

BoM, for kit building assembly

ref	value	Vendor	Vendor P/N	NOTE1	NOTE 2	MODULE	QTY
BT1	BATT_RTC	DigiKey	BHX1-1632-SM-ND		SMD Battery socket for CR1632	CR1632	1
*	CR1632	DigiKey	P036-ND		Battery, CR1632	--	1
C1	100n	DigiKey	490-1734-1-ND		Decoupling Capacitor	c_0805	1
C2	1u	DigiKey	445-1589-1-ND		Non-electrolytic (Ceramic)	c_0805	1
C3	2u2	DigiKey	493-2331-1-ND		Tantalum, Polarized, 10V	Tant	1
C4	100n	DigiKey	490-1734-1-ND		Decoupling Capacitor	c_0805	1
C5	1u	DigiKey	445-1589-1-ND		Non-electrolytic (Ceramic)	c_0805	1
C6	47u	DigiKey	PCE3875CT-ND		Electrolytic, SMD	10V	1
C7	100n	DigiKey	490-1734-1-ND		Decoupling Capacitor	c_0805	1
C8	100n	DigiKey	490-1734-1-ND		Decoupling Capacitor	c_0805	1
C9	100n	DigiKey	490-1734-1-ND		Decoupling Capacitor	c_0805	1
C10	22p	DigiKey	709-1172-1-ND			c_0805	1
C11	22p	DigiKey	709-1172-1-ND			c_0805	1
D1	LED	DigiKey	475-2730-1-ND		LED, Green, 2mA current	d_0805	1
D2	LED	DigiKey	475-2730-1-ND		LED, Green, 2mA current	d_0805	1
D3	RB886GT2R	DigiKey	RB886GT2RCT-ND		Schottky Diode, Vf=0.35V	d_VMD2	1
D4	RB886GT2R	DigiKey	RB886GT2RCT-ND		Schottky Diode, Vf=0.35V	d_VMD2	1
IC1	ATMEGA8-AI	DigiKey	ATMEGA328-AU-ND		Micro-controller	TQFP32	1
P3	BootDrive	DigiKey	475-2555-1-ND		Header for BootDrive	PIN_ARRAY-6X1	1
P4	CONN_6	DigiKey	475-2555-1-ND		Buckler Interface	PIN_ARRAY-6X1	1
P5	CONN_6	DigiKey	475-2555-1-ND		Buckler Interface	PIN_ARRAY-6X1	1
P6	CONN_2	DigiKey	475-2555-1-ND		Ext. 9V Battery	pin_strip_2	1
P7	GPS_UP501	DigiKey	475-2555-1-ND		GPS Header	PIN_ARRAY-6X1	1
P8	FTDI	DigiKey	475-2555-1-ND		FTDI <=>USB Interface	PIN_ARRAY-6X1	1
P9	ISP	DigiKey	609-3456-ND		ISP Programming Interface	ISP	1
P10	CD2	DigiKey	S5635-ND		ChronoDot/rtcBoB connections	Sck-04-F-SMT	1
P11	CD2	DigiKey	S5635-ND		either P10+P12 or P11+P13	Sck-04-F-SMT	1
P12	CD1	DigiKey	S5635-ND			Sck-04-F-SMT	1

P13	CD1	DigiKey	S5635-ND		Sck-04-F-SMT	1
PCB1	PCB	seeed	PCB, 2.5" x 1.2"	PCB		1
R1	10k	DigiKey	RR12P10.0KDCT-ND		r_0805	1
R2	10k	DigiKey	RR12P10.0KDCT-ND		r_0805	1
R3	10k	DigiKey	RR12P10.0KDCT-ND		r_0805	1
R4	10k	DigiKey	RR12P10.0KDCT-ND		r_0805	1
R5	470E	DigiKey	RR12P1.5KDCT-ND	Use 1.5k instead of 470 Ohm	r_0805	1
R6	10k	DigiKey	RR12P10.0KDCT-ND		r_0805	1
R7	10k	DigiKey	RR12P10.0KDCT-ND		r_0805	1
R8	470E	DigiKey	RR12P1.5KDCT-ND	Use 1.5k instead of 470 Ohm	r_0805	1
R9	10k	DigiKey	RR12P10.0KDCT-ND		r_0805	1
SD1	SD_CARD_MICRO	DigiKey	101-00434-68-1-ND	CONN SIM+MICRO-SD 14PIN PCB GOLD	SD_Micro	1
SW1	SW_PUSH	DigiKey	P12301SCT-ND	Reset Switch	SW_SMD	1
U1	MCP1700T-3302E/TT	DigiKey	MCP1700T3302ETTCT-ND	3.3V Regulator	SOT23-3	1
U2	74HC125	DigiKey	MC74HC125ADGOS-ND	Alternative P/N – 296-1192-1-ND	SO14E	1
U3	MIC5219-5.0BM5	DigiKey	576-2770-1-ND	5.0V Regulator	SOT23-5	1
U4	DS3231N	DigiKey	DS3231S#-ND	RTC	DS3231	1
X1	CRYSTAL_2	DigiKey	478-6622-1-ND	16MHz Crystal, SMD	Xtal_SMD2	1

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NOT USED COMPONENTS

B1	I/O		break out pads	I/O	1
B2	I/O		break out pads	I/O	1
B3	I/O		break out pads	I/O	1
B4	I/O		break out pads	I/O	1
B5	I/O		break out pads	I/O	1
B6	I/O		break out pads	I/O	1
B7	I/O		break out pads	I/O	1
B8	I/O		break out pads	I/O	1
B9	I/O		break out pads	I/O	1
B10	I/O		break out pads	I/O_ADR	1
B11	I/O		break out pads	I/O_ADR	1
B12	I/O		break out pads	I/O	1
B13	I/O		break out pads	I/O	1

B14	I/O	break out pads	I/O	1
B15	I/O	break out pads	I/O	1
B16	I/O	break out pads	I/O_ADR	1
B17	I/O	break out pads	I/O_ADR	1
B18	I/O	break out pads	I/O	1
B19	I/O	break out pads	I/O	1
P1	I/O	break out pads	I/O	1
SC1	SCREW	Mounting Hole	vite_3mm	1

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MISC. COMPONENTS

SD_CARD	http://www.te.com/catalog/bin/TE.Connect?C=1&M=BYPN&TCPN=2041021-3&RQPN=2041021-3
35R2925	http://www.newark.com/te-connectivity/2041021-3/memory-card-connector-sd-9pos/dp/35R2925?CMP=AFC-1
A101492CT-ND	http://search.digikey.com/scripts/DkSearch/dksus.dll?Detail&name=A101492CT-ND

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GRAND TOTAL