

BoM, for kit building assembly

ref	value	Position X	Position Y	Orientation	Layer	Vendor	Vendor P/N	NOTE 2	QTY
BT1	BATT_RTC	2.6625	1.5350	180	Back	DigiKey	BHX1-1632-SM-ND	SMD Battery socket for CR1632	1
*	CR1632	--	--	--	--	DigiKey	P036-ND	Battery, CR1632	1
C1	100n	1.7825	1.6525	270	Front	DigiKey	490-1734-1-ND	Decoupling Capacitor	1
C2	1u	2.5050	1.4000	270	Front	DigiKey	445-1589-1-ND	Non-electrolytic (Ceramic)	1
C3	2u2	3.0675	1.0975	0	Front	DigiKey	493-2331-1-ND	Tantalum, Polarized, 10V	1
C4	100n	2.9025	1.0975	180	Front	DigiKey	490-1734-1-ND	Decoupling Capacitor	1
C5	1u	2.6450	1.3700	180	Front	DigiKey	445-1589-1-ND	Non-electrolytic (Ceramic)	1
C6	47u	2.8925	1.5400	90	Front	DigiKey	PCE3875CT-ND	Electrolytic, SMD	1
C7	100n	2.6400	1.6750	0	Front	DigiKey	490-1734-1-ND	Decoupling Capacitor	1
C8	100n	2.9100	1.3675	0	Front	DigiKey	490-1734-1-ND	Decoupling Capacitor	1
C9	100n	1.5575	1.3200	0	Back	DigiKey	490-1734-1-ND	Decoupling Capacitor	1
C10	22p	2.3775	1.1350	270	Front	DigiKey	709-1172-1-ND		1
C11	22p	2.2725	1.1350	90	Front	DigiKey	709-1172-1-ND		1
D1	LED	2.5375	1.0975	0	Front	DigiKey	475-2730-1-ND	LED, Green, 2mA current	1
D2	LED	2.7000	1.0975	0	Front	DigiKey	475-2730-1-ND	LED, Green, 2mA current	1
D3	RB886GT2R	3.3020	1.3500	270	Front	DigiKey	RB886GT2RCT-ND	Schottky Diode, Vf=0.35V	1
D4	RB886GT2R	3.2360	1.3500	270	Front	DigiKey	RB886GT2RCT-ND	Schottky Diode, Vf=0.35V	1
IC1	ATMEGA8-AI	2.2525	1.6350	270	Front	DigiKey	ATMEGA328-AU-ND	Micro-controller	1
P3	BootDrive	3.3900	1.9000	90	Front	DigiKey	475-2555-1-ND	Header for BootDrive	1
P4	CONN_6	2.2825	2.1100	0	Front	DigiKey	475-2555-1-ND	Buckler Interface	1
P5	CONN_6	2.9825	2.1100	0	Front	DigiKey	475-2555-1-ND	Buckler Interface	1
P6	CONN_2	3.1125	1.2600	270	Front	DigiKey	475-2555-1-ND	Ext. 9V Battery	1
P7	GPS_UP501	3.3900	1.3000	270	Front	DigiKey	475-2555-1-ND	GPS Header	1
P8	FTDI	3.2325	1.7100	90	Front	DigiKey	475-2555-1-ND	FTDI <>USB Interface	1
P9	ISP	1.8675	1.1800	0	Front	DigiKey	609-3456-ND	ISP Programming Interface	1
P10	CD2	1.5950	1.1500	0	Back	DigiKey	S5635-ND	ChronoDot/rtcBoB connections	1
P11	CD2	1.1450	1.6000	90	Back	DigiKey	S5635-ND	either P10+P12 or P11+P13	1
P12	CD1	1.5950	2.0500	0	Back	DigiKey	S5635-ND		1

B14	I/O	break out pads	1
B15	I/O	break out pads	1
B16	I/O	break out pads	1
B17	I/O	break out pads	1
B18	I/O	break out pads	1
B19	I/O	break out pads	1
P1	I/O	break out pads	1
SC1	SCREW	Mounting Hole	1

MISC. COMPONENTS

SD_CARD	2041021-3	Tyco-TE Connectivity	http://www.te.com/catalog/bin/TE.Connect?C=1&M=BYPN&TCPN=2041021-3
35R2925	Newark element 14 online		http://www.newark.com/te-connectivity/2041021-3/memory-card-connector-s
A101492CT-ND	Digikey		http://search.digikey.com/scripts/DkSearch/dksus.dll?Detail&name=A101492C