

**DECKARD'S DREAM BILL OF MATERIALS REV 1.1.0**

HARDWARE BOARD					
VALUE	DESIGNATOR	QUANTITY	FOOTPRINT	NOTE	MOUSER PART #
15uF	C100, C101	2	5MM DIA / 2MM LS	ELECTROLYTHIC CAPACITOR	598-156PUM035M
0.1uF	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, C49, C50, 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, C86, C87, C88, C89, C92, C93, C94, C95, C96, C97, C98, C99, C102, C103, C104	99	SMT 0805	CERAMIC CAPACITOR	581-08055C104K
CD4051	IC2, IC3, IC5, IC6, IC8, IC9, IC11, IC12, IC14, IC15	10	DIP16	ANALOG MULTIPLEXER/DEMULTIPLEXER	595-CD4051BE
74HC595	IC4, IC7, IC10, IC13, IC16	5	DIP16	8-BIT SHIFT REGISTER WITH 3-STATE OUTPUT REGISTER	595-SN74HC595N
	PLD1	1	PLD-10	2.54M PITCH 2X5 FEMALE HEADER	517-929975-01-05-RK
	PLD2	1	PLD-12	2.54M PITCH 2X6 FEMALE HEADER	517-929975-01-06-RK
47K	R1, R2, R3, R4, R5, R11, R12, R13, R14, R19, R20	11		1/4W 1% RESISTOR	271-47K-RC
10K	R6, R7, R8, R9, R10, R15, R16, R17, R18, R21, R22	11		1/4W 1% RESISTOR	271-10K-RC
1K	R23, R24, R26, R27, R28, R29, R30, R31, R32, R33	10		1/4W 1% RESISTOR	271-1K-RC
	SW1, SW2, SW3, SW4	4		DPDT SLIDE SWITCH	612-EG2201B
	SW5	1		DP3T SLIDE SWITCH	612-EG2301B
	10-100K LINEAR	51		SLIDE POTENTIOMETER 30MM TRAVEL	652-PTA30432015B104
	10-100K LINEAR	10		SLIDE POTENTIOMETER 20MM TRAVEL	652-PTA20432015CPB10
	10-100K LINEAR	9		SLIDE POTENTIOMETER 20MM TRAVEL CENTER DETENT	652-PTA2432215CPB104
	10-100K LINEAR	1		9MM METAL ROUND SHAFT POTENTIOMETER	<a href="http://smallbear-electronics.mybigcommerce.com/alpha-single-gang-9mm-right-angle-pc-mount/">http://smallbear-electronics.mybigcommerce.com/alpha-single-gang-9mm-right-angle-pc-mount/</a>
	BT1, BT2, BT3, BT4, BT5	5	6x6MM	TACT SWITCH 15MM HEIGHT	<a href="http://www.ebay.com/itm/232190328351">http://www.ebay.com/itm/232190328351</a>
	OLED	1		0.96" I2C IIC SPI SERIAL 128X64 WHITE OLED DISPLAY	<a href="http://www.ebay.com/itm/172518846641">http://www.ebay.com/itm/172518846641</a>

**MAIN BOARD**

VALUE	DESIGNATOR	QUANTITY	FOOTPRINT	NOTE	MOUSER PART #
	BREAKOUT	1	IDC-16	16 PIN IDC MALE HEADER	571-1761681-6
330uF	C288, C289, C333, C338	4	10MM DIA / 5MM LS	ELECTROLYTHIC CAPACITOR	667-ECA-1VM331
15uF	C1, C2, C3, C4, C5, C34, C35, C36, C86, C87, C88, C89, C282, C283, C339, C340	16	5MM DIA / 2MM LS	ELECTROLYTHIC CAPACITOR	598-156PUM035M
0.1uF	C11, C13, C14, C15, C16, C18, C19, C20, C21, C23, C24, C30, C33, C38, C40, C43, C50, C52, C55, C62, C64, C67, C74, C76, C79, C90, C91, C93, C95, C98, C102, C103, C107, C110, C111, C113, C115, C118, C123, C127, C128, C130, C131, C133, C135, C138, C145, C146, C148, C149, C151, C153, C156, C163, C164, C167, C169, C172, C185, C187, C190, C203, C205, C208, C221, C223, C226, C239, C241, C244, C250, C251, C253, C254, C257, C259, C262, C268, C269, C270, C271, C274, C275, C280, C281, C290, C291, C296, C297, C298, C299, C308, C309, C310, C311, C316, C317, C319, C320, C336, C337	101	SMT 0805	CERAMIC CAPACITOR	581-08055C104K
10uF	C6	1	SMT 0805	CERAMIC CAPACITOR	963-EMK212BJ106KG-T
4.7uF	C17, C39, C41, C42, C51, C53, C54, C63, C65, C66, C75, C77, C78, C94, C96, C97, C114, C116, C117, C134, C136, C137, C152, C154, C155, C168, C170, C171, C186, C188, C189, C204, C206, C207, C222, C224, C225, C240, C242, C243, C258, C260, C261	43	5MM LS	CERAMIC CAPACITOR	810-FK26X7R1C475K
2.2uF	C7, C8, C108, C124	4	5MM LS	CERAMIC CAPACITOR	810-FG28X5R1E225KRT6
1uF	C12, C334, C335	3	5MM LS	CERAMIC CAPACITOR	810-FG28X5R1H105KRT0
0.47uF	C165, C166, C173, C174, C175, C176, C179, C180, C183, C184, C191, C192, C193, C194, C197, C198, C201, C202, C209, C210, C211, C212, C215, C216, C219, C220, C227, C228, C229, C230, C233, C234, C237, C238, C245, C246, C247, C248, C249, C252, C255, C256, C263, C264, C265, C266, C267	47	5MM LS	CERAMIC CAPACITOR	810-FG26X7R1H474KNT6
0.01uF	C25, C32, C44, C45, C48, C49, C56, C57, C60, C61, C68, C69, C72, C73, C80, C81, C84	17	5MM LS	CERAMIC CAPACITOR	810-FG28C0G1H103JNT6
560pF	C22, C292, C295, C300, C303, C304, C307, C312, C315, C318, C323, C325, C328	13	5MM LS	CERAMIC CAPACITOR	810-FG28C0G1H561JNT0
100pF	C85, C92, C99, C100, C101, C104, C105, C106, C109, C112, C119, C120, C121, C122, C125, C126, C129, C132, C139, C140, C141, C142, C143, C144, C147, C150, C157, C158, C159, C160, C161, C162, C272, C273, C276, C277, C286, C287, C293, C294, C301, C302, C305, C306, C313, C314, C321, C322, C324, C326, C327, C331	52	5MM LS	CERAMIC CAPACITOR	810-FG28C0G1H101JNT6

22pF	C9, C10	2	5MM LS	CERAMIC CAPACITOR	810-FG28C0G1H220JNT6
1uF	C332, C341	2	5MM LS	FILM CAPACITOR	80-R82DC4100AA60J
100nF	C29	1	5MM LS	FILM CAPACITOR	80-R82EC3100DQ70J
1nF	C31	1	5MM LS	FILM CAPACITOR	80-R82EC1100Z350J
BAT43	D1, D2	2	DO-35	SMALL SIGNAL SCHOTTKY DIODE	511-BAT43
STM32F405RGT6	IC1	1	LQFP64	ARM CORTEX-M4 32 BIT MCU	<b>PREINSTALLED</b>
SST25VF040B	IC2	1	SOIC8	4 MBIT SPI SERIAL FLASH	<b>PREINSTALLED</b>
MAX5134	IC8, IC11, IC13, IC15	4	TSSOP16	QUAD 16 BIT VOLTAGE-OUTPUT DAC	<b>PREINSTALLED</b>
MAX5592	IC17, IC21, IC24, IC27, IC30, IC33, IC36, IC39, IC42, IC45	10	TSSOP28	OCTAL 12 BIT VOLTAGE-OUTPUT DAC	<b>PREINSTALLED</b>
TPA152	IC59	1	SOIC8	75-mW STEREO AUDIO POWER AMPLIFIER	<b>PREINSTALLED</b>
CD4051	IC3, IC4	2	DIP16	ANALOG MULTIPLEXER/DEMULTIPLEXER	595-CD4051BE
TL062	IC5, IC6, IC51, IC58	4	DIP8	DUAL OPERATIONAL AMPLIFIER	595-TL062CP
PENTANOISE	IC7	1	DIP8	NOISE GENERATOR	<a href="http://electricdruid.net/product/pentanoise-noise-generator/">http://electricdruid.net/product/pentanoise-noise-generator/</a>
TL431	IC9, IC18	2	TO-92	PRECISION PROGRAMMABLE REFERENCE	595-TL431CLP
TL064	IC19, IC20, IC22, IC23, IC25, IC26, IC28, IC29, IC43, IC44, IC46, IC47, IC48, IC50, IC52, IC54, IC56	17	DIP14	QUAD OPERATIONAL AMPLIFIER	595-TL064IN
V2164	IC53, IC55, IC57	3	DIP16	QUAD VOLTAGE CONTROLLED AMPLIFIER	<a href="https://www.thonk.co.uk/shop/coolaudio-v2164-all/">https://www.thonk.co.uk/shop/coolaudio-v2164-all/</a> <a href="http://synthcube.com/cart/ddrm-60x-v2164-ic">http://synthcube.com/cart/ddrm-60x-v2164-ic</a>
TLV431	IC61	1	TO-92	LOW-VOLTAGE ADJUSTABLE PRECISION SHUNT	595-TLV431AILPR
PLD-10	PBD1	1	PBD-10	2.54M PITCH 2X5 MALE HEADER	517-929836-01-05-RK
PLD-12	PBD2	1	PBD-12	2.54M PITCH 2X6 MALE HEADER	517-929836-01-06-RK
IRLML2402	Q1	1	SOT23	MOSFET	<b>PREINSTALLED</b>
120K	R188, R190	2		1/4W 1% RESISTOR	271-120K-RC
100K	R21, R46, R48, R50, R52, R54, R56, R62, R63, R65, R67, R69, R71, R73, R77, R81, R82, R84, R86, R88, R90, R92, R94, R97, R98, R100, R102, R104, R106, R108, R110, R113, R114	33		1/4W 1% RESISTOR	271-100K-RC
51K	R45, R47, R49, R51, R53, R55, R59, R60, R64, R66, R68, R70, R72, R75, R79, R80, R83, R85, R87, R89, R91, R93, R95, R96, R99, R101, R103, R105, R107, R109, R111, R112	32		1/4W 1% RESISTOR	271-51K-RC
47K	R2	1		1/4W 1% RESISTOR	271-47K-RC
30K	R165, R170, R175, R176, R177, R178, R179, R180, R181, R182, R183, R184, R185, R186, R187, R189, R191, R192, R193, R196, R197, R198, R199, R202, R203, R204, R205, R208, R210, R211, R214, R216, R217, R220, R221, R222, R223, R224, R225, R228, R229, R230, R231, R236, R237	45		1/4W 1% RESISTOR	271-30K-RC
22K6	R162, R167	2		1/4W 1% RESISTOR	271-22.6K-RC
22K	R209, R215	2		1/4W 1% RESISTOR	271-22K-RC
20K	R238, R239, R240, R242, R243, R245	6		1/4W 1% RESISTOR	271-20K-RC
10K	R6, R7, R8, R9, R10, R11, R27, R32, R37, R42, R78, R163, R164, R166, R168, R169, R171	17		1/4W 1% RESISTOR	271-10K-RC
5K6	R20	1		1/4W 1% RESISTOR	271-5.6K-RC
4K7	R3, R4, R13	3		1/4W 1% RESISTOR	271-4.7K-RC
2K	R74	1		1/4W 1% RESISTOR	271-2K-RC
2K2	R15	1		1/4W 1% RESISTOR	271-2.2K-RC
1K3	R76	1		1/4W 1% RESISTOR	271-1.3K-RC
1K	R1, R12, R14, R22, R23, R24, R25, R26, R28, R29, R30, R31, R33, R34, R35, R36, R38, R39, R40, R41, R43, R44, R57, R58, R61, R115, R116, R117, R118, R119, R120, R121, R122, R123, R124, R125, R126, R127, R128, R129, 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	72		1/4W 1% RESISTOR	271-1K-RC
499R	R194, R195, R200, R201, R206, R207, R212, R213, R218, R219, R226, R227	12		1/4W 1% RESISTOR	271-499-RC
100R	R241, R244	2		1/4W 1% RESISTOR	271-100-RC
22R	R5	1		1/4W 1% RESISTOR	271-22-RC
	STLINK	1	IDC-20	20 PIN IDC MALE HEADER	571-1761681-7
BAT85S	Z1, Z2, Z3	3	DO-35	SCHOTTKY BARRIER RECTIFIER	78-BAT85S-TAP
8MHz	ZQ1	1	HC-49/US	AT-CUT CRYSTAL UNIT	695-HC49US-8-U

	J1		1		1/4" STEREO JACK	502-112BX
	POWER, VOICE1, VOICE2, VOICE3, VOICE4, VOICE5, VOICE6, VOICE7, VOICE8		9	EDAC-44	44PIN EDGE CONNECTOR	<a href="http://www.ebay.com/itm/130486232450">http://www.ebay.com/itm/130486232450</a>
<b>VOICE BOARD</b>						
VALUE	DESIGNATOR	QTY (1 CARD)	QTY (8 CARDS)	FOOTPRINT	NOTE	MOUSER PART #
220uF	C1, C2, C3, C4	4	32	8MM DIA / 3.5 LS	ELECTROLYTHIC CAPACITOR	667-ECA-1VM221
47uF	C11, C82	2	16	5MM DIA / 2MM LS	ELECTROLYTHIC CAPACITOR	667-ECA-1CM470
1uF	C30, C31, C42, C77, C97, C98, C109, C142	8	64	5MM DIA / 2MM LS	ELECTROLYTHIC NON-POLARIZED CAPACITOR	647-UVP1H010MDD1TD
0.1uF	C5, C6, C7, C8, C12, C13, C16, C18, C20, C21, C22, C23, C24, C25, C26, C27, C35, C37, C40, C41, C46, C47, C49, C50, C55, C56, C57, C58, C60, C61, C71, C72, C73, C74, C83, C84, C87, C89, C91, C92, C93, C94, C102, C104, C107, C108, C113, C114, C116, C117, C122, C123, C125, C126, C136, C137, C138, C139	58	464	SMT 0805	CERAMIC CAPACITOR	581-08055C104K
0.01uF	C9, C10, C19, C80, C81, C90	6	48	5MM LS	CERAMIC CAPACITOR	810-FG28C0G1H103JNT6
1000pF	C14, C15, C17, C85, C86, C88	6	48	5MM LS	CERAMIC CAPACITOR	810-FG28C0G1H102JNT6
560pF	C33, C34, C36, C44, C45, C48, C51, C54, C62, C66, C67, C70, C75, C79, C100, C101, C103, C111, C112, C115, C118, C121, C127, C131, C132, C135, C140, C144	28	224	5MM LS	CERAMIC CAPACITOR	810-FG28C0G1H561JNT0
180pF	C32, C43, C99, C110	4	32	5MM LS	CERAMIC CAPACITOR	810-FG28C0G1H181JNT6
100pF	C52, C53, C59, C63, C64, C65, C68, C69, C76, C78, C119, C120, C124, C128, C129, C130, C133, C134, C141, C143	20	160	5MM LS	CERAMIC CAPACITOR	810-FG28C0G1H101JNT6
1.5nF	C28, C29, C38, C39, C95, C96, C105, C106	8	64	5MM LS	FILM CAPACITOR	80-R82EC1150AA50J
CEM3340	IC1, IC16	2	16	DIP16	VOLTAGE CONTROLLED OSCILLATOR	<a href="https://www.thonk.co.uk/shop/curtis-cem3340-ic-vco-chip/">https://www.thonk.co.uk/shop/curtis-cem3340-ic-vco-chip/</a> <a href="http://synthcube.com/cart/ddrm-onchip-cem3340-x-17">http://synthcube.com/cart/ddrm-onchip-cem3340-x-17</a>
TL064	IC2, IC6, IC7, IC12, IC14, IC17, IC19, IC20, IC25, IC26	10	80	DIP14	QUAD OPERATIONAL AMPLIFIER	595-TL064IN
74LS74	IC3	1	8	DIP14	POSITIVE EDGE TRIGGERED FLIP FLOP	595-SN74LS74AN
DG403	IC4	1	8	DIP16	SPDT CMOS ANALOG SWITCH	781-DG403DJ-E3
DG202	IC5	1	8	DIP16	SPST CMOS ANALOG SWITCH	781-DG202BDJ-E3
TL062	IC8, IC11, IC21, IC24	4	32	DIP8	DUAL OPERATIONAL AMPLIFIER	595-TL062CP
V2164	IC9, IC10, IC13, IC15, IC22, IC23, IC27	7	56	DIP16	QUAD VOLTAGE CONTROLLED AMPLIFIER	<a href="https://www.thonk.co.uk/shop/coolaudio-v2164-all/">https://www.thonk.co.uk/shop/coolaudio-v2164-all/</a> <a href="http://synthcube.com/cart/ddrm-60x-v2164-ic">http://synthcube.com/cart/ddrm-60x-v2164-ic</a>
2N3904	Q1, Q2, Q3, Q4	4	32	TO-92	NPN TRANSISTOR	610-2N3904
4M7	R52, R53, R67, R68, R158, R159, R173, R174	8	64		1/4W 1% RESISTOR	603-MFR-25FRF52-4M7
1M5	R5, R111	2	16		1/4W 1% RESISTOR	271-1.5M-RC
1M2	R60, R74, R166, R180	4	32		1/4W 1% RESISTOR	603-MFR-25FRF52-1M2
1M	R37, R143	2	16		1/4W 1% RESISTOR	271-1.0M-RC
300K	R6, R112	2	16		1/4W 1% RESISTOR	271-300K-RC
150K	R56, R59, R61, R69, R162, R165, R167, R175	8	64		1/4W 1% RESISTOR	271-150K-RC
120K	R88, R194	2	16		1/4W 1% RESISTOR	271-120K-RC
107K	R24, R130	2	16		1/4W 1% RESISTOR	271-107K-RC
100K	R18, R28, R41, R43, R44, R46, R48, R49, R124, R134, R147, R149, R150, R152, R154, R155	16	128		1/4W 1% RESISTOR	271-100K-RC
73K2	R19, R125	2	16		1/4W 1% RESISTOR	271-73.2K-RC
47K	R1, R17, R107, R123	4	32		1/4W 1% RESISTOR	271-47K-RC
33K	R50, R51, R54, R55, R62, R64, R65, R66, R70, R71, R75, R77, R156, R157, R160, R161, R168, R170, R171, R172, R176, R177, R181, R183	24	192		1/4W 1% RESISTOR	271-33K-RC
31K6	R25, R131	2	16		1/4W 1% RESISTOR	603-MFR-25FRF52-31K6
30K	R16, R78, R81, R83, R84, R85, R86, R90, R91, R92, R93, R95, R98, R99, R100, R101, R104, R105, R106, R122, R184, R187, R189, R190, R191, R192, R196, R197, R198, R199, R201, R204, R205, R206, R207, R210, R211, R212	38	304		1/4W 1% RESISTOR	271-30K-RC
28K7	R32, R138	2	16		1/4W 1% RESISTOR	271-28.7K-RC
24K9	R20, R21, R126, R127	4	32		1/4W 1% RESISTOR	271-24.9K-RC
15K	R94, R200	2	16		1/4W 1% RESISTOR	271-15K-RC
12K	R42, R47, R148, R153	4	32		1/4W 1% RESISTOR	271-12K-RC
10K	R2, R3, R4, R9, R11, R22, R23, R26, R27, R34, R38, R108, R109, R110, R115, R117, R128, R129, R132, R133, R140, R144	22	176		1/4W 1% RESISTOR	271-10K-RC
8K2	R82, R188	2	16		1/4W 1% RESISTOR	271-8.2K-RC
5K6	R33, R139	2	16		1/4W 1% RESISTOR	271-5.6K-RC
4K99	R30, R136	2	16		1/4W 1% RESISTOR	271-4.99K-RC
3K6	R29, R135	2	16		1/4W 1% RESISTOR	271-3.6K-RC
2K49	R10, R116	2	16		1/4W 1% RESISTOR	271-2.49K-RC
2K2	R13, R14, R119, R120	4	32		1/4W 1% RESISTOR	271-2.2K-RC

2K	R36, R142	2	16		1/4W 1% RESISTOR	271-2K-RC
1K8	R35, R141	2	16		1/4W 1% RESISTOR	271-1.8K-RC
1K	R12, R31, R118, R137	4	32		1/4W 1% RESISTOR	271-1K-RC
820R	R39, R145	2	16		1/4W 1% RESISTOR	271-820-RC
499R	R57, R58, R63, R72, R73, R76, R79, R80, R87, R89, R96, R97, R102, R103, R163, R164, R169, R178, R179, R182, R185, R186, R193, R195, R202, R203, R208, R209	28	224		1/4W 1% RESISTOR	271-499-RC
470R	R7, R8, R113, R114	4	32		1/4W 1% RESISTOR	271-470-RC
390R	R15, R121	2	16		1/4W 1% RESISTOR	271-390-RC
1N5221	Z1, Z2, Z4, Z5, Z9, Z10, Z12, Z13	8	64	DO-35	ZENER DIODE 2.4V	78-1N5221B
1N5817	Z3, Z6, Z7, Z8, Z11, Z14, Z15	7	56	DO-35	SCHOTTKY BARRIER RECTIFIER	511-1N5817

#### PSU BOARD

VALUE	DESIGNATOR	QUANTITY	FOOTPRINT	NOTE	MOUSER PART #
330uF	C10	1	10MM DIA / 5MM LS	ELECTROLYTHIC CAPACITOR	667-ECA-1VM331
330uF	C13	1	8MM DIA /3.5 LS	ELECTROLYTHIC CAPACITOR	667-EEU-FS1V331LB
1uF	C12	1	8MM DIA /3.5 LS	ELECTROLYTHIC CAPACITOR	647-UPM2C010MPD
100uF	C9, C11, C14, C16	4	8MM DIA /3.5 LS	ELECTROLYTHIC CAPACITOR	667-EEU-FM1H101
0.1uF	C1, C2, C3, C4, C6, C7, C8	7	5MM LS	CERAMIC CAPACITOR	581-SA105E104Z
CINCON CHB75	CINCON +12V, CINCON -12V	2		12V DC-DC CONVERTER	418-CHB75-12S12
		2		HEAT SINK (CHECK UPDATES LOG)	418-M-C092
		2		THERMAL PAD (CHECK UPDATES LOG)	418-G6135041091
	FUSE	1		FUSE HOLDER	534-4527
		1		FUSE HOLDER COVER	534-4527C
5A		1		5A FUSE	576-0218005.MXP
	GND	1		TEST POINT	534-5123
R-78E5.0-0.5	IC1	1		5V 0.5A VOLTAGE REGULATOR	919-R-78E5.0-0.5
R-78E3.3-0.5	IC2	1		3.3V VOLTAGE REGULATOR	919-R-78E3.3-0.5
LM7905	IC3	1	TO-220	-5V VOLTAGE REGULATOR	512-LM7905CT
R-78E5.0-1.0	IC4	1		5V 1A VOLTAGE REGULATOR	919-R-78E5.0-1.0
68uH	L1	1		INDUCTOR	542-5900-680-RC
	LED1, LED2, LED3, LED4, LED6, LED7	6		3MM LED	604-WP710A10SRD/E
MTA-2	POWER	1	MTA-156	2PIN HEADER	5716404452
1K	R2, R3	2		1/4W 1% RESISTOR	271-1K-RC
300R	R4, R6, R7	3		1/4W 1% RESISTOR	271-300-RC
130R	R8	1		1/4W 1% RESISTOR	271-130-RC
1R	R1	1		1/4W 1% RESISTOR	660-MF1/4DC1R00F

#### OUTPUT BOARD

VALUE	DESIGNATOR	QUANTITY	FOOTPRINT	NOTE	MOUSER PART #
	BREAKOUT	1		16 PIN IDC MALE HEADER	571-1761681-6
15uF	C1, C3	2	5MM DIA / 2MM PITCH	ELECTROLYTHIC CAPACITOR	598-156PUM035M
100uF	C2	1	5MM DIA / 2MM PITCH	ELECTROLYTHIC CAPACITOR	667-ECE-A0JKA101I
0.1uF	C4, C5, C6	3	SMT 0805	CERAMIC CAPACITOR	581-08055C104K
1N914	D1	1	DO-35	DIODE	512-1N914
	DC	1		2.5MM DC JACK	502-RAPC712X
	EXPANSION, MIDI IN, MIDI THRU	3		5 PIN DIN CONNECTOR	502-57PC5F
MTA-2	FAN	1	MTA-100	2PIN HEADER (CHECK UPDATES LOG)	571-6404562
6N138	IC1	1	DIP8	HIGH SPEED OPTOCOUPLER	782-6N138
STMPS2171MTR	IC2	1	SOIC8	SINGLE CHANNEL POWER SWITCH	511-STMPS2171MTR
74HC14	IC3	1	DIP14	HEX SCHMITT-TRIGGER INVERTER	595-SN74HC14N
CD4066	IC4	1	DIP14	QUADBILATERAL SWITCH	595-CD4066BE
	J1, J2	2		RIGHT-ANGLED 1/4" JACK	502-RN112BPC
	LED1	1		3MM LED	604-WP710A10SRD/E
10-100K LINEAR	POT1	1		ANGLED POTENTIOMETER	858-P090L01T15BR10K

MTA-2	POWER		1	MTA-15	2PIN HEADER	5716404452
47K	R6		1		1/4W 1% RESISTOR	271-47K-RC
10K	R5		1		1/4W 1% RESISTOR	271-10K-RC
1K	R7		1		1/4W 1% RESISTOR	271-1K-RC
680R	R1		1		1/4W 1% RESISTOR	271-680-RC
330R	R10		1		1/4W 1% RESISTOR	271-330-RC
270R	R8		1		1/4W 1% RESISTOR	271-270-RC
22R	R2, R3, R4		3		1/4W 1% RESISTOR	271-22-RC
220R	R9, R11, R12		3		1/4W 1% RESISTOR	271-220-RC
	USB		1		USB JACK	538-67068-9000

MISC						
			QUANTITY		NOTE	MOUSER PART #
			1		POWER SWITCH	611-DM22J12S205Q
			1		PSU BRICK	418-TRH70A12012E01VI
			1		HEAT SHRINK TUBE	5174-13161
			2		MTA-156 2 PIN FEMALE HEADER	571-3-640427-2
			2		MTA-156 2 PIN DUST COVER	571-640551-2
			1		MTA-100 2 PIN FEMALE HEADER (CHECK UPDATES LOG)	571-3-640441-2
			1		MTA-100 2 PIN DUST COVER (CHECK UPDATES LOG)	571-6405502
			1		COOLING FAN (CHECK UPDATES LOG)	CFM-5010-03-10
			38		DIP8 SOCKETS	<a href="http://www.ebay.com/itm/291623258279">http://www.ebay.com/itm/291623258279</a>
			107		DIP14 SOCKETS	<a href="http://www.ebay.com/itm/291623283588">http://www.ebay.com/itm/291623283588</a>
			108		DIP16 SOCKETS	<a href="http://www.ebay.com/itm/291623284651">http://www.ebay.com/itm/291623284651</a>
			1		ST LINK PROGRAMMER	511-ST-LINK/V2
			5		RED SLIDER CAP	<a href="https://www.samodular.com/product/switch-caps/">https://www.samodular.com/product/switch-caps/</a>
			17		GREEN SLIDER CAP	
			18		BLACK SLIDER CAP	
			4		YELLOW SLIDER CAP	
			15		GREY SLIDER CAP	
			11		WHITE SLIDER CAP	
			1		FRONT PANEL	<a href="http://siddarthianinnovations.bigcartel.com/product/deckards-dream-pre-order-front-panel-and-rack-case">http://siddarthianinnovations.bigcartel.com/product/deckards-dream-pre-order-front-panel-and-rack-case</a>
			1		RACK CASE	
			1		SCREEN BEZEL	
			15		M3x10MM BLACK PAN HEAD SCREW	
			1		M3 NUT	
			8		M2 4MM BLACK PAN HEAD SCREW	<a href="http://www.ebay.com/itm/172315654876">http://www.ebay.com/itm/172315654876</a>
			30		M2.5 6MM BLACK PAN HEAD SCREW	<a href="http://www.ebay.com/itm/172315654876">http://www.ebay.com/itm/172315654876</a>
			11		M2.5 MF 10MM STANDOFF	<a href="http://www.ebay.com/itm/182032209223">http://www.ebay.com/itm/182032209223</a>
			11		M2.5 FF 12MM STANDOFF	<a href="http://www.ebay.com/itm/272117201039">http://www.ebay.com/itm/272117201039</a>
			4		M2 FF 5MM STANDOFF	<a href="http://www.ebay.com/itm/162165536019">http://www.ebay.com/itm/162165536019</a>
			4		M2.5 MF 25MM STANDOFF	<a href="http://www.ebay.com/itm/191635004246">http://www.ebay.com/itm/191635004246</a>
			10		M2.5 MF 20MM STANOFF	<a href="http://www.ebay.com/itm/191635004246">http://www.ebay.com/itm/191635004246</a>
			2		M2.5 FF 25MM STANOFF	<a href="http://www.ebay.com/itm/191634998627">http://www.ebay.com/itm/191634998627</a>
			1		16 PIN RIBBON CABLE	<a href="http://www.ebay.com/itm/191746923139">http://www.ebay.com/itm/191746923139</a>
			1		20 AWG WIRE	<a href="http://www.ebay.com/itm/371367212983">http://www.ebay.com/itm/371367212983</a>
			1		KNOB	<a href="http://www.smallbear-electronics.mybigcommerce.com/aluminum-knob-large-black/">http://www.smallbear-electronics.mybigcommerce.com/aluminum-knob-large-black/</a>
			4		COOLING FAN RUBBER MOUNT SCREWS (CHECK UPDATES LOG)	<a href="http://www.ebay.com/itm/272684561646">http://www.ebay.com/itm/272684561646</a>
			1		USB A TO USB B ADAPTER	<a href="http://www.ebay.com/itm/112205278525">http://www.ebay.com/itm/112205278525</a>
			1		EPOXY GLUE	

**UPDATES LOG**

REV1.1.0 CORRECTED THE AMOUNT OF DIP16 SOCKETS

REV1.0.9 TL074 CHANGED TO TL064, TL072 CHANGED TO TL062. HEAT SINK, THERMAL PAD, COOLING FAN AND MOUNTING HARDWARE ARE OPTIONAL IF TL06X OPAMPS ARE USED. VOLUME KNOB AND SLIDER CAPS PART# CHANGED.

REV1.0.8 CHANGED C12 TO 1uF, C13 TO 330uF ON THE PSU BOARD
REV1.0.7 CHANGED R2 ON THE OUTPUT BOARD TO 22R, CHANGED C6 ON THE MOTHERBOARD TO 10uF
REV1.0.6 CHANGED 1N5817 TO BAT85S ON THE MOTHERBOARD
REV1.0.5 ADDED USB A TO USB B ADAPTER
REV1.0.4 CORRECTED 30K MOUSER PART # IN A VOICE CARD
REV1.0.3 CHANGED HEAT SINK QUANTITY, C2 ON OUTPUT BOARD IS 100uF NOW
REV1.0.2: ADDED ST LINK PROGRAMMER
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