



Title			
Size	A3	Number	Revision
Date	3/30/2013	Sheet of	
File	C:\Users\...\Mach actor v1 SchDoc	Drawn By	

Bill of Materials

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Source Data From: Mach_actor_v1.PrjPcb
 Project: Mach_actor_v1.PrjPcb
 Variant: None

Creation Date: 3/30/2013 10:49:33 AM
 Print Date: 41363 41363.45124

Footprint	Comment	LibRef	Designator	Description	Quantity
PIN_NIMH	PIN 3V	PIN 3V	BT1	Battery 3VDC	1
CP2/4	1000uF/16V	CP4	C1, C2, C3, C4, C12, C13, C14, C15	Cap 1000uF/16V - 220uF/50V	8
SM-0805	104	CM	C5, C6, C7, C9, C10, C11, C16, C17, C18, C19, C20, C21, C22, C23, C24, C25, C26, C27, C28, C29, C30, C31, C32, C33, C34, C35, C36, C37, C38, C39	Cap SMD	30
CP1.5/3.4	1000uF/16V	CP4	C8	Cap 1000uF/16V - 220uF/50V	1
SM-0805	LED5	LED 5mm	D1	LED 5mm	1
LED5MM	LED5	LED 5mm	D2	LED 5mm	1
D5A	1N5822	D5A	D3	Diode 5A	1
1n4148 smd	1N4148	D1A	D4, D5, D6, D7, D8, D9, D10, D11, D12, D13, D14, D15, D16, D17	Diode 1A	14
Fuse	F1A	Fuse	F1	Fuse	1
DIP-8	DS1307	DS1307	IC1	Real Timer Serial	1
SOT223-4N	LM1117	LM1117	IC2, IC3	3v3	2
DIP8/W0.3	MAX485	MAX485	IC4	RS232 - RS485 (Same sn75176)	1
CAP 0402	Jumper 2	JP 2	J1, J2, J3	Jumper 2	3
TOP					
RJ45	RJ45	RJ45	J4	RJ45 Connector, with Leds	1
RELAY	RELAY SPNO	RELAY SPNO	K1, K2, K3, K4, K5, K6	SINGLE Pole Dual-Throw Relay	6
SONGCHUA					
N 834					
Inductorsmd	300mH	L1	L1	Inductor	1
LCD20X4A	LCD 20x4A	LCD20x4A	LCD1	LCD display 20 char, 4 line	1
LED-V	LED	LED	LD1, LD2, LD3, LD4, LD5, LD6	LED Single colour Green and Red	6
SPEAKER	Speaker	Speaker	LS1	Loudspeaker	1
HDR1X4	Header 4	Header 4	P1, P2, P3	Header, 4-Pin	3
SOT23B	C1815	C1815	Q1, Q2, Q3, Q4, Q5, Q6, Q7, Q8	NPN 600mW, ECB	8
SM-0805	2k2	R	R1, R19, R26, R28, R29, R30, R32, R33, R34, R36, R37, R38, R39, R41, R42, R43	Resistor 1/4W	16
SM-0805	4K7	R	R2, R3, R4	Resistor 1/4W	3
SM-0805	10	R	R5, R6, R7, R8, R9, R10, R11, R12, R13, R14, R15, R17	Resistor 1/4W	12
SM-0805	10k	R	R16, R20, R21, R22, R23, R24, R27, R31, R35, R40	Resistor 1/4W	10
SM-0805	1k	R	R18	Resistor 1/4W	1
SM-0805	220	R	R25	Resistor 1/4W	1
SW4B	SW	SW4-1	SW1, SW2, SW3, SW4, SW5	Switch button 4 pin	5
TO263-5	LM2576T-5.0	LM2576T-5.0	U1	SIMPLE SWITCHER; 3A Step-Down Voltage Regulator	1
SSOP-SS28_N	PIC18F26K20-E/SS	PIC18F26K20-E/SS	U2	Flash Microcontroller with 10-Bit A/D and nanoWatt Technology, 64K Flash, 28-Pin SSOP, Extended Temperature Range	1
VIT	1	VIT	VIT1, VIT2, VIT3, VIT4	Oc Vit	4
XTAL32K	32.768KHz	XTAL/32KHz	Y1	Crystal Oscillator	1
XTAL	4MHz	XTAL	Y2	Crystal Oscillator	1
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Approved	Notes