

Item	Quantity	Reference	Part	PCB Footprint
1	92	TP1,GND1,D_ADCB1,D_ADCA1,	TEST POINT	TP_64
		DADCB1_GND,DADCA1_GND,		
		DAC_GND1,DACB_1,DACA_1,		
		ADCD1_GND,ADCD1,		
		ADCC1_GND,ADCC1,		
		ADCB1_GND,ADCB1,		
		ADCA1_GND,ADCA1,TP2,		
		D_ADCB2,D_ADCA2,		
		DADCB2_GND,DADCA2_GND,		
		DACB_2,DACA_2,ADCD2_GND,		
		ADCD2,ADCC2_GND,ADCC2,		
		ADCB2_GND,ADCB2,		
		ADCA2_GND,ADCA2,TP3,		
		D_ADCB3,D_ADCA3,		
		DADCB3_GND,DADCA3_GND,		
		ADCD3_GND,ADCD3,		
		ADCC3_GND,ADCC3,		
		ADCB3_GND,ADCB3,		
		ADCA3_GND,ADCA3,TP4,		
		D_ADCB4,D_ADCA4,		
		DADCB4_GND,DADCA4_GND,		
		TP5,D_ADCB5,D_ADCA5,		
		DADCB5_GND,DADCA5_GND,		
		TP6,D_ADCB6,D_ADCA6,		
		DADCB6_GND,DADCA6_GND,		
		D_ADCB7,D_ADCA7,		
		DADCB7_GND,DADCA7_GND,		
		1B1,1A1,2B1,2A1,3V1,3B1,		
		3A1,4B1,4A1,5V1,5B1,5A1,		
		6B1,6A1,10V1,GND_SIGNAL,		
		D_ADCB0,D_ADCA0,		
		DADCB0_GND,DADCA0_GND,		
		ADCD0_GND,ADCD0,		
		ADCC0_GND,ADCC0,		
		ADCB0_GND,ADCB0,		
		ADCA0_GND,ADCA0		
2	37	C1,C2,C4,C7,C115,C118,	4.7uF	C1206
		C135,C139,C141,C143,C145,		
		C148,C150,C152,C154,C156,		
		C158,C160,C162,C164,C166,		
		C168,C170,C172,C174,C176,		
		C178,C180,C182,C184,C257,		
		C421,C423,C425,C427,C429,		
		C431		
3	39	C5,C8,C9,C10,C24,C83,C85,	10uF	C1206
		C87,C89,C91,C93,C97,C101,		
		C103,C105,C107,C109,C111,		
		C120,C125,C128,C133,C137,		
		C225,C226,C237,C250,C260,		
		C265,C268,C287,C288,C368,		
		C372,C378,C383,C397,C407,		
		C2000		
4	11	C6,C81,C82,C95,C99,C100,	1uF	C0805
		C303,C352,C353,C391,C394		
5	32	C11,C12,C13,C16,C26,C27,	330pF	C0805
		C28,C31,C33,C34,C35,C38,		
		C41,C42,C43,C46,C49,C50,		

		C51,C54,C57,C58,C59,C62,		
		C65,C66,C68,C71,C73,C74,		
		C75,C78		
6	182	C14,C15,C18,C19,C20,C21,	0.1uF	C0603
		C22,C23,C25,C29,C30,C36,		
		C37,C44,C45,C52,C53,C60,		
		C61,C69,C70,C76,C77,C84,		
		C86,C88,C90,C92,C94,C98,		
		C102,C104,C106,C108,C110,		
		C112,C114,C117,C121,C122,		
		C123,C124,C126,C129,C130,		
		C131,C132,C134,C136,C138,		
		C140,C142,C144,C146,C147,		
		C149,C151,C153,C155,C157,		
		C159,C161,C163,C165,C167,		
		C169,C171,C173,C175,C177,		
		C179,C181,C183,C185,C215,		
		C238,C239,C240,C241,C242,		
		C243,C244,C248,C251,C252,		
		C255,C256,C258,C259,C261,		
		C262,C264,C267,C269,C271,		
		C279,C280,C289,C290,C291,		
		C292,C293,C294,C295,C296,		
		C301,C308,C309,C316,C317,		
		C324,C325,C332,C333,C340,		
		C341,C348,C349,C354,C355,		
		C356,C360,C361,C362,C363,		
		C364,C365,C366,C367,C369,		
		C370,C371,C373,C374,C375,		
		C376,C377,C379,C380,C382,		
		C385,C386,C387,C388,C389,		
		C392,C395,C398,C399,C400,		
		C401,C402,C403,C404,C405,		
		C406,C408,C409,C410,C411,		
		C412,C413,C414,C415,C416,		
		C417,C418,C419,C420,C422,		
		C424,C426,C428,C430,C432,		
		C433,C434,C435,C436,C437,		
		C438,C439		
7	30	C17,C32,C39,C40,C47,C48,	1n	C0603
		C55,C56,C63,C64,C67,C72,		
		C79,C80,C282,C284,C298,		
		C300,C306,C311,C314,C319,		
		C322,C327,C330,C335,C338,		
		C343,C346,C351		
8	1	C96	10nF	C0402
9	4	C113,C116,C119,C127	1.8pF	C0603
10	30	C186,C187,C188,C189,C190,	0.1uF	C0402_S
		C191,C192,C193,C200,C201,		
		C202,C203,C204,C205,C206,		
		C208,C209,C210,C211,C212,		
		C213,C214,C216,C217,C218,		
		C219,C220,C221,C222,C223		
11	2	C195,C194	2.2nF	C0402_S
12	2	C196,C197	10nF	C0402_S
13	2	C199,C198	47nF	C0402_S
14	2	C207,C224	100uF	C1206
15	6	C227,C228,C229,C230,C231,	0.1uF	C0402

		C232		
16	4	C233,C234,C235,C236	10pF	C0603
17	2	C246,C245	30pF	C0603
18	11	C247,C249,C253,C254,C263,	0.01uF	C0603
		C266,C357,C358,C359,C381,		
		C384		
19	2	C272,C270	22uF	C1206
20	2	C273,C274	2.2uF	C0603
21	2	C276,C275	33pF	C0603
22	32	C277,C278,C281,C283,C285,	550pF	C0603
		C286,C297,C299,C304,C305,		
		C307,C310,C312,C313,C315,		
		C318,C320,C321,C323,C326,		
		C328,C329,C331,C334,C336,		
		C337,C339,C342,C344,C345,		
		C347,C350		
23	1	C302	0.47uF	C0805
24	1	C390	22nF	C0603
25	2	C396,C393	0.001uF	C0603
26	16	D-1,D-2,D-3,D-4,D-5,D-6,	BAT54S	SOT-23
		D-7,D-8,D-9,D-10,D-11,		
		D-12,D-13,D-14,D-15,D-16		
27	1	DA1	BAW567	SOT-363
28	3	D1,D2,D3	GREEN	LED_1206
29	1	D4	DIODE SCHOTTKY	SMC
30	4	D5,D6,D7,D8	LED	LED_0805
31	7	D9,D10,D11,D12,D13,D14,	D1N4148	SOD-323
		D17		
32	2	D16,D15	GREEN	LED_CMD28
33	6	FD1,FD2,FD3,FD4,FD5,FD6	T POINT R	FIDUCIAL
34	1	F1	FUSE 4 Amps	F1206
35	8	JP1,JP2,JP6,JP10,JP11,	CON3	BERG_1X3
		JP12,JP13,JP14		
36	7	JP3,JP4,JP5,J7,JP17,JP18,	JUMPER1	BERG_1X2
		JP19		
37	6	JP7,JP8,JP9,JP15,JP16,	JUMPER	BERG_1X2
		JP20		
38	1	J1	CON2	CON_DC_JACK
39	2	J3,J2	CON10A	BERG_2X5
40	1	J4	CONNECTOR DB9	CON_DSUB_9P_RA_SOC
41	6	J5,J12,J13,J23,J25,J26	Wago 6 pin	CON_6P_WAGO_3.5
42	1	J6	Burg Stick Connector	BERG_1X10
43	2	J8,J9	FRC 50 Pin	FRC_50P_100_VT.
44	4	J10,J11,J14,J15	Wago 10 pin	CON_10P_WAGO_3.5
45	4	J16,J17,J18,J19	HEADER 1	TP_BERG
46	5	J20,J21,J28,J29,J31	Wago 8 pin	CON_8P_WAGO_3.5
47	1	J22	HEADER 7x2/SM	BERG_2X7
48	1	J27	FRC CON24	FRC_24P_ST
49	1	J30	FRC CON 24	FRC_24P_ST
50	3	J32,J132,J133	CON2	RELIMATE_1X2
51	1	J134	RS485 8P8C Jack	RJ45_8P
52	1	L1	CHOKE CM14_0	L_ACM4520
53	3	L2,L8,L9	BEAD FERRITE/SM	L0805
54	4	L3,L4,L5,L6	BEAD	L0805
55	1	L7	INDUCTOR	L0805
56	8	MH1,MH2,MH3,MH4,MH5,MH6,	T POINT R	MH_3MM_7MM
		MH7,MH8		
57	1	P1	EP4CE30F484_ALTERA	FBGA_484P_1MM

58	1	P10	USB-TYPEB	USB_BTTYPE_4P
59	18	R1,R2,R194,R195,R206, R207,R221,R222,R233,R234, R245,R246,R257,R258,R269, R270,R281,R282	15K	R0805
60	2	R186,R3	3K	R0805
61	1	R4	20K_POT	RES_POT_3296W
62	16	R6,R7,R21,R22,R33,R34, R45,R46,R57,R58,R69,R70, R81,R82,R93,R94	25K	R0805
63	64	R8,R9,R10,R11,R23,R24, R25,R26,R35,R36,R37,R38, R47,R48,R49,R50,R59,R60, R61,R62,R71,R72,R73,R74, R83,R84,R85,R86,R95,R96, R97,R98,R196,R197,R198, R199,R208,R209,R210,R211, R223,R224,R225,R226,R235, R236,R237,R238,R247,R248, R249,R250,R259,R260,R261, R262,R271,R272,R273,R274, R283,R284,R285,R286	100K	R0805
64	32	R12,R13,R14,R15,R27,R28, R29,R30,R39,R40,R41,R42, R51,R52,R53,R54,R63,R64, R65,R66,R75,R76,R77,R78, R87,R89,R90,R91,R99,R100, R101,R102	50K	R0805
65	40	R16,R17,R20,R31,R32,R43, R44,R55,R56,R67,R68,R79, R80,R88,R92,R103,R104, R115,R120,R129,R177,R204, R205,R216,R217,R220,R231, R232,R243,R244,R255,R256, R267,R268,R279,R280,R291, R292,R311,R357	1k	R0805
66	4	R18,R111,R118,R218	470K	R0805
67	4	R19,R112,R119,R219	10K_POT	RES_POT_3296W
68	2	R310,R105	1M	R0805
69	1	R106	50K	RES_POT_3296W
70	16	R107,R109,R113,R116,R121, R123,R125,R127,R315,R317, R319,R321,R349,R350,R351, R352	20K	R0805
71	73	R108,R114,R122,R126,R130, R131,R132,R133,R134,R135, R136,R137,R138,R139,R140, R141,R142,R143,R144,R145, R146,R147,R148,R149,R150, R151,R152,R153,R154,R155, R156,R157,R158,R159,R160, R161,R162,R171,R172,R173, R174,R175,R179,R183,R184, R313,R316,R318,R320,R322, R323,R324,R325,R326,R327, R328,R329,R330,R360,R361, R362,R363,R364,R365,R366, R367,R368,R369,R370,R371,	10k	R0805

		R372,R373,R374		
72	4	R110,R117,R124,R128	5K	R0805
73	4	R163,R164,R166,R169	DNI	R0805
74	8	R165,R167,R168,R170,R182, R193,R305,R380		0 R0805
75	1	R176		25 R0805
76	4	R178,R185,R333,R334		120 R0805
77	1	R180	5M	R0805
78	2	R314,R181	2k	R0805
79	1	R187	18.2K	R0805
80	1	R188	30.1K	R0805
81	1	R189	22.1K	R0805
82	32	R190,R293,R294,R295,R296, R297,R298,R299,R300,R301, R302,R303,R304,R308,R312, R335,R336,R337,R338,R339, R340,R341,R343,R344,R345, R346,R347,R348,R353,R354, R355,R356	2.2k	R0805
83	4	R191,R192,R331,R332	4.7K	R0805
84	32	R200,R201,R202,R203,R212, R213,R214,R215,R227,R228, R229,R230,R239,R240,R241, R242,R251,R252,R253,R254, R263,R264,R265,R266,R275, R276,R277,R278,R287,R288, R289,R290	30K	R0805
85	2	R306,R307		27 R0805
86	1	R309	47K	R0805
87	6	R342,R359,R398,R399,R400, R401	1.5k	R0805
88	1	R358		100 R0805
89	32	R382,R383,R384,R385,R386, R387,R388,R389,R390,R391, R392,R393,R394,R395,R396, R397,R402,R403,R404,R405, R406,R407,R408,R409,R410, R411,R412,R413,R414,R415, R416,R417		33 R0805
90	1	SW1	SW DIP-4/SM	SO8W
91	1	U-1	DKA30A-15	DKA30
92	1	U-2	SKE15A-05	DC-DC_SKE15
93	6	U-3,U-4,U-5,U-6,U-7,U-8	ULN2804APG	SO18W
94	1	U1	LT1963AES8-2.5	SO8
95	1	U2	LD39300DT33-R	DPAK
96	1	U3	AP7363-12D-13	TO_252
97	20	U4,U9,U10,U11,U12,U13, U14,U15,U22,U24,U27,U28, U54,U58,U61,U62,U63,U64, U65,U66	OPA2227U	SO8
98	6	U5,U6,U7,U55,U56,U57	SP723	SO8
99	1	U8	ADR02BRZ	SO8
100	4	U16,U17,U19,U20	AD7655	LQFP_48P_0.5_ST48
101	1	U18	AD780	SO8
102	2	U21,U26	AD5447	TSSOP_24P_0.65
103	2	U23,U25	ADR01BRZ	SO8
104	18	U29,U31,U32,U34,U35,U36, U37,U38,U39,U40,U67,U68,	CD4504B	TSSOP_16P_0.65

		U81,U82,U83,U85,U87,U88		
105	1	U30	IS62WV1288DBLL-45HLI	TSOP_32P_13.4MM_0.5
106	1	U33	MAX6816EUS	SOT-143
107	2	U53,U41	CDCV304	TSSOP_8P_0.65
108	1	U42	KC3225A50.0000C3GE00	CLK_OSC_KC3225A-C3
109	1	U43	EPCS16	SO8
110	2	U75,U44	MAX3221EIPWR	TSSOP_16P_0.65
111	1	U45	MCP2515-I/SO-ND	SO18W
112	2	U77,U46	SN65HVD235D	SO8
113	1	U47	FT245RL	SSOP_28P_0.65
114	2	U49,U48	25AA512	SO8
115	2	U76,U50	ADM2587E	SO20W
116	1	U51	TPS767D301	TSSOP_28P_0.65_TP
117	1	U52	TMS320F28335	PQFP_176_0.5
118	1	U59	ADR06BRZ	SO8
119	1	U60	REF3120	SOT-23
120	1	U69	FT2232D	LQFP_48P_0.5
121	1	U70	93LC46B	SOT_23_6P
122	1	U71	SN74LVC2G7	SSOP_8P_0.65
123	2	U73,U72	OPA4170	SO14
124	1	U74	AD5625R	TSSOP_14P_0.65
125	1	U78	AM26LV32I	SO16
126	1	U79	MAX6816	SOT-143
127	1	U80	74LVC1G11W, SOT-363	SOT-363
128	3	U84,U86,U89	DS34C87TMX	SO16
129	1	X1	ECS-200-S-23A-EN-TR	CRY_ECS-200
130	1	X2	USB	CON_MINI_USB_5P_SMT
131	1	Y1	CRYSTAL	CRY_NX5032GA
132	1	Y2	CRY-6MHz	CRY_3P_1.5_CSTCR_G15C