

DECKARD'S DREAM EXPANDER BILL OF MATERIALS REV 1.0.1		
HARDWARE BOARD		
VALUE	DESIGNATOR	QUANTITY
0.1uF	C1, C2, C3, C4, C5, C6, C7, C8, C9, C10, C13, C14, C15, C17	14
39000pF	C11	1
10000pF	C16	1
3300pF	C12	1
AS3310	IC1	1
100K	R1	1
30K	R9	1
10K	R2, R4, R6, R8	4
1K	R11	1
750R	R10	1
470R	R3, R5, R7	3
10-100K LINEAR	POT1, POT2, POT3, POT4, POT5, POT6, POT7, POT10, POT11, POT12, POT13, POT14, POT15, POT16, POT17, POT18	16
10-100K LINEAR	POT8, POT9, POT19	3
	PLD1	1
	SW1	1
	SW2	1
MAIN BOARD		
VALUE	DESIGNATOR	QUANTITY
330uF	C32, C36	2
100uF	C8	1
47uF	C5	1
1uF	C34, C35	2
0.1uF	C2, C3, C6, C7, C10, C13, C14, C15, C16, C17, C18, C19, C20, C21, C22	15
10000pF	C1, C4	2
4700pF	C12	1
560pF	C23, C26, C30, C31	4
100pF	C24, C25, C27, C28, C29	5
1uF	C9, C11, C33, C37	4
AS3340	IC1	1
TL074	IC2, IC6	2
TL072	IC3, IC5	2
MC1496	IC4	1
V2164	IC7	1
TPA152	IC8	1
2N3904	Q1, Q2	2
BAT85S	Z1	1
1M5	R4, R6	2
1M	R38	1
300K	R1, R5	2
180K	R75, R77	2
120K	R45	1
100K	R2, R14, R18	3
68K	R42	1
49K9	R3, R46, R49	3

47K	R24	1
33K	R48	1
30K	R23, R50, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62	12
28K7	R31	1
24K9	R25, R26	2
20K	R15, R65, R66, R67, R69, R70, R71	7
15K	R35, R73, R78, R80	4
12K	R29, R30	2
10K	R8, R9, R11, R12, R13, R16, R19, R27, R34, R39, R74	11
6K8	R79, R82, R83	3
5K6	R33	1
2K7	R37, R43, R81, R84	4
2K49	R17	1
2K2	R20, R21	2
1K8	R36	1
1K5	R28, R32	2
1K2	R40, R41	2
820R	R44	1
499R	R51, R52, R63, R64	4
470R	R7, R10, R76	3
390R	R22	1
220R	R47	1
100R	R68, R72	2
10K	0.2Hz, 2.5kHz	2
500R	SIG	1
200R	REF	1

	CARD	1
	J1	1
	200Hz/2.5Khz	1
	RM TRIM	1
	PLD1	3
		3

CARD BOARD		
VALUE	DESIGNATOR	QUANTITY
330uF	C11	1
100uF	C5, C6, C7, C8, C9, C12	6
10uF	C31, C56, C106, C157	4
0.1uF	C1, C2, C3, C4, C10, C13, C14, C15, C26, C27, C29, C30, C32, C33, C34, C35, C36, C37, C39, C40, C41, C42, C55, C57, C58, C59, C63, C66, C67, C68, C73, C74, C80, C81, C87, C88, C89, C90, C91, C92, C105, C107, C108, C109, C116, C118, C119, C120, C129, C130, C131, C132, C137, C138, C139, C140, C143, C146, C147, C148, C155, C156, C158, C159, C160	65
10000pF	C60, C161, C163, C165	4
560pF	C61, C65, C69, C72, C76, C79, C83, C86, C113, C117, C121, C122, C127, C128, C133, C136, C141, C145, C149, C152	20
100pF	C62, C64, C70, C71, C77, C78, C84, C85, C114, C115, C123, C124, C125, C126, C134, C135, C142, C144, C150, C151	20
47pF	C16, C18, C19, C23, C25, C43, C44, C49, C51, C75, C82, C93, C95, C99, C101, C111, C112, C153, C154	19
22pF	C38, C110	2
1uF	C17, C20, C24, C45, C46, C50, C52, C94, C96, C100, C102	11
1nF	C21, C22, C28, C47, C48, C53, C54, C97, C98, C103, C104	11
1N4148	D1, D2, D3, D4, D5, D6	6

1N914	D7	1
S24DE12001PDFA	IC1	1
TL071	IC2, IC6, IC27	3
R-78E5.0-0.5	IC3	1
R-78E3.3-0.5	IC4, IC5	2
DG202	IC7	1
SPIN FV-1	IC8, IC13, IC22	3
TL072	IC9, IC10, IC12, IC14, IC20, IC21, IC24, IC30, IC33	9
CH	IC11	1
DL	IC15	1
RV	IC23	1
TL074	IC16, IC18, IC25, IC28, IC32	5
V2164	IC17, IC19, IC26, IC29, IC31	5
6N138	IC34	1
74HC14	IC35	1
	IC36	1
BAT85S	Z1, Z2, Z3, Z4, Z5	5
32Khz	ZQ1, ZQ2	2
120K	R131	1
100K	R1, R3, R14, R15, R18, R19, R22, R25, R26, R28, R29, R36, R39, R40, R47, R48, R50, R68, R71, R74, R77, R80, R83, R89, R91, R96, R99, R104, R105, R108, R109, R112, R113, R152, R153, R154, R155, R156, R157	39
68K	R142, R148	2
49K9	R134, R138	2
47K	R59, R65	2
33K	R137	1
30K	R17, R21, R27, R42, R43, R49, R52, R56, R58, R61, R62, R64, R67, R69, R72, R73, R76, R78, R81, R82, R85, R90, R93, R98, R101, R106, R110, R111, R115, R116, R117, R120, R121, R122, R123, R126, R127, R128, R130, R132, R136, R139, R141, R144, R145, R147, R150	47
24K9	R13, R20, R24, R38, R41, R46, R51, R88, R92, R95, R100	11
20K	R32, R33, R34, R54, R103	5
10K	R10, R16, R30	3
1K	R4, R5, R161, R168	4
680R	R151, R158, R159	3
499R	R57, R60, R63, R66, R70, R75, R79, R84, R107, R114, R118, R119, R124, R125, R129, R133, R140, R143, R146, R149	20
470R	R11, R12, R23, R35, R37, R44, R45, R86, R87, R94, R97	11
330R	R165	1
300R	R7, R9	2
270R	R163	1
220R	R135, R160, R164, R166	4
130R	R6, R8	2
100R	R167	1
47R	R162	1
10R	R31, R53, R102	3
0R	R2	1
10K	TR1	1
	J1, J2, J3, J4, J5	5
	LED1, LED2, LED3, LED4, LED5, LED6, MIDI	7
	MIDI IN, MIDI OUT, MIDI THRU	3
	POWER	1
	DC	1

	FUSE	1
		1
		1

MISC		
		QUANTITY
		1
		1
		1
		1
		1
		15
		9
		8
		1
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		4
		2
		5
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		12
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		4
		6
		2
		1

UPDATES LOG		

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FOOTPRINT	NOTE
SMT 0805	CERAMIC SMT CAPACITOR
5MM LS	CERAMIC CAPACITOR
5MM LS	CERAMIC CAPACITOR
5MM LS	CERAMIC CAPACITOR

DIP16	VOLTAGE CONTROLLED ENVELOPE GENERATOR
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	1/4W 1% RESISTOR
	1/4W 1% RESISTOR
	1/4W 1% RESISTOR
	1/4W 1% RESISTOR
	1/4W 1% RESISTOR
	1/4W 1% RESISTOR
PTA2043	SLIDE POTENTIOMETER 20MM TRAVEL
9MM METAL	9MM METAL ROUND SHAFT POTENTIOMETER

PLD-30	2.54MM PITCH 2X15 FEMALE HEADER
EG2301	DP3T SLIDE SWITCH
EG2201	DPDT SLIDE SWITCH

FOOTPRINT	NOTE
10MM DIA / 5MM LS	ELECTROLYTHIC CAPACITOR
8MM DIA / 3.5 LS	ELECTROLYTHIC CAPACITOR
5MM DIA / 2MM LS	ELECTROLYTHIC CAPACITOR
5MM LS	CERAMIC CAPACITOR
SMT 0805	CERAMIC SMT CAPACITOR
5MM LS	CERAMIC CAPACITOR
5MM LS	CERAMIC CAPACITOR
5MM LS	CERAMIC CAPACITOR
5MM LS	CERAMIC CAPACITOR
5MM LS	FILM CAPACITOR

DIP16	VOLTAGE CONTROLLED OSCILLATOR
DIP14	QUAD OPERATIONAL AMPLIFIER
DIP8	DUAL OPERATIONAL AMPLIFIER
DIP14	BALANCED MODULATOR / DEMODULATOR
DIP16	QUAD VOLTAGE CONTROLLED AMPLIFIER
SOIC8	75-mW STEREO AUDIO POWER AMPLIFIER
TO-92	NPN TRANSISTOR
DO-41	SCHOTTKY BARRIER RECTIFIER

	1/4W 1% RESISTOR
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	1/4W 1% RESISTOR
3296X	MULTI-TURN ANGLED TRIMMER
3296X	MULTI-TURN ANGLED TRIMMER
3296X	MULTI-TURN ANGLED TRIMMER

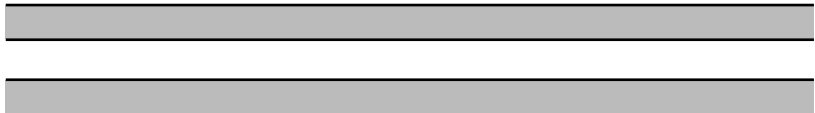
	36PIN EDGE CONNECTOR
	1/4" STEREO JACK
PBD-2	2.54MM PITCH 2X1 MALE HEADER
PBD-4	2.54MM PITCH 2X2 MALE HEADER
PBD-10	2.54MM PITCH 2X5 MALE HEADER
	JUMPER SOCKET

FOOTPRINT	NOTE
10MM DIA / 5MM LS	ELECTROLYTHIC CAPACITOR
8MM DIA /3.5 LS	ELECTROLYTHIC CAPACITOR
5MM DIA / 2MM LS	ELECTROLYTHIC CAPACITOR
SMT 0805	CERAMIC SMT CAPACITOR
5MM LS	CERAMIC CAPACITOR
5MM LS	CERAMIC CAPACITOR
5MM LS	CERAMIC CAPACITOR
5MM LS	CERAMIC CAPACITOR
5MM LS	CERAMIC CAPACITOR
5MM LS	FILM CAPACITOR
5MM LS	FILM CAPACITOR

DO-35	SMALL SIGNAL DIODE
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	FUSE HOLDER
	FUSE HOLDER COVER
	5A FUSE

NOTE	
	POWER SWITCH
	WALLWART ADAPTER
	USA PLUG
	EU PLUG
	UK PLUG
	HEAT SHRINK TUBE
	MTA-156 2 PIN FEMALE HEADER
	MTA-156 2 PIN DUST COVER
	DIP8 SOCKETS
	DIP14 SOCKET
	DIP16 SOCKET
	DIP20 SOCKET
	GREEN SLIDER CAP
	BLACK SLIDER CAP
	YELLOW SLIDER CAP
	GREY SLIDER CAP
	WHITE SLIDER CAP
	FRONT PANEL
	RACK CASE
	M2.5 6MM BLACK PAN HEAD SCREW
	M3x10MM BLACK PAN HEAD SCREW
	M2.5 MF 10MM STANDOFF
	M2.5 FF 12MM STANDOFF
	20 AWG WIRE
	TREMOLO KNOBS (BLACK, VERTICAL KNURL)
	VOLUME KNOB



MOUSER PART #
810-CGA4J2X8R1H104KA
81-RDE5C1H393J2K1H3B
810-FG28C0G1H103JNT6
810-FG28C0G2A332JNT6
https://www.thonk.co.uk/shop/alpha-as-series-ic-chips/
271-100K-RC
271-30K-RC
271-10K-RC
271-1K-RC
271-750-RC
271-470-RC
652-PTA20432015CPB10
http://smallbear-electronics.mybigcommerce.com/alpha-single-gang-9mm-right-angle-pc-mount/
517-929975-01-15-RK
612-EG2301B
612-EG2201B
MOUSER PART #
667-ECA-1VM331
667-EEU-FM1H101
667-ECA-1CM470
810-FG28X5R1H105KRT0
810-CGA4J2X8R1H104KA
810-FG28C0G1H103JNT6
810-FA26C0G2J47200
810-FG28C0G1H561JNT0
810-FG28C0G1H101JNT6
80-R82DC4100CK60J
https://www.thonk.co.uk/shop/alpha-as-series-ic-chips/
595-TL074CN
595-TL072
eBay
https://www.thonk.co.uk/shop/coolaudio-v2164-all/
595-TPA152DR
610-2N3904
78-BAT85S-TAP
271-1.5M-RC
271-1.0M-RC
271-300K-RC
271-180K-RC
271-120K-RC
271-100K-RC
271-68K-RC
271-49.9K-RC

271-47K-RC
271-33K-RC
271-30K-RC
271-28.7K-RC
271-24.9K-RC
271-20K-RC
271-15K-RC
271-12K-RC
271-10K-RC
271-6.8K-RC
271-5.6K-RC
271-2.7K-RC
271-2.49K-RC
271-2.2K-RC
271-1.8K-RC
271-1.5K-RC
271-1.2K-RC
271-820-RC
271-499-RC
271-470-RC
271-390-RC
271-220-RC
271-100-RC
652-3296X-1-103LF
652-3296X-1-501LF
652-3296X-1-201LF

<https://www.ebay.com/itm/321063837659>

1/4" STEREO JACK

517-929836-01-01-RK

517-929836-01-02-RK

517-929836-01-05-RK

855-M7581-05

MOUSER PART #

667-ECA-1VM331

667-EEU-FM1H101

647-UVR1V100MDD1TA

810-CGA4J2X8R1H104KA

810-FG28C0G1H103JNT6

810-FG28C0G1H561JNT0

810-FG28C0G1H101JNT6

810-FG28C0G1H470JNT6

810-FG28C0G1H220JNT6

80-R82DC4100CK60J

80-R82EC1100Z350J

512-1N4148

512-1N914
108-S24DE12001PDFA
595-TL071CP
919-R-78E5.0-0.5
919-R-78E3.3-0.5
781-DG202BDJ-E3
http://smallbear-electronics.mybigcommerce.com/ic-spin-semi-fv-1/
595-TL072
INCLUDED
INCLUDED
INCLUDED
595-TL074CN
https://www.thonk.co.uk/shop/coolaudio-v2164-all/
782-6N138
595-SN74HC14N
INCLUDED
78-BAT85S-TAP
695-CM200C32768DZBT
271-120K-RC
271-100K-RC
271-68K-RC
271-49.9K-RC
271-47K-RC
271-33K-RC
271-30K-RC
271-24.9K-RC
271-20K-RC
271-10K-RC
271-1K-RC
271-680-RC
271-499-RC
271-470-RC
271-330-RC
271-300-RC
271-270-RC
271-220-RC
271-130-RC
271-100-RC
271-47-RC
271-10-RC
652-3362P-1-103LF
502-RN112BPC
604-WP710A10SRD/E
502-57PC5F
5716404452
502-RAPC722X

