



Title		
Size	Number	Revision
A2		
Date:	2009-7-21	Sheet of
File:	E:\1262-149\SCHDOC	Drawn By:



Comment	Description	Designator	Footprint	Label	Quantity
BV	Multiload Battery	B11	B1AT	Battery	1
0.1u	Capacitor	C1, C2, C4, C5, C7, C8, C9, C10, C15, C16, C17, C18, C21, C27, C38, C39, C41, C42, C43, C44, C45	CR0212-0805	Cap	22
22uF	Capacitor	C3, C6, C19, C26	CR0212-0805	Cap	4
470uF	Capacitor	C11	CR0212-0805	Cap	1
0.01u	Capacitor	C13	CR0212-0805	Cap	1
0.0p	Capacitor	C14	CR0212-0805	Cap	1
C20	Capacitor	C19, C21	CR0212-0805	Cap	2
0.1u	Capacitor	C22, C23, C24, C25, C26	P0212-0805	Cap Term	6
470uF	Polarized Capacitor (Radial)	C27	BM10	Cap Pwr1	1
100uF	Polarized Capacitor (Radial)	C28	BM05	Cap Pwr1	1
4.7u	Polarized Capacitor (Radial)	C29	1210	Cap Pwr1	1
5u	Capacitor	C32, C33, C34, C35, C36	CR0212-0805	Cap	6
10u	Capacitor	C40	CR0212-0805	Cap	1
USB_Header		C21	USB-B	USB_Header	1
Diode 1N4148	High Conductance Fast Diode	D1, D2, D3, D4	3216	Diode 1N4148	4
3.3V	High Conductance Fast Diode	D5, D6	3216	Diode 1N4148	2
BAT54S		DO1, DO2, DO3, DO4, DO5	SO-03	BAT54S	6
LED	Typical BLUE SMD LED	D61	SMD_LED	LED3	1
000031NM	Typical BLUE SMD LED	D62	SMD_LED	LED3	1
MP6403LF149		E1	F-QFP64(MN)49	F14X	1
MP6403LF1232		E2	FW0280uMx1232	F12X	1
RS232	Receptacle Assembly, 9 Position, Right Angle	J1	RS232_male	D Connector 9	1
RS232	Receptacle Assembly, 9 Position, Right Angle	J2	DSUB15-2HS-2HS	D Connector 9	1
P52	6 Pin Through Hole P52 Socket (Nylon PIN)	J3	MP52-6PIN	P52-6PIN	1
430TAG 7X2	Header, 7 Pin, Dual in-line	JP1	MYHCR207	430TAG 7X2	1
Header 3	Header, 3 Pin	JP2	MK02N_3P0M	Header 3	1
Header 3	Header, 3 Pin	JP3, JP10	Header-2.54.3	Header 3	2
Header 2	Header, 2 Pin	JP4	MK02N_2P0M	Header 2	1
Header 5	Header, 5 Pin	JP5, JP6	Header-2.54.5	Header 5	2
Header 5	Header, 5 Pin	JP7	MK02N_5P0M	Header 5	1
Header 4	Header, 4 Pin	JP8	MK02N_4P0M	Header 4	1
Header 7	Header, 7 Pin	JP9	Header-7Pin	Header 7	1
Header 2	Header, 2 Pin	JP11	FCRT42	Header 2	1
CR0201208U/1616	Inductor	L1, L2	1210	Inductor	2
IP3	Inductor	L3	CR0205-1210	Inductor	1
1284M		L101	MYHCR11020	1284M	1
LED	LED1, LED2, LED3, LED4, LED5, LED6	W4Y11		LED_OC	6
Speaker	Loudspeaker	L31	PMK	Speaker	1
0805		G1	NPN	0805	1
RES PACK 4	Resistor Array Parts	R1, R2	SOFP	RES PACK 4	2
10K	Resistor	R2, R4, R5, R6, R16, R17, R25, R26, R27, R28	CR0212-0805	Res2	10
OK	Resistor	R7, R8, R9, R10, R11, R12, R13	CR0212-0805	Res2	7
15	Resistor	R14	CR0212-0805	Res2	1
1M	Resistor	R15, R21, R22, R23	CR0212-0805	Res2	4
10R 1%	Resistor	R18, R20	CR0212-0805	Res2	2
1K	Resistor	R19, R24	CR0212-0805	Res2	2
4.7K	Resistor	R28	CR0212-0805	RES2	1
0.1M	Resistor	R30, R34	CR0216-1206	RES2	2
OK	Resistor	R31, R32	CR0212-0805	Res2	2
Res Tap	Tapped Resistor	R33	SVAR	Res Tap	1
50K	Resistor	R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48	CR0212-0805	RES2	14
51	Resistor	R49, R50, R51, R52, R53	CR0212-0805	RES2	5
100	Resistor	R54, R55, R56, R57, R58	CR0212-0805	RES2	6
120	Resistor	R59	CR0212-0805	RES2	1
MS1	Switch	SW01	SO-SW1	SW-PB	1
SW-B08	DIP Switch	S1	SW-DIP8	SW-DIP-4	1
SW-BD16	DIP Switch	S2	SW-D16	SW-DIP-8	1
7	Switch	S3	KEY	SW-PB	1
BLP	Switch	S4	KEY	SW-PB	1
9	Switch	S5	KEY	SW-PB	1
4LEFT	Switch	S6	KEY	SW-PB	1
0FUNC	Switch	S7	KEY	SW-PB	1
WRIGHT	Switch	S8	KEY	SW-PB	1
1	Switch	S9	KEY	SW-PB	1
0DOWN	Switch	S10	KEY	SW-PB	1
3	Switch	S11	KEY	SW-PB	1
0RIGHT	Switch	S12	KEY	SW-PB	1
ESC	Switch	S13	KEY	SW-PB	1
ENTER	Switch	S14	KEY	SW-PB	1
SW-PB	Switch	S16	SW-DIP2	SW-PB	1
14HC154		U1, U2	0214	14HC154	2
DAC75P1		U3, U4	IC0723-6	DAC75P1	2
04LC01		U5	D008	04LC01	1
MAX3232CSE	±10V Powered, Multi-Channel RS-232 Driver/Receiver	U6	SO-018	MAX3232CSE	1
REG1117-3.3	3.3V and 5A Low Dropout Positive Regulator	U7	ZZ311	REG1117-3.3	1
POU5B012	5V, 5V, and Adjustable	U8	TSSOP-28	POU5B012	1
DS1307	34 X 8 Serial Real-Time Clock	U9	SOIC8N	DS1307Z	1
DS2433		U10	SOIC8W	DS2433	1
TL0724AD	±10V Precision Quad Operational Amplifier	U11, U12	MA014	TL0724AD	2
MAX485ESA	Low Power, Stand-By Rate Limited RS-485 4-22 Transceiver	U13	NS08	MAX485ESA	1
DS2890	1-Wire Digital Powerline 15-pin 2-Wire	U14	TSSOP	DS2890	1
MAX1189	2-Wire Serial ADC in 4.14-Pin TSSOP	U15	TSSOP14	MAX1189	1
74LV04D46		U16	My_8SO-024C08.8	74LV04D46	1
32.768K	Crystal Oscillator	Y1, Y4	RCY-W203.1	XTAL	2
BM	Crystal Oscillator	Y2	CRYTAL12	XTAL	1
BM	Crystal Oscillator	Y3	CRYTAL2	XTAL	1