

Actel Corporation
Platform8051 Board
Bill of Materials

Item	Quantity	Reference	Part	PCB Footprint	Manufacturer	Part Number	Description	Not Fitted	Final Quantity
1	149	C1,C2,C3,C4,C5,C6,C7,C8, C9,C10,C11,C12,C13,C14, C15,C16,C17,C18,C19,C20, C21,C22,C23,C24,C25,C26, C27,C28,C29,C30,C31,C32, C33,C34,C35,C36,C37,C38, C39,C40,C41,C42,C43,C44, C45,C46,C47,C48,C51,C52, C53,C54,C55,C56,C57,C58, C59,C60,C61,C62,C63,C64, C65,C66,C67,C68,C69,C70, C71,C72,C73,C74,C75,C76, C77,C78,C79,C80,C81,C82, C83,C84,C85,C86,C87,C88, C89,C90,C91,C92,C93,C94, C95,C96,C97,C98,C99,C100, C101,C102,C103,C104,C105, C106,C107,C108,C109,C110, C111,C112,C113,C114,C115, C116,C117,C118,C123,C124, C125,C126,C127,C128,C131, C132,C133,C134,C135,C136, C140,C141,C142,C143,C144, C145,C146,C149,C153,C154, C155,C156,C157,C158,C159, C160,C164,C165,C166,C167, C168	0.1UF	805	AVX Corp	08053G104ZAT2A	0805,Y5V,.1UF,+80/-20%,25V Capacitor		149
2	3	C49,C50,C161	4.7UF	CASE_A	AVX Corp	TAJA475K016R	MOLDED,SMT TA,4.7UF,16V,10%,A CASE		3
3	4	C119,C120,C121,C122	1UF	CASE_A	AVX Corp	TAJA105M016R	TA,1UF,16V,20%		4
4	3	C129,C137,C147	100UF	CASE_D	AVX Corp	TAJD107M016R	TA,100UF,16V,20%		3
5	3	C130,C138,C148	22UF	CASE_D	AVX Corp	TAJD226M016R	TA,22UF,16V,20%,		3
6	1	C139	68UF	CASE_D	AVX Corp	TAJD686M016R	TA,68UF,16V,20%		1
7	1	C150	470PF	805	AVX Corp	08053C471KAT2A	0805,X7R,470PF,10%,25V		1
8	2	C152,C151	47PF	805	AVX Corp	08055A470JAT2A	0805,NP0,47PF,5%,50V		2
9	1	C162	0.1nF	805	AVX Corp	08055A101KAT2A	0805,NP0,100PF,10%,50V		1
10	1	C163	0.01UF	805	AVX Corp	08053G103ZAT2A	0805,Y5V,.01UF,+80/-20%,25V		1
11	8	D1,D2,D3,D4,D5,D6,D7,D8	LED-G	LEDSMD	Dialight	597-3301-502	LED SMD, Green	D5,D6,D7,D8 Not Fitted	4
12	3	D9,D11,D13	LED-R	LEDSMD	Dialight	597-3021-502	LED SMD, Red		3
13	3	D10,D12,D14	LED-G	LEDSMD	Dialight	597-3301-502	LED SMD, Green		3
14	2	D16,D15	ZENER 4.7V	DO_35	Vishay Semic	1N4688-TR	4.7V Zener Diode		2
15	1	J1	HEADER2	SIP2	Arconix BERG	93115-000	Header2		1
16	1	J2	HEADER8	SIP8	Arconix BERG	93115-000	Alternate Header for JTAG port	Not Fitted	0
17	2	J17,J3	FlashPRO Connector	FlashPRO_CON	Samtech	FTSH-113-01-L-D-K	FlashPRO Connector	J17 Not Fitted	1
18	1	J4	HEADER6	SIP6	Arconix BERG	93115-000	Header6 to access Special PINs of FPGA		1
19	2	J7,J5	HEADER6A	HEADER6A	Arconix BERG	93115-000	Header	Not Fitted	0
20	2	J6,J8	Triax	Triax	Trompeter	CBBJR74	Triax Connector(Not Installed on board)	Not Fitted	0
21	2	J9,J13	RJ45_WM	RJ45WM	Pulse Tech	J0011D21B	1X1RJ45 TAB DOWN W/LE	J13 Not Fitted	1
22	6	J10,J11,J12,J14,J15,J16	HEADER3	SIP3	Arconix BERG	93115-000	Header 3	J14,J15,J16 Not Fitted	3
23	2	J20,J18	RJ45_WM	RJ45WM	Pulse Tech	J0011D21B	1X1RJ45 TAB DOWN W/LE (Not Installed on board)	Not Fitted	0
24	2	J19,J21	CON14	SIP14	Arconix BERG	93115-000	Header	Not Fitted	0
25	1	J22	HEADER4	SIP4	Arconix BERG	93115-000	Header		1
26	1	J23	HEADER90	HEADER90	Arconix BERG	93115-000	Daughter Board Connector		1

27	1	J24	CONNECTOR DB9	DB9 MALE	AMP	788753-1	DB9 Serial Port Connector		1
28	1	J25	POWER IN	PWRINJACK	CUI Inc	PJ-002A	Power IN Jack		1
29	1	J26	CON USB	CONNECTOR USB	Molex	67068-0010	USB B TYPE CONN		1
30	6	L1,L2,L3,L4,L5,L6	BLM31AF700SN1K	1206	Murata	BLM31AF700SN1K	70ohm ±25%		6
31	1	RA1	4.7K	SIP10	CTS CORP	770 10 1 472	Resistor Network 4.7K		1
32	2	R2,R1		0	805	AVX Corp	CJ21-000-T	Chip Jumper 0805,1/10W,0,0%,10K	2
33	4	R3,R4,R5,R6		54.9	2512	Vishay Intertechnology	CRCW251254R9FR67	2512,1W,54.9,1%	4
34	1	R7		2.7	805	AVX Corp	CR21-2R7J-T	0805,1/10W,2.7,5%	1
35	27	R8,R9,R10,R11,R20,R26, R27,R28,R32,R41,R47,R48, R49,R71,R72,R73,R74,R77, R78,R79,R80,R81,R82,R85, R86,R87,R88	10K		805	AVX Corp	CR21-103J-T	0805,1/10W,10K,5%,5K	27
36	4	R12,R13,R33,R34	1.5K		805	AVX Corp	CR21-152J-T	0805,1/10W,1.5K,5%	4
37	4	R14,R15,R35,R36		49.9	805	AVX Corp	CR21-49R9F-T	0805,1/10W,49.9,1%	4
38	22	R16,R19,R21,R22,R23,R24, R37,R40,R42,R43,R44,R45, R59,R60,R61,R62,R63,R64, R66,R76,R83,R84	1K		805	AVX Corp	CR21-102J-T	0805,1/10W,1K,5%	22
39	4	R17,R18,R38,R39		54.9	805	AVX Corp	CR21-54R9F-T	0805,1/10W,54.9,1%	4
40	2	R46,R25	9.31K		805	AVX Corp	CR21-9311F-T	0805,1/10W,9.31K,1%	2
41	6	R29,R30,R31,R50,R51,R52	4.99K		805	AVX Corp	CR21-4991F-T	0805,1/10W,4.99K,5%,5K	6
42	1	R53	R-VAR	VAR_RES	BOURNS	3299-W-1-203	Variable Resistor		1
43	5	R54,R55,R56,R57,R58	4.7K		805	AVX Corp	CR21-472J-T	0805, 1/10W, 4.7K, 5% Resistor	5
44	1	R65	1/1W/1%	R500	Micro-Ohm Corp	R-1A/1W/1R/1%	1 Ohm 1 Watt Resistor		1
45	2	R68,R67		27	805	AVX Corp	CR21-270J-T	0805,1/10W,27,5%	2
46	2	R69,R70	15K		805	AVX Corp	CR21-153J-T	0805,1/10W,15K,5%	2
47	1	R75	3K		805	AVX Corp	CR21-302J-T	0805,1/10W,3K,5%,5K	1
48	1	SW1	DPDT_Switch	Power_Switch	ITT Cannon	L202011MS02Q	POWER ON OFF Switch		1
49	6	SW2,SW3,SW4,SW5,SW6,SW7	SWPUSHBUTTON	RESETSW	ITT Industries	D6C90	Push Button Switch		6
50	1	S1	SW DIP-8	DIP16	Greyhill	76SB08	DIP Switch		1
51	1	U1	APA600 FG676	FG676	Actel	A3PE800-FG676	ProASIC FPGA		1
52	5	U2,U16,U17,U18,U22	74LVT245	SOIC20	Fairchild Semiconductor	74LVTH245WM	LV OCTAL Trasceiver		5
53	1	U3	BU63147	BU63147 DIP36	DDC	BU-63147 D3-320	1553B Tranceiver(Not Installed on board)	Not Fitted	0
54	2	U5,U4	BTTCLP6000	BTTTC8	BTTTC	HLP-6000	1553B Magnetics(Not Installed on board)	Not Fitted	0
55	1	U6	HSDL3000	HSDL3000	Agilent	HSDL-3000#007	1M, 3-5V, SIR, FRONT		1
56	1	U7	HSDL7000	HSDL7000	Agilent	HSDL-7000#100	ENDEC, 3/16,NO CLOCK		1
57	2	U19,U8	74ABT245	SOIC20	Fairchild Semiconductor	74ABT245CSC	OCTAL TRANSCEIVER		2
58	1	U9	GS84036A	TQFP100	GSI Technology	GS84036AT-150	128K X 36 (4 MEG) SRAM		1
59	1	U10	MT28F320J3RG-11	TSOP56	Micron	MT28F320J3RG-11	32MB Q-Flash Memory		1
60	1	U11	M95040-WDW6	SO8_150	ST	M95040-WMN6	EE Serial 4K SPI		1
61	1	U12	M24256-AW	SO8_150	ST	M24256-AWMN6T	EE SERIAL 256K I2P		1
62	2	U13,U14	DP83846A	LQFP80	National Semiconductor	DP83846AVHG	3.3V SINGLE 10/100 DSPHYTER	U14 Not Fitted	1
63	1	U15	VK2116	LCD_DISPLAY	VIKAY	VK2116L	LCD Display		1
64	1	U20	MAX232	SO16WIDE	Maxim IC	MAX232CWE	16 PINS W.SO PKG		1
65	1	U21	XTALOSC-25MHZ	DIP14	Fox Electronics	F1145E-25MHZ	Crystal Oscillator 25MHz		1
66	1	U23	XTALOSC-16MHZ	DIP14	Fox Electronics	F1145E-16MHZ	Crystal Oscillator 16MHz		1
67	1	U24	UA7805KTE	KTE	Texas Instruments	UA7805CKTER	POSITIVE-VOLTAGE REGULATOR/LINEAR		1
68	1	U25	XTALOSC	DIP14	Fox Electronics	Not Installed	Crystal reserved for USER(Not installed on board)	Not Fitted	0
69	1	U26	LT1764-3.3	DD_PACK	Linear Tech	LT1764EQ-3.3	3.3 Volt Regulator		1
70	1	U27	LT1764-2.5	DD_PACK	Linear Tech	LT1764EQ-2.5	2.5 Volt Power Regulator		1
71	1	U28	PDUSBP11A_3	SSOP14	Philips	PDIUSBP11ADB	USB Transceiver		1
72	6	U29,U30,U32,U33,U35,U36	MAX6315	SOT143	Maxim	MAX6315US29D3-T	OPEN-DRAIN SOT UP RESET CIRCUIT		6
73	1	U31	MAX1204	SSOP20	Maxim	MAX1204ACAP	LOW-POWER, 8-CHANNEL, SERIAL 10-BIT ADC		1
74	1	U34	MAX6605	SO70	Maxim	MAX6605MXK-T	Temperature Sensor		1