



Title		
89S52 PROJECT BOARD		
Size B	Document Number <Doc>	Rev 1
Date: Tuesday, December 26, 2006	Sheet 1 of 1	

Designed by Wichit Sirichote, kswichit@kmitl.ac.th

1: 89S52 PROJECT BOARD Revised: Tuesday, December 26, 2006
 2: Revision: 1
 3:
 4: Bill Of Materials December 26,2006 10:22:37 Page1
 5:

6: Item	Quantity	Reference	Part
9: 1	1	BT1	NiMH-NiCd
10: 2	2	C1,C2	30pF ceramic
11: 3	1	C3	10uF electrolytic
12: 4	1	C4	22uF 16V electrolytic
13: 5	5	C5,C6,C8,C12,C13	0.1uF multilayer
14: 6	1	C7	100uF 16V electrolytic
15: 7	1	C9	10uF 16V electrolytic
16: 8	1	C10	470uF 25V electrolytic
17: 9	1	C11	0.1 multilayer
18: 10	2	C15,C14	0.1uF multilayer
19: 11	2	D1,D2	1N4148
20: 12	1	D3	1N4007
21: 13	1	JR1	CONN RECT 16
22: 14	1	J1	CON6
23: 15	1	J2	CON16AP
24: 16	1	J3	CON3
25: 17	1	J4	CON4
26: 18	1	J5	DC input
27: 19	1	Q1	11.0592MHz XTAL
28: 20	2	R5,R1	10k
29: 21	3	R2,R3,R4	100
30: 22	5	SW1,SW2,SW3,SW4,SW5	TACT Swicth
31: 23	1	SW6	slide switch
32: 24	4	U1,U4,U6,U8	74HCF4094
33: 25	4	U2,U5,U7,U9	TOS-5161AE 7-segment LED
34: 26	1	U3	AT89S52
35: 27	1	U10	LTC1298/MC3202
36: 28	1	U11	LM2940-5 +5V Voltage regulator