, R960, R961, R967, R968, R971, R972, R974, R975, R976	0	AVX	CJ10-000-S	0	0603 SMT	Not install: R47, R105, R106, R113, R171, R174, R185, R958, R959, R960, R961, R968, R971, R975, R976			X
34	2	R11, R15	0	DAL	CRCW1210000RT1	0	1210 SMT				
35	11	R4, R6, R9, R10, R12, R13, R14, R16, R17, R19, R20, R22, R24, R26, R28, R30, R33, R37, R39, R41, R43, R45	100ohm, 0603, 1%	Dale	CRCW0603-1000FT	100	0603 SMT	Not install: R4,R10,R12,R14,R17,R20, R37,R39,R41,R43,R45			X
36	20	R53,R54,R55,R56,R80,R81,R82, R83,R84,R85,R86,R87,R89,R90, R91,R92,R93,R94,R95,R96	49.9, Resistor Pack	AVX	CRB3A4E49R9FT (Digi Key: 742C083510JCT-ND)	49.9	SMT				X
37	14	R75,R88,R100,R102,R107,R108, R116,R117,R118,R119,R120,R1 21,R184,R966	10K	AVX	CRCW0603-103JT	10k	0603 SMT				X
38	12	R76,R97,R104,R112,R950,R951, R952,R965,R973,R977,R978,R9	1K	AVX	CRCW0603-102JT	1k	0603 SMT				X
39	2	R103,R964	280 ohm, 1%	Dale	CRCW0603-2800FT	280	0603 SMT				X
40	26	R18, R21, R129, R132, R133, R134, R159, R160, R162, R163, R165, R166, R168, R169, R176, R179, R180, R181, R182, R183, R186, R190, R920, R957, R962, R963, R969, R970, R980	4.7kohm, 0603	AVX	CRCW0603-472JT	4.7k	0603 SMT	Not install: R920, R957, R969			X
41	1	R128	301	Dale	CRCW0603-3010FT	301	0603 SMT				X
42	10	R135,R155,R156,R157,R158,R1 61,R164,R167,R170,R955	1.5K	AVX	CRCW0603-152JT	1.5k	0603 SMT				X
43	7	R172,R173,R175,R187,R188,R1 91,R953,R954	24 ohm, 0603	Dale	CRCW0603-240JT	24	0603 SMT	Not install: R953			X
44	1	S1	Dip Switch	AMP	3-435640-9		8x Switch				X
45	7	T1,T2,T3,T4,T5,T6,T900	TEST PAD	AMP	N/A			PCB Pattern			N/A
46	1	U1	FPGA, BGA, 1152 IO	XLX	XC2V4000-4FF1152C		FF1152 BGA				X
47	1	U4	3.3V, LDO Regulator	NAT SEMI	LP3966ES-3.3	3.3V	TO263-5				
48	1	U5	System ACE MPM	XLX	XCCACEM64		BG338I				
49	0	U6	DDR SODIMM, 200 Pin Single Bank Module	Micron	MT8VDDT1664HDG-265B2		200 PIN				X
50	1	U6-Socket	Socket for SODIMM	AMP	1473006-1		200 PIN				X
51	1	U7	FLASH, 56 pin TSOP, 64Mb	Intel	E28F640J3A120		TSOP-56				X
52	1	U9	1.8V, LDO Regulator	NAT SEMI	LP3966ES-1.8	1.8V	TO263-5				X
53	1	U10	Adjustable, LDO Regulator	NAT SEMI	LP3966ES-ADJ	ADJ	TO263-5				X

54	2	U11,U906	2.5V, LDO Regulator	NAT SEMI	LP3966ES-2.5	2.5V	TO263-5				X
55	1	U15	RS232	HAR	ICL3222CA		SSOP-20				X
56	1	U22	125MHz Oscillator	FOX	JITO2-DC3AF 125.000MHZ	125 MHz	SMT				X
57	1	U23	40MHz Oscillator, 3.3Vdc, Half Size	Saronix	NTH089C3-40.0000	40 MHz	Thru Hole				X
58	1	U23-Socket	Dip Socket for Oscillator	RNI	ICE-083-S-TT		Thru Hole				X
59	1	U24	66.6670MHz Osc, 3.3V, HCMOS, 5X7.5, 100ppm, -40 +85, SMD	Saronix	CB3LV-3C-66.666-T (Digi Key: CTX287LVCT-ND)	66 MHz	SMT				X
60	1	U25	2x7 (14 position) 2mm Connector	Molex	87332-1420 (Digi Key: WM18078-ND)		SMT				X
61	1	U900	6A, Dual output +3.3V/+1.5V Integrated Switching Regulator	TI	PT6943A		Thru Hole				
62	4	U902, U903, U904, U905	24-Bit FET Bus Switch w/ level shifting	TI	SN74CBTD16211DGGR		SSOP-56				
63	1	U907	CPU Supervisor	Xicor	X4003S8-2.7A		8L SOIC				
64	1	N/A	PCB (Provided by Avnet)		H294-APPS-KKB-2103						N/A
65	1	SW1	Push Button	BNS	7914J-1-000E		SPST				