

Designed by: JTA Design		Ver: 1	Code:	Parts list: 8 Channel Volume UI	Original by: JTA 29.11.2008 Updated by:
ITEM	REFERENCE	QTY	CODE	DESCRIPTION	MANUFACTURER / SUPPLIER
1	B1	1	ELFA: 74-520-30	8.000 MHz CRYSTAL 30pF 50PPM HC49/HSMX	
2	C1-2 C4-5 C14-15 C66	7	ELFA: 65-758-49 FARNELL: 722236	CER CAPACITOR 10n 10% 50V X7R 0603	
3	C3 C6-7 C61 C65	5	FARNELL: 1288255	CER CAPACITOR 100n 10% 50V X7R 0603	
4	C8	1	FARNELL: 1288264	CER CAPACITOR 10µ 10V X7R 1206	
5	C9	1	FARNELL: 1216463	CER CAPACITOR 1n 10% 1kV X7R 1206	
6	C16-17	2	ELFA: 65-751-04 FARNELL: 498555	CER CAPACITOR 33p 5% 50v NP0/C0G 0603	
7	C62	1	ELFA: 67-237-46	POSCAP 330µ 6.3V 20% 105°C D-CASE	
8	C63	1	ELFA: 67-229-79	TH EL. CAP 470µ 35V 20% 105°C LOW ESR R5 D10	
9	D1	1	FARNELL: 1610178	MSP430F2232 MCU 16 MHZ 8 KB FLASH 256 B RAM TSSOP38	TI: MSP430F2232IDA
10	D2	1	FARNELL: 1014102	74VHC00 QUAD NAND GATE SO14	
11	D3	1	FARNELL: 1146032	FT232RL USB UART SSOP28	FTDI: FT232RL
12	L1	1	ELFA: 58-605-31 FARNELL: 1515679	CHOKE 600R @ 100 MHz 0603	
13	L13 L16	2	ELFA: 58-103-61	POWER INDUCTOR 68µH IRMS 0.87A ISAT 0.95A	WÜRTH: 744777168 COILTRONICS: DR74-680-R
14	N1	1	FARNELL: 1078200	ADuM1201A 2-CHANNEL BIDIR DIGITAL ISOLATOR 1MBPS SO16	ADI: ADuM1201ARZ
15	N13	1	FARNELL: 9489800	SIMPLE SWITCHER 260kHz STEP-DOWN REG 3.3V 1A SO8	
16	R1 R23 R25-26	4	ELFA: 60-450-25 FARNELL: 9238603	RESISTOR 10k 1% 100PPM 50V 63mW 0603	
17	R2-4 R13-20	11	ELFA: 60-452-64 FARNELL: 9238727	RESISTOR 100k 1% 100PPM 50V 63mW 0603	
18	R5-12	8	FARNELL: 9236724	RESISTOR 47R 1% 100PPM 200V 0.25W 1206	
19	R21 R123-125	4	ELFA: 60-447-88 FARNELL: 9238484	RESISTOR 1k 1% 100PPM 50V 63mW 0603	
20	R22	1	FARNELL: 9240870	RESISTOR 1M 1% 100PPM 200V 250mW 1206	
21	R24	1	FARNELL: 9240985	RESISTOR 4k7 1% 100PPM 200V 250mW 1206	
22	S1	1	FARNELL: 1520813	24 POSITION ROTARY ENCODER WITH DISTINCT POSITIONS WITH SWITCH	ALPS: EC12E2424407
23	V1-3	3	ELFA: 75-044-83	7SEG DISPLAY CA 8MM GREEN HDSP-U501	AVAGO: HDSP-U501
24	V4-6	3	FARNELL: 9846298	FDN304P P-FET 25V 52mR SOT-23	
25	V7-14	8	ELFA: 71-096-55 FARNELL: 9845020	FDV303N N-FET 25V 450mR SOT-23	
26	V15	1	FARNELL: 4913140	TSOP36236 IR REMOTE RECEIVER 36 KHZ	VISHAY: TSOP36236
27	V16	1	FARNELL: 9100695 ELFA: 70-217-28	MBRS140T3 SCHOTTKY RECTIFIER 40V 1A SMB (DO-214AA)	ONSEMI: MBRS140T FAIRCHILD: MBRS140
28	V17	1	FARNELL: 9103503	IRLML6402 P-FET 20V 65mR SOT-23	
29	V18	1	FARNELL: 9846778	BCP53 PNP 80V 1A 1.3W SOT223	ONSEMI: BCP53T1 PHILIPS: BCP53 FAIRCHILD: BCP53
30	V19	1	ELFA: 71-301-31	BC847B NPN 45V 100mA 250mW SOT23	

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ITEM	REFERENCE	QTY	CODE	DESCRIPTION	MANUFACTURER / SUPPLIER
31	X1	1		FLATCABLE CONNECTOR 26 PIN WITH LATCHES	
32	X2	1		PINHEADER 4	
33	X5	1		PINHEADER 7X2 R=2.54	
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