

BILL OF MATERIAL

Comment	Footprint	Quantity	Designators
0.01uF/2K	0603	1	C85
0.1uF	0603	14	C9 C10 C11 C12 C13 C14 C15 C16 C23 C24 C25 C26 C71 C72
1.5K	0603	1	R41
100uF/16V	7343	2	C82 C81
103	0603	3	C17 C18 C19
104	0603	30	C57 C60 C62 C76 C48 C55 C61 C63 C64 C65 C67 C69 C70 C73 C74 C75 C77 C79 C59 C66 C68 C78 C49 C50 C51 C52 C53 C54 C56 C58
10K	0603	18	R45 R4 R3 R2 R1 R16 R17 R23 R26 R44 R46 R47 R54 R18 R19 R20 R25 R39
10MHz	CRYSTAL	1	X2
10uF	3216	2	C89 C90
10uF/16V	3216	20	C33 C34 C42 C31 C32 C43 C44 C45 C46 C84 C35 C36 C37 C38 C39 C40 C41 C86 C80 C83
18R	0603	2	R38 R40
1M	0603	3	R42 R43 R62
1N4004	1N4148	1	D9
1N4148	1N4148	2	D8 D10
200	0603	1	R24
20F001N	DIP16	1	U13
20K	VR5	1	VR1
20MHZ	CRYSTAL	1	Y3
22	0603	15	R31 R32 R34 R55 R56 R57 R59 R60 R61 R33 R27 R58 R30 R29 R28
220uF	7343	2	C92 C91
22pF	0603	8	C87 C88 C22 C28 C20 C21 C29 C30
32.768kHz	CRYSTAL	1	X1
330	0603	9	R96 R5 R6 R7 R22 R48 R49 R50 R8
3V	BT1	1	BT1
4.7K	0603	9	R12 R14 R35 R15 R9 R10 R11 R13 R21
4.7uF	3216	1	C27
6MHZ	CRYSTAL	1	X3
74HC04	SO-14	1	U3
74HC32	SO-14	1	U17
78L05	SOT223	1	U9
820pF	0603	1	C47
CON20	CON20	1	J10
CON40	CON40	4	J1 J2 J3 J4
CONNECTRS232		2	P1 P2
CS4334	SO-8	1	U22
DC JACK POWER		1	OWER
E ICE	JTAG20	1	CN1
HD3	HD3	1	J8
HEADER 2	CON40	1	JP6
HY57V641	TSOP54	1	U7
JUMPER	JUMPER	5	JFM JP1 JP2 JP3 JP4
KS24C080	SO-8	1	U5

LED	LEDTT	7	D1	D2	D3	D5	D6	D7	D11
LED GREI	LEDTT	1	D12						
LM1117-2	SOT223	1	U11						
LM1117-3	SOT223	1	U10						
MAX3232C	SO-16	2	U1	U2					
PDIUSB1	PDIUSB1	1	U15						
PHONEJA	EARHOLE	1	J20						
PLOTX2	RESX2	1	LOT1						
POWERS\	SSW3S	1	SW						
RJ45	RJ-45	1	U14						
RTL8019A	8019	1	U6						
S3C44B0X	QUAD160	1	U4						
SPEAKER	BEEP	1	LS1						
SST39VF1	T SOP48	1	U8						
SW	PUSHKEY	5	S1	S2	S3	S4	S5		
TDA7050	SO-8	1	U18						
UP	CONNUSB	1	J11						