

Sheet1

Part #	Schematic name	Part Value	Part type	Part cost
1	C1	10n	Capacitor (Ceramic)	0.01
2	C2	.1u	Capacitor (Ceramic)	0.007
3	C3	.1u	Capacitor (Ceramic)	0.007
4	C4	.1u	Capacitor (Ceramic)	0.007
5	C5	.1u	Capacitor (Ceramic)	0.007
6	C6	.1u	Capacitor (Ceramic)	0.007
7	C7	.1u	Capacitor (Ceramic)	0.007
8	C8	.1u	Capacitor (Ceramic)	0.007
9	C9	.1u	Capacitor (Ceramic)	0.007
10	C10	.1u	Capacitor (Ceramic)	0.007
11	C11	.1u	Capacitor (Ceramic)	0.007
12	C12	.1u	Capacitor (Ceramic)	0.007
13	C13	.1u	Capacitor (Ceramic)	0.007
14	C14	.1u	Capacitor (Ceramic)	0.007
15	C15	.1u	Capacitor (Ceramic)	0.007
16	C16	.1u	Capacitor (Ceramic)	0.007
17	C17	.1u	Capacitor (Ceramic)	0.007
18	C18	1u	Capacitor (Ceramic)	0.02
19	C19	.1u	Capacitor (Ceramic)	0.007
20	C20	.1u	Capacitor (Ceramic)	0.007
21	C21	2.2u	Capacitor (Ceramic)	0.05
22	C22	.1u	Capacitor (Ceramic)	0.007
23	C23	2.2n	Capacitor (Ceramic)	0.02
24	C24	330p	Capacitor (Ceramic)	0.02
25	C25	.1u	Capacitor (Ceramic)	0.007
26	C26	.1u	Capacitor (Ceramic)	0.007
27	C27	.1u	Capacitor (Ceramic)	0.007
28	C28	2.7n	Capacitor (Ceramic)	0.04
29	C29	2.7n	Capacitor (Ceramic)	0.04
30	C30	2.7n	Capacitor (Ceramic)	0.04
31	C31	2.2n	Capacitor (Ceramic)	0.04
32	C32	.1u	Capacitor (Ceramic)	0.007
33	C33	.1u	Capacitor (Ceramic)	0.007
34	C34	.1u	Capacitor (Ceramic)	0.007
35	C35	.1u	Capacitor (Ceramic)	0.007
36	C36	.1u	Capacitor (Ceramic)	0.007
37	C37	.1u	Capacitor (Ceramic)	0.007
38	CP1	4.7u	Capacitor (Tantalum)	0.19
39	CP2	10u	Capacitor (Tantalum)	0.13
40	CP3	10u	Capacitor (Tantalum)	0.13
41	CP4	10u	Capacitor (Tantalum)	0.13
42	CP5	4.7u	Capacitor (Tantalum)	0.19
43	CP6	10u	Capacitor (Tantalum)	0.13
44	CP7	10u	Capacitor (Tantalum)	0.13
45	CP8	10u	Capacitor (Tantalum)	0.13
46	CP9	47u	Capacitor (Tantalum)	0.26
47	CP10	10u	Capacitor (Tantalum)	0.13
48	CP11	47u	Capacitor (Tantalum)	0.26

Sheet1

49	CP12	10u	Capacitor (Tantalum)	0.13
50	CP13	10u	Capacitor (Tantalum Polymer)	0.45
51	CP14	10u	Capacitor (Tantalum Polymer)	0.45
52	D1	5V	TVS Diode	0.13
53	D2	5V	TVS Diode	0.13
54	D3		LED A (red)	0.14
55	D4		LED B (red)	0.14
56	D5	5V	TVS Diode	0.13
57	D6	5V	TVS Diode	0.13
58	D7	5V	TVS Diode	0.13
59	F1	2A	PTC Thermal Fuse	0.65
60	FE1		Ferrite bead	0.07
61	J1	3.5mm TRS	Headphone Connector	2.2
62	L1	2.2uH	Inductor	0.28
63	L2	2.2uH	Inductor	0.28
64	P1	USB mini	USB connector	0.95
65	R1	1M	Resistor	0.01
66	R2	4.7	Resistor	0.0044
67	R3	43.2	Resistor	0.0057
68	R4	1k	Resistor	0.028
69	R5	1k	Resistor	0.028
70	R6	10k	Resistor	0.0044
71	R7	1k	Resistor	0.028
72	R8	1k	Resistor	0.028
73	R9	2.2k	Resistor	0.0057
74	R10	2.2k	Resistor	0.0057
75	R11	365k	Resistor	0.0057
76	R12	120k	Resistor	0.0057
77	R13	487k	Resistor	0.0057
78	R14	10k	Resistor	0.0044
79	R15	3.9k	Resistor	0.0057
80	R16	10k	Resistor	0.0044
81	R17	10k	Resistor	0.0044
82	R18	10k	Resistor	0.0044
83	R19	330	Resistor	0.0044
84	R20	1k	Resistor	0.028
85	R21	1k	Resistor	0.028
86	R22	1k	Resistor	0.028
87	R23	27	Resistor	0.0034
88	R24	27	Resistor	0.0034
89	R25	27	Resistor	0.0034
90	R26	10	Resistor	0.0057
91	R27	10k	Resistor	0.0044
92	R28	1k	Resistor	0.028
93	R29	1k	Resistor	0.028
94	R30	1k	Resistor	0.028
95	R31	1k	Resistor	0.028
96	R32	1k	Resistor	0.028
97	R33	1k	Resistor	0.028

Sheet1

98	R34	1k	Resistor	0.028
99	R35	1k	Resistor	0.028
100	R36	1k	Resistor	0.028
101	R37	1k	Resistor	0.028
102	R38	1k	Resistor	0.028
103	R39	1k	Resistor	0.028
104	R40	39.2	Resistor	0.083
105	R41	39.2	Resistor	0.083
106	R42	20	Resistor	0.013
107	R43	20	Resistor	0.013
108	SW1		Push button switch	0.39
109	SW2		Push button switch	0.39
110	U1		XMOS usb bridge	14.3
111	U2		Cypress Flash	0.54
112	U3		SI Clock Generator	1.12
113	U4		TI 3.3v regulator	0.49
114	U5		TI bipolar 5v supply	2.46
115	U6		STM voltage detector	0.44
116	U7		TI adjustable power supply (1v)	0.88
117	U8		Adjustable sequencing delay	0.99
118	U9		TI DAC	6.39
119	U10		TI quad pack opamp	4.59
120	U11		TI headphone driver	5.53
121	W1		Test point Input voltage	
122	W2		Test point SPDIF	
123	W3		Test point i2c SDA	
124	W4		Test point i2c SCL	
125	W5		Test point XMOS audio clock	
126	W6		Test point 24Mhz clock	
127	W7		Test point DAC audio clock	
128	W8		Test point XMOS reset line	
129	W9		Test point ground	
130	W10		Test point 5 volt rail	
131	W11		Test point 3.3 volt rail	
132	W12		Test point 1 volt rail	
133	W13		Test point +5 volt analog rail	
134	W14		Test point -5 volt analog rail	
135	X1	25	MHz crystal	0.58
			Total Component Cost	48.591