

Item Quantity Reference Part Supplier Digikey unless specified..

---- ADA SIP board components ----

All from MOUSER for ADA SIP

1	4	C1,C2,C3,C4	10nF 50V COG 0805	CGA4C2COG1H103J060AA
2	5	C5,C6,C7,C9,C10	220nF 25V 0603 X7R	Vishay VJ0603Y224KXXCW1BC
3	3	C8,C11,C12	4u7 16V X7R	GRM21BR71C475KE51L
4	1	H1	15 SIP MODULE HEADER	Mill-Max 399-10-115-10-009000
5	2	H2,H3	IN and OUT ADA	pcb connections (no parts)
6	4	L1,L2,L3,L4	FERRITE 0805 1k TDK	MMZ2012R102AT000
7	1	R1	54k9 0.1% 0805	ERA-6AEB5492V
8	1	R2	44k2 0.1% 0805	ERA-6AEB4422V
9	1	R3	1k 5% 0805	RR1220P-102-D
10	1	R4	75k 5% 0805	ERA-6AED753V
11	2	R5,R11	10k 5% 0805	ERA-6AED103V
12	2	R6,R8	10k 0.1% 0805	ERA-6VEB1002V
13	1	R7	3k48 0.1% 0805	ERA-6AEB3481V
14	1	R9	15k 0.1% 0805	ERA-6AEB153V
15	1	R10	300R 5% 0.5W 0805	ERJ-P06J301V
16	1	R12	620R 5% 0805	ERA-6AED621V
17	1	R13	22k 5% 0805	ERA-6AED223V
18	1	R14	10k 5% 0805	ERA-6AED103V (selected GAIN resistor)
19	1	U1	ADC 16-bit INL-1LSB MSOP	MAX11100EUB+
20	1	U2	Vref 5V SOT23	MAX6035BAUR50+T
21	2	U3,U5	OPAMP 36V RRIO SOT23-5	OPA990IDBVR
22	1	U4	DAC 16-bit INL-1LSB MSOP	LTC2641ACMS8-16#PBF
23	1	-	4 layers PCB	

---- Main board components ----

24	4	C18,C20,C22,C24	10uf/25V	Cornell Dubilier SK100M025ST
25	9	C19,C21,C23,C25,C26, C27,C28,C31,C33	0.1uf/50V	KEMET C315C104M5U5TA
26	2	C29,C30	0.01uf	KEMET C322C103K5R5TA7301
27	1	C32	0.047uf	KEMET C322C473K5R5TA7301
28	1	D1	1N4148	ON Semi. 1N4148
29	1	H1	SUPPLY 6 pins male hdr	TE Connectivity AMP MAT-156 640445-6
30	1	H2	ICD 6 pins male header	TE Connectivity AMP male 640456-6
31	1	H16	FROM DAC OUT	2 wires connected to DAC output (ADC-DAC header H3)
32	2	H4	MIDI OUT	5 pins female DIN connector Amphenol T3359009U
33	1	H5	10 pins male header	TE Connectivity AMP male 1-640456-0
34	1	H6	10 pins female recept.	TE Connectivity AMP female 4-644540-0
35	1	H7	16X4 LCD	Any 16X4 LCD DISPLAY 4/8bits parallel
36	1	H10	15 pins SIP socket	Mill-Max 310-93-164-41-001000 (64pins broken to 2 x 15pins)
37	1	H12	4 pins male header	TE Connectivity AMP male 640456-4
38	1	H13	4 pins female recept.	TE Connectivity AMP female 3-644540-4
39	5	J1,J2,J3,J4,J5	1/4" PHONE JACK	Switchcraft 112AX 1/4" phone jack
40	2	LED1,LED2	Red LED	Lumex SSL-LX5093ID (2V drop)
41	1	L5,L6	FERRITE BEADS	Laird-Signal Integrity Products 28L0138-80R-10
42	1	P1	20K trimmer	20K 1T Bourns 3386F-1-203LF
43	1	P2	1Meg LOG pot	Alpha 1 MEG AUDIO part# 1001 1173 (https://smallbear-electronics.mybigcommerce.com/)
44	1	Q1	2N7000	ON SEMI 2N7000 MOSFET N-CH 60V 200MA T092-3
45	1	ROTARY1	ROTARY ENCODER	BOURNS PEC11L
46	2	R15	8 x 10K 5% network	Vishay Dale 71-CSC09A01-10K
47	2	R24	10K 5%	Yageo CFR-25JB-52-10K
48	1	R16	100R 5%	Yageo CFR-25JB-52-100R
49	4	R17,R18,R19,R20	220R 5%	Yageo CFR-25JB-52-220R
50	1	R21	100K 5%	Yageo CFR-25JB-52-100K
51	1	R22	270k 5%	Yageo CFR-25JB-52-270K
52	2	R23,R25	330R 5%	Yageo CFR-25JB-52-330R
53	1	S1	TOGGLE SWITCH SPDT	C&K 7101MDZQE
54	1	U6	PIC16F1783	PIC16F1783-I/SP Microchip CPU
55	1	U7	LF412	Texas LF412CP
56	1	U8	74HC08	Texas CD74HC08E
57	1	U9	CD4013B	Texas CD4013BE

Hardware:

56	1	-	Silkscreened 5 mils thick artwork Front panel PCB	
57	2	-	Cosmo 7602 type 1" knobs	(Available at www.smallbear.com item item: 0808B) or www.synthesizers.com item:794
58	12	-	Round Standoffs 4-40 .250"	KEYSTONE 3478
59	4	-	Stain. Steel screws 4-40 1/2"	Pièces machinerie Delisle
60	4	-	Stain. Steel screws 4-40 3/4"	Pièces machinerie Delisle
61	8	-	Locking hex nuts 4-40 nickel	Pièces mach. Delisle (SPAENAU N-180K-RC)
62	1	-	IC machined socket 28 pins	ASSMAN AR 28-HZL/01/7-TT
63	1	-	Aluminium 1/16" thick front panel (2U Moog style)	
64	-	-	Wiring control voltage	Hookup wire AWG#22