

BILL OF MATERIAL FROM 310-0136A.SCH, 12 PARTS, GROUPED BY VALUES, AS OF 5/25/2010 2:37:49 PM

Part	Qty	DEFINITION	MANUFACTURER	MFG_NUMBER	DISTRIBUTOR	DIST_NUMBER	GENERIC	ROHS	COST100	EXT COST
C1, C34, C55, C56	4	CAP CER 1000PF 50V 10% X7R 0402	MURATA	GRM155R71H102KA01D	DIGIKEY	490-1303-1-ND	Y	Y	0.006	0.024
C2, C3, C27	3	CAP CER 20PF 50V 5% NP0 0402	SAMSUNG	CL05C200JB5NNNC	DIGIKEY	1276-1661-1-ND	Y	Y	0.005	0.015
C4, C7, C11, C13, C16, C18, C20, C22, C23, C26, C33, C37, C41, C42, C46, C49, C51, C52, C58, C61, C62, C66	22	CAP CER 0.1UF 25V Y5V 0402	MURATA	GRM155F51E104ZA01D	DIGIKEY	1276-1661-1-ND	Y	Y	0.003	0.066
C5, C6, C10, C12, C24, C65	6	CAP CER 1UF 16V 10% X5R 0603	YAEGO	CC0603KRX5R7BB105	DIGIKEY	311-1444-1-ND	Y	Y	0.033	0.198
C8, C17, C19, C21, C30, C53	6	CAP CER 10000PF 25V 20% X7R 0402	SAMSUNG	CL05B103MA5NNNC	DIGIKEY	1276-1503-1-ND	Y	Y	0.004	0.024
C9	1	CAP TANT 4.7UF 16V 10% 1206	AVX	TAJA475K016RNJ	DIGIKEY	478-3868-1-ND	Y	Y	0.260	0.260
C14, C15, C35, C50	4	CAP CER 2.2UF 16V 10% X5R 0603	TDK	C1608X5R1C225K080AB	DIGIKEY	445-5157-1-ND	Y	Y	0.064	0.257
C25, C29, C64, C70	4	CAP CER 22UF 25V 10% X5R 1210	MURATA	GRM32ER61E226KE15L	DIGIKEY	490-3889-1-ND	N	Y	0.540	2.160
C31	1	CAP CER 8200PF 50V 10% X7R 0603	SAMSUNG	CL10B822KB8NNNC	DIGIKEY	1276-2119-1-ND	Y	Y	0.005	0.005
C32, C59	2	CAP ALUM 100UF 6.3V 20% SMD	NICHICON	UWX0J101MCL1GB	DIGIKEY	493-2088-1-ND	Y	Y	0.114	0.228
C36, C38, C47	3	CAP CER 100UF 10V 20% X5R 1210	SAMSUNG	CL32A107MPVNNNE	DIGIKEY	1276-3364-1-ND	Y	Y	0.735	2.205
C39, C60, C63	3	CAP ALUM 220UF 25V 20% SMD	UNITED CHEMI-CON	EMVY250ADA221MHA0G	DIGIKEY	565-2463-1-ND	N	Y	0.412	1.236
C40	1	CAP CER 0.047UF 25V 10% X7R 0402	TDK	445-4941-1-ND	DIGIKEY	445-4941-1-ND	Y	Y	0.015	0.015
C43, C44, C45, C54	4	CAP CER 100PF 50V 10% NP0 0402	SAMSUNG	CL05C101KB5NNNC	DIGIKEY	1276-1633-1-ND	Y	Y	0.005	0.020
C48	1	CAP CER 0.47UF 25V 10% X5R 0603	TDK	C1608X5R1E474K080AC	DIGIKEY	445-5144-1-ND	Y	Y	0.047	0.047
C57	1	CAP CER 3900PF 50V 10% X7R 0402	MURATA	GRM155R71H392KA01D	DIGIKEY	490-1307-1-ND	Y	Y	0.011	0.011
CN1, CN11	2	CONN HEADER 3POS .100 VERT GOLD	MOLEX	22-10-2031	DIGIKEY	WM2723-ND	N	Y	0.495	0.990
CN2	1	MINIB USB CONN, SMT	JOSEN	JS-MU3-002	JOSEN	JS-MU3-002	N	Y	0.500	0.500
CN3	1	DC POWER CONN, FOR 2.1 X 5.5MM	YQLXDZ	DS-0518	YQLXDZ	DS-0518	N	Y	0.300	0.300
CN4	1	CONN MOD JACK R/A 8P8C	MOLEX	441440003	DIGIKEY	WM4595CT-ND	N	Y	1.387	1.387
CN5, CN6, CN7, CN8, CN9, CN10	6	3.5mm STEREO, SWITCHED SMT CONN.	JOSEN	ST-3509	JOSEN	ST-3509	N	Y	0.200	1.200
CN12	1	CONN RECEPT 16POS 2MM GOLD DIP	HIROSE	A3C-16DA-2DSA(71)	DIGIKEY	H10897-ND	Y	Y	1.638	1.638
D1	1	DIODE SCHOTTKY 30V 0.5A 2TUMD	ROHM SEMI	RSX051VA-30TR	DIGIKEY	RSX051VA-30CT-ND	N	N	0.271	0.271
D2	1	DIODE SCHOTTKY 10V 3A SOD323	STM	BAT60JFILM	DIGIKEY	497-3707-1-ND	Y	Y	0.240	0.240
FB1, FB2, FB3, FB4, FB5, FB6, FB7, FB8	8	FERRITE 500MA 600 OHM 0805 SMD	LAIRD	HZ0805E601R-10	DIGIKEY	240-2399-1-ND	N	Y	0.038	0.305
J1, J3, J4	3	CONN HEADER 2POS .100 VERT GOLD	MOLEX	22-28-4023	DIJIEY	WM6502-ND	Y	Y	0.190	0.570
L1	1	INDUCTOR POWER 4.2UH 2.5A SMD	BOURNS	SRR5028-4R2Y	DIGIKEY	SRR5028-4R2YCT-ND	N	N	0.456	0.456
LD2	1	OPTOISOLATR 5KV TRANSISTOR 4-SMD	LITE-ON	LTV-817S-TA1	DIGIKEY	160-1893-1-ND	N	Y	0.217	0.217
LED1, LED2	2	LED SUPR RED CLR RT ANG 0805	LITE-ON	LTST-S220KRKT	DIGIKEY	160-1469-1-ND	Y	Y	0.115	0.230
LED3	1	LED GREEN CLEAR RT ANG 0805	LITE-ON	LTST-S220KGKT	DIGIKEY	160-1468-1-ND	N	Y	0.135	0.135
LED4	1	LED YELLOW CLEAR RT ANG 0805	LITE-ON	LTST-S220KSKT	DIGIKEY	160-1470-1-ND	N	Y	0.143	0.143
LED5	1	LED 660NM SUPER RED DIFF 0603SMD	LITE-ON	SML-LX0603SRW-TR	DIGIKEY	67-1551-1-ND	Y	Y	0.169	0.169
LED8	1	LED SUPR RED CLR RT ANG 0805	LITE-ON	LTST-S220KRKT	DIGIKEY	160-1469-1-ND	Y	Y	0.115	0.115
MIC1	1	MIC COND ANALOG OMNI -44DB	CUI	CMA-4544PF-W	DIGIKEY	102-1721-ND	N	Y	0.569	0.569
P1, P2, P3, P4, P5, P6, P7, P8, P9, P10, P11, P12, P13, P14, P16, P18, P19, P20	18	TEST PAD, .050	NA	NA	NA	NA	NA	NA	0.000	0.000
PCB1	1	PCB - SM1000 REV. C	TBD(PCB UNIVERSE)	TBD	TBD	TBD	N	Y	5.750	5.750
R1, R7, R8, R25, R34, R37, R43, R44, R45, R48	10	RES 10.0K OHM 1/16W 1% 0402 SMD	VISHAY-DALE	CRCW040210K0FKED	DIGIKEY	541-10.0KLCT-ND	Y	Y	0.017	0.170
R2, R3, R4, R5	4	RES 4.70K OHM 1/16W 1% 0402 SMD	VISHAY-DALE	CRCW04024K70FKED	DIGIKEY	541-4.70KLCT-ND	Y	Y	0.026	0.104
R6, R17	2	RES 1.00K OHM 1/16W 1% 0402 SMD	VISHAY-DALE	CRCW04021K00FKED	DIGIKEY	541-1.00KLCT-ND	Y	Y	0.026	0.052
R9, R29	2	RES 1.50K OHM 1/16W 1% 0402 SMD	VISHAY-DALE	CRCW04021K50FKED	DIGIKEY	541-1.50KLCT-ND	Y	Y	0.026	0.052
R10	1	RES 47.0 OHM 1/10W 1% 0603 SMD	VISHAY-DALE	CRCW060347R0FKEA	DIGIKEY	541-47.0HCT-ND	Y	Y	0.025	0.025
R11, R32	2	RES 100 OHM 1/10W 1% 0603 SMD	VISHAY	CRCW0603100RFKEA	DIGIKEY	541-100HCT-ND	Y	Y	0.030	0.060
R12, R13, R15, R16	4	RES 680 OHM 1/16W 1% 0402 SMD	VISHAY-DALE	CRCW0402680RFKED	DIGIKEY	541-680LCT-ND	Y	Y	0.026	0.104
R14	1	RES 220 OHM 1/16W 1% 0402 SMD	VISHAY-DALE	CRCW0402220RFKED	DIGIKEY	541-220LCT-ND	Y	Y	0.026	0.026
R18, R21, R26, R30, R31, R54, R55	7	RES 0.0 OHM 1/10W JUMP 0603 SMD	VISHAY-DALE	CRCW06030000Z0EA	DIGIKEY	541-0.0GCT-ND	Y	Y	0.025	0.175
R19, R20	2	RES 22.0 OHM 1/10W 1% 0603 SMD	VISHAY-DALE	CRCW060322R0FKEA	DIGIKEY	541-22.0HCT-ND	Y	Y	0.025	0.050
R22	1	RES 22.1K OHM 1/10W 1% 0603 SMD	VISHAY-DALE	CRCW060322K1FKEA	DIGIKEY	541-22.1KHCT-ND	Y	Y	0.025	0.025
R23, R24	2	RES 47.0K OHM 1/16W 1% 0402 SMD	VISHAY-DALE	CRCW040247K0FKED	DIGIKEY	541-47.0KLCT-ND	Y	Y	0.026	0.052
R27, R28	2	RES 22.0 OHM 1/16W 1% 0402 SMD	VISHAY-DALE	CRCW040222R0FKED	DIGIKEY	541-22.0LCT-ND	Y	Y	0.026	0.052
R33, R38, R40, R41, R53, R56, R58	7	RES 2.20K OHM 1/16W 1% 0402 SMD	VISHAY-DALE	CRCW04022K20FKED	DIGIKEY	541-2.20KLCT-ND	Y	Y	0.017	0.119
R35	1	RES 124K OHM 1/16W 1% 0402 SMD	VISHAY-DALE	CRCW0402124KFKED	DIGIKEY	541-124KLCT-ND	Y	Y	0.044	0.044
R36	1	RES 124K OHM 1/16W 1% 0402 SMD	VISHAY-DALE	541-22.1KLCT-ND	DIGIKEY	541-22.1KLCT-ND	Y	Y	0.026	0.026
R39	1	RES 4.70 OHM .5W 1% 1206 SMD	VISHAY DALE	CRCW12064R70FKEAHP	DIGIKEY	541-4.70UCT-ND	Y	Y	0.225	0.225
R42	1	TRIMMER 500K OHM 0.2W SMD	PANASONIC	EVM-1DSX30B55	DIGIKEY	P1D504CT-ND	Y	Y	0.339	0.339
R46	1	POT 100K OHM 9MM SQ RTANG PLAST	BOURNS	3310C-001-104L	DIGIKEY	3310C-001-104L-ND	N	Y	1.920	1.920
R47	1	TRIMMER 500 OHM 0.2W SMD	PANASONIC	EVM-1DSX30B52	DIGIKEY	P1D501CT-ND	Y	Y	0.339	0.339
R49	1	RES 4.7 OHM 1/16W 5% 0402 SMD	VISHAY-DALE	541-4.7JCT-ND	DIGIKEY	541-4.7JCT-ND	Y	Y	0.023	0.023
R50	1	RES 10.0 OHM 1/10W 1% 0603 SMD	VISHAY-DALE	CRCW060310R0FKEA	DIGIKEY	541-10.0HCT-ND	Y	Y	0.025	0.025
R51	1	RES 390 OHM 1/16W 1% 0402 SMD	VISHAY-DALE	CRCW0402390RFKED	DIGIKEY	541-390LCT-ND	Y	Y	0.044	0.044

R52	1 TRIMMER 1K OHM 0.2W SMD	PANASONIC	EVM-1DSX30B13	DIGIKEY	P1D102CT-ND	Y	Y	0.339	0.339
R57	1 RES 470 OHM 1/16W 1% 0402 SMD	VISHAY-DALE	CRCW0402470RFKED	DIGIKEY	541-470LCT-ND	Y	Y	0.044	0.044
SH1, SH3	2 SHUNT LP 2 POS SN	TYCO AMP	1-382811-6	DIGIKEY	A26231-ND	Y	Y	0.210	0.420
SPKR1	1 SPKR, 40mm,8Ohm	SHENZHEN HY ELECTRON	HY4004M-001	SHENZHEN HY ELECTRON	HY4004M-001	N	Y	0.500	0.500
SW1, SW2, SW4	3 4.5X4.5mm TACTILE SWIRCH RA TH	YQLXDZ	TS-026	YQLXDZ	TS-026	N	Y	0.050	0.150
SW3	1 SWITCH PUSH DPDT 0.1A 30V	E-SWITCH	PBH2UEENAGX	DIGIKEY	EG2655-ND	N	Y	1.332	1.332
SW5	1 4.5X4.5mm TACT SWITCH SMT	YQLXDZ	TS-02B	YQLXDZ.COM	TS-02B	N	Y	0.050	0.050
T1, T2	2 TRANSF LINE MATCHING SMD	BOURNS	SM-LP-5001E	DIGIKEY	SM-LP-5001ECT-ND	N	Y	1.506	3.012
U1	1 IC MCU 32BIT 1MB FLASH 100LQFP	STM	STM32F407VGT6	DIGIKEY	497-11605-ND	N	Y	9.878	9.878
U2	1 IC REG LDO 3.3V 0.15A SOT23-5	STM	LD3985M33R	DIGIKEY	497-3504-1-ND	N	Y	0.466	0.466
U3	1 IC PWR SWITCH 1CH 500MA SOT23-5	STM	STMP52141STR	DIGIKEY	497-6933-1-ND	N	Y	0.480	0.480
U4	1 I C EMI FILTR/ESD PROT 11FLIPCHIP	STM	EMIF02-USB03F2	DIGIKEY	497-13521-1-ND	N	Y	0.525	0.525
U5	1 IC REG BUCK SYNC ADJ 3A 8SOPWR	TI	TPS54329EDDAR	DIGIKEY	296-29856-1-ND	N	Y	1.650	1.650
U6, U7, U9	3 IC OPAMP GP 1MHZ RRO SOT23-	TI	LMV341IDBVR	DIGIKEY	296-17843-1-ND	N	Y	0.556	1.668
U8	1 IC AMP AUDIO PWR .325W AB 8SOIC	TI	LM386MX-1/NOPB	DIGIKEY	LM386MX-1/NOPBCT-ND	N	Y	0.687	0.687
XTAL1	1 CRYSTAL 8MHZ 20PF SMD	CTS	405C35E08M00000	DIGIKEY	405C35E08M00000-ND	Y	Y	0.550	0.550
TOYAL COST								47.758	