

KARABAS-128 BOM LIST

Value	Quantity	Package	Elements
Integrated Circuits			
Z84C006	1	DIP-40	IC1
W27C512	1	DIP-28	IC2
UT621024-70LL	1	DIP-32	IC3
74HC04N	1	DIP-14	IC4
74HC245N	3	DIP-20	IC5, IC6, IC7
74HC573N	1	DIP-20	IC8
TL712	1	DIP-08	IC9
EPM7128STC100	1	TQFP-100	IC10
AD724JR	1	SO16W	IC11
AY-3-8912A	1	DIP-28	IC12
LM2596S-5.0	1	TO263-5	IC13
Transistors			
BC548	5	TO92	Q2, Q3, Q4, Q5, Q15
2SA1175	8		Q7, Q8, Q9, Q10, Q11, Q12, Q13, Q14
Capacitors			
10pF	2		C17, C20
22pF	1		C21
100pF	1		C1
1nF	2		C24, C25
3,3nF	2		C16, C28
100nF	21		C2, C4, C5, C6, C7, C8, C9, C10, C11, C12, C13, C14, C15, C18, C23, C26, C27, C31, C32, C33, C35
100nF smd 0805	5	0805	C3, C37, C38, C39, C40
10uF	3	low profile electrolytic cap, 2.5mm	C22, C29, C30
220uF	2	low profile electrolytic cap, 2.5mm	C19, C36
680uF	1	low profile electrolytic cap, 5mm	C34
Diodes			
2w10m	1		B1
1n4742a	1		D1
1n4740a	1		D2
1n5822	1		D3
1n4148	1		D4
Quartz resonators			
14MHz	1	HC49/S	Q1
4.433MHz	1	HC49/S	Q6
Resistors			
68	6	0.25W	R18, R19, R20, R21, R22, R23
75	4	0.25W	R26, R27, R28, R30
150	1	0.25W	R33
270	3	0.25W	R24, R25, R32
470	2	0.25W	R1, R2
1k	6	0.25W	R34, R35, R36, R37, R42, R45
2k	4	0.25W	R43, R44, R46, R49
2k2	4	0.25W	R6, R15, R16, R17
2k7	1	0.25W	R29
3k9	3	0.25W	R10, R12, R14
4k7	3	0.25W	R3, R47, R48
10k	8	0.25W	R4, R5, R7, R8, R31, R39, R51, R52
12k	2	0.25W	R38, R50
18k	3	0.25W	R9, R11, R13
33k	1	0.25W	R41
470k	1	0.25W	R40
8 x 10k	2	resistor network, common pin 1	RN1, RN3
5 x 10k	1	resistor network, common pin 1	RN2
Inductors			
68uH	1	power inductor, 12.5x12.5mm	L1
Connectors			
Power jack	1	5mm common jack	J1
Pin header 1x2	1		X9
Pin header 1x3	4	2.54mm header	JP1, JP2, JP3, JP5
Pin header 2x5 shrouded	1	shrouded 2.54mm header	X6
Pin header 1x9	1	2.54mm header	X3
RCA connector	1	3 pin RCA	X1
Mini-DIN 8	1		X2
Audio jack 3.5mm	2		X4, X5
1x5 FPC	1		X7
1x8 FPC	1		X8
Push button, right angled	1		S1