

Bill of Materials

SC1000 Main PCB

Qty	Designator(s)	Description	Manufacturer Part Number	Mouser	Note
1	C1	Capacitor Ceramic 1206 4.7uF 16V X7R	C1206C475Z4VACTU	581-1206YC475MAT2A	
1	C2	Capacitor Ceramic 1206 10uF 10v X7R	C3216X7R1C106M160AC	810-C3216X7R1C106M	
3	C3, C7, C8	Capacitor Ceramic 1206 0.1uF 10v X7R	C1206C104M5RACTU	77-VJ1206Y104JXAAR	
1	J1	Connector Header 4x1 2.54mm	901200124	649-86140042YO2319LF	1
1	J2	Connector USB Type A	48204-0001	538-48204-0001	
1	J3	Connector Header 2x2 2.54mm	861400042YO2319LF	649-86140042YO2319LF	1
1	J4	Connector Header 1x1 2.54mm	TSW-101-07-T-S	200-TSW10107TS	1
1	J5	Connector 3.5MM Stereo Jack	35RAPC4BH3	502-35RAPC4BH3	
1	J6	Connector USB Type Micro-B	2108877-1	571-2108877-1	
1	J7	Connector Header 2x5 2.54mm	NOT FITTED	NOT FITTED	2
1	J8	Connector Header 1x6 2.54mm	NOT FITTED	NOT FITTED	3
1	L1	Inductor 2424 2.2uH 3.7A 26mOhm	NR6028T2R2N	963-NR6028T2R2N	
9	R1, R7, R8, R9, R10, R11, R12, R13, R14	Resistor 1206 4.7K 1/4W 20%	RC1206JR-134K7L		
1	R2	Resistor 1207 442K 1/4W 1%	RC1206FR-07442KL	603-RC1206FR-07442KL	
1	R3	Resistor 1207 102K 1/4W 1%	RC1206FR-07102KL	603-RC1206FR-07102KL	
2	R5, R15	Potentiometer 100K	PTV09A-2020S-B104	652-PTV09A2020SB104	
1	R16	NOT FITTED	NOT FITTED	NOT FITTED	
1	S1	Switch DPST	PB400EEQR1BLK	612-PB400EEQR1BLK	
1	S2, S3	Switch Dual SPST, Dual	TL2243	612-TL2243	
1	U1	IC Rotary Sensor SOIC-8	AS5601-ASOM	985-AS5601-ASOM	
1	U2	IC Buck Converter SOT23-5	TLV62568DBVR	TLV62568DBVR	
1	U3	IC MCU PIC18	PIC18LF14K22-I/SO	579-PIC18LF14K22I/SO	
1	U4	SoM A13	Olimex A13-SOM-256 SoM		4
2	U4-1, U4-3	Connector Header 2x5 1.27mm	221121-00010D4LF	649-221121-00010D4LF	
2	U4-2, U4-4	Connector Header 2x5 1.27mm	221121-00040D4LF	649-221121-00040D4LF	

Notes :

1 - If you're just building a few of these, buy 4x1 headers for J1 and snap some off for J3/J4

2 - Expansion connector, only populate if required

3 - Used only one time for programming the MCU, need not be populated

4 - Purchase direct from Olimex