

Bill of Materials from SM1000-C.sch, 199 parts, grouped by values, as of 10/16/2014 7:51:05 PM

Part	Qty	DEFINITION	MANUFACTURER	MFG_NUMBER	DISTRIBUTOR	DIST_NUMBER	GENERIC	ROHS	COST100	EXT COST
C1, C34, C55, C56	4	CAP CER 1000PF 25V 10% X7R 0603	MURATA	GRM188R71E102KA01D	DIGIKEY	490-8626-1-ND	Y	Y	0.013	0.052
C2, C3, C27	3	CAP CER 20PF 50V 5% NP0 0603	MURATA	GRM1885C1H200JA01D	DIGIKEY	490-1410-1-ND	Y	Y	0.021	0.063
C4, C7, C11, C13, C16, C18, C20, C22, C33, C37, C41, C42, C49, C51, C52, C58, C61, C62, C66	19	CAP CER 0.1UF 16V 10% X5R 0603	YAIYO YUDEN	EMK107BJ104KAHT	DIGIKEY	587-3308-1-ND	Y	Y	0.042	0.798
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, C53	5	CAP CER 10000PF 16V 10% X7R 0603	TDK	CGJ3E2X7R1C103K080AA	DIGIKEY	445-8130-1-ND	Y	Y	0.070	0.350
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
C23, C26, C46	3	CAP CER 0.1UF 25V 10% X7R 0603	MURATA	GRM188R71E104KA01D	DIGIKEY	490-1524-1-ND	Y	Y	0.008	0.024
C25, C70	2	CAP CER 22UF 25V 10% X5R 1210	MURATA	GRM32ER61E226KE15L	DIGIKEY	490-3889-1-ND	N	Y	0.540	1.080
C28, C29, C64	3	CAP CER 10UF 25V 10% X5R 1206	SAMSUNG	CL31A106KAHNNNE	DIGIKEY	1276-1075-1-ND	Y	Y	0.080	0.239
C30	1	CAP CER 10000PF 25V 10% X7R 0603	MURATA	GRM188R71E103KA01D	DIGIKEY	490-1520-1-ND	Y	Y	0.011	0.011
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% X5R 0603	AVX	06033D473KAT2A	DIGIKEY	478-5051-1-ND	Y	Y	0.124	0.124
C43, C44, C45	3	CAP CER 100PF 50V 10% NP0 0603	SAMSUNG	CL10C101KB8NNNC	DIGIKEY	1276-2167-1-ND	Y	Y	0.012	0.036
C48	1	CAP CER 0.47UF 25V 10% X5R 0603	TDK	C1608X5R1E474K080AC	DIGIKEY	445-5144-1-ND	Y	Y	0.047	0.047
C54	1	CAP CER 100PF 16V 10% X7R 0603	AVX	0603YC101KAT2A	DIGIKEY	478-6207-1-ND	Y	Y	0.063	0.063
C57	1	CAP CER 3900PF 50V 10% X7R 0603	AVX	06035C392KAT2A	DIGIKEY	478-1222-1-ND	Y	Y	0.048	0.048
CN1, CN11	2	CONN HEADER 3POS .100 VERT GOLD	MOLEX	22-10-2031	DIGIKEY	WM2723-ND	N	Y	0.495	0.990
CN2	1	CONN RECEPT MINIUSB R/A 5POS SMD	MOLEX	675031020	DIGIKEY	WM5461CT-ND	N	Y	0.856	0.856
CN3	1	CONN JACK R/A .080 PIN SMD"	SWITCHCRAFT	RASM722PX	DIGIKEY	RASM722PX-ND	N	N	1.133	1.133
CN4	1	CONN MOD JACK R/A 8P8C	MOLEX	441440003	DIGIKEY	WM4595CT-ND	N	Y	1.387	1.387
CN5, CN7, CN9, CN10	4	CONN AUDIO JACK MONO 3.5MM SMD	CUI	MJ-3523-SMT-TR	DIGIKEY	CP-3523MJTR-ND	N	Y	0.796	3.184
CN6, CN8	2	CONN AUDIO JACK 3.5MM STEREO SMD	CUI	SJ-3524-SMT-TR	DIGIKEY	CP-3524SJCT-ND	N	Y	0.811	1.622
CN12	1	2MM V PCB RECEPTACLE 16P DR THRU-HOLE TIN	HIROSE	DF11-16DS-2DSA(05)	MOUSER	798-DF11-16DS-2DSA05	N	Y	0.924	0.924
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	IAIRD	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	DIJKEY	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-8175-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, P15, P16, P17, P18, P19, P20	20	TEST PAD, .050	NA	NA	NA	NA	NA	NA	0.000	0.000
PCB1	1	PCB - SM1000 REV. C	?	?			N	Y	6.500	6.500
R1, R7, R8, R25, R34, R37, R43, R44, R45, R48	10	RES 10.0K OHM 1/10W 1% 0603 SMD	VISHAY-DALE	CRCW060310K0FKEA	DIGIKEY	541-10.0KHCT-ND	Y	Y	0.025	0.250
R2, R3, R4, R5	4	RES 4.70K OHM 1/10W 1% 0603 SMD	VISHAY-DALE	CRCW06034K70FKEA	DIGIKEY	541-4.70KHCT-ND	Y	Y	0.025	0.100
R6, R17	2	RES 1.02K OHM 1/10W 1% 0603 SMD	VISHAY-DALE	CRCW06031K02FKEA	DIGIKEY	541-1.02KHCT-ND	Y	Y	0.025	0.050
R9, R29	2	RES 1.50K OHM 1/10W 1% 0603 SMD	VISHAY DALE	CRCW06031K50FKEA	DIGIKEY	541-1.50KHCT-ND	Y	Y	0.025	0.050
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 1/10W 1% 0603 SMD	VISHAY	CRCW0603680RFKEA	DIGIKEY	541-680HCT-ND	Y	Y	0.025	0.100
R14	1	RES 220 OHM 1/10W 1% 0603 SMD	VISHAY-DALE	CRCW0603220RFKEA	DIGIKEY	541-220HCT-ND	Y	Y	0.025	0.025
R18, R21, R26, R30, R31, R54, R55	7	RES 0.0 OHM 1/8W JUMP 0805 SMD	VISHAY-DALE	CRCW08050000Z0EA	DIGIKEY	541-0.0ACT-ND	Y	Y	0.024	0.168
R19, R20, R27, R28	4	RES 22.0 OHM 1/10W 1% 0603 SMD	VISHAY-DALE	CRCW060322R0FKEA	DIGIKEY	541-22.0HCT-ND	Y	Y	0.025	0.100
R22, R36	2	RES 22.1K OHM 1/10W 1% 0603 SMD	VISHAY-DALE	CRCW060322K1FKEA	DIGIKEY	541-22.1KHCT-ND	Y	Y	0.025	0.050
R23, R24	2	RES 47.0K OHM 1/10W 1% 0603 SMD	VISHAY-DALE	CRCW060347K0FKEA	DIGIKEY	541-47.0KHCT-ND	Y	Y	0.025	0.050
R33, R38, R40, R41, R53, R56, R58	7	RES 2.20K OHM 1/10W 1% 0603 SMD	VISHAY-DALE	CRCW06032K20FKEA	DIGIKEY	541-2.20KHCT-ND	Y	Y	0.025	0.175
R35	1	RES 124K OHM 1/10W 1% 0603 SMD	VISHAY-DALE	CRCW0603124KFKEA	DIGIKEY	541-124KHCT-ND	Y	Y	0.025	0.025
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 Resistors - Through Hole 3/8inch 500K LEADFRE Thumbwheel	TT ELECTRONICS	91AR500KLF	MOUSER	858-91AR500KLF	N	Y	1.060	1.060
R46	1	RES 100K OHM 1/8W 5% 0805 SMD	VISHAY/DALE	CRCW0805100KJNEA	DIGIKEY	541-100KACT-ND	Y	Y	0.024	0.024
R47	1	Trimmer Resistors - Through Hole 3/8inch 500 LEADFREE Thumbwheel	TT ELECTRONICS	91AR500LF	MOUSER	858-91AR500LF	N	Y	1.060	1.060

R49	1 RES 4.70 OHM 1/10W 1% 0603 SMD	VISHAY-DALE	CRCW06034R70FKEA	DIGIKEY	541-4.70HHCT-ND	Y	Y	0.025	0.025
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 1/10W 1% 0603 SMD	VISHAY-DALE	CRCW0603390RFKEA	DIGIKEY	541-390HCT-ND	Y	Y	0.025	0.025
R52	1 RES 1.0K OHM 1/8W 5% 0805 SMD	VISHAY/DALE	CRCW08051K00JNEA	DIGIKEY	541-1.0KACT-ND	Y	Y	0.033	0.033
R57	1 RES 470 OHM 1/10W 1% 0603 SMD	VISHAY DALE	CRCW0603470RFKEA	DIGIKEY	541-470HCT-ND	Y	Y	0.035	0.035
SH1, SH3	2 SHUNT LP 2 POS SN	TYCO AMP	1-382811-6	DIGIKEY	A26231-ND	Y	Y	0.210	0.420
SW1, SW2, SW4	3 SWITCH TACTILE SPST-NO 0.1A 24V	BOURNS	7914S-1-000E	DIGIKEY	7914S-1-000ECT-ND	N	Y	0.770	2.310
SW3	1 SWITCH PUSH DPDT 0.1A 30V	E-SWITCH	PBH2UEENAGX	DIGIKEY	EG2655-ND	N	Y	1.332	1.332
SW5	1 Tactile Switches 4mm KEY SWITCH SMD J-Hook	BOURNS	7914J-1-000E	MOUSER	652-7914J-1-000E	N	Y	0.441	0.441
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	STM32F405VGT6	DIGIKEY	497-11910-ND	N	Y	9.364	9.364
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	STMPS2141STR	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

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