

Bill of Materials			Battery Oprated node		
Source Data From:			Battery_Operated Node.PrjPcb		
Project:			Battery_Operated Node.PrjPcb		
Variant:			None		
Creation Date:			4/20/2015 10:31:41 PM		
Print Date:			42116 42116.01687		
Footprint	Comment	LibRef	Designator	Description	Quantity
44ML_N	ATmega32U4-AU	ATmega32U4-AU	32U4	8-bit AVR Microcontroller, 44-pin TQFP, Industrial Grade (-40°C to 85°C)	1
0603-CAP	.1uF	CAP0603-CAP	C2, C3, C4	ceramic capacitor	3
SMD_CAP_0805	100nF	Cap-Bipolar	Caref, Cnrf1, Cq	ceramic capacitor	3
SMD_CAP_0805	10nF	Cap-Bipolar	Creset	ceramic capacitor	1
0603-CAP	1uF	CAP0603-CAP	C5	ceramic capacitor	1
SMD_CAP_0805	4.7nF	Cap-Bipolar	Cr1	ceramic capacitor	1
0603-CAP	4.7uF	CAP0603-CAP	C6	ceramic capacitor	1
1206	4.7uF	CAP1206	C7, C8	ceramic capacitor	2
SMD_CAP_1206	4.7uF	Cap-Bipolar	C_Idx1, C_Idx2	ceramic capacitor	2
HDR2X3	Header 3X2	Header 3X2	PROG	Header, 3-Pin, Dual row	1
HDR2X4	Header 4X2	Header 4X2	NRF2	Header, 4-Pin, Dual row	1
HDR2X5	Header 5X2	Header 5X2	UEXT	Header, 5-Pin, Dual row	1
Micro3_N	IRLML6401	IRLML6401	Qir	HEXFET Power MOSFET	1
LL4148	1N4148	Diode 1N4148	Dr	High Conductance Fast Diode	1
INDC3216	22uH /10% /5mA	Inductor	Lm1	Inductor	1
LED SMD 1206	Green	LED	LED3	LED	1
LED SMD 1206	Orange	LED	LED2	LED	1
LED SMD 1206	Red	LED	LED1	LED	1
MCP1640	mcp1640	mcp1640	M	MCP1640DT-I/CHY , 0.65V, Sync Reg., 6LD SOT-23 pkg	1
mic94060	MIC94060	MIC94060	MIC1, MIC2, MIC3, MIC4, MIC5, MIC6	MIC94060YC6, SC-70-6	6
SOT23-5	MCP73831	MCP73831	U1	Miniature single cell, fully integrated Li-Ion, Li-polymer charge management controller  <a href="http://ww1.microchip.com">http://ww1.microchip.com</a>	1
USB-AB-MICRO-SMD_V03	USB AB Connector(micro usb)	USB-ABCONN-11794	U5	part num:1125S-SMT-4P	1
4P-SMD-2.0	TWIG-4P-2.0-SMD	TWIG-4P-2.0-SMD-FEMALE-REINFORCE'DD'	A, D, I2C	part num:1125S-SMT-4P URL: <a href="http://oom.lt/J204S">http://oom.lt/J204S</a>	3
SWITCH-SPDT-SMD		SWITCH-SPDTSMD2	S1	part num:AYZ0102AGRLC or JS102011SAQN	1
CAPP 1206 (3216X18L) Size A	4.7uF	Cap-Polar	Cnrf2	Polar Capacitor	1
PANASONIC_D	100uF	CAP_POLD	C_BAT, C_usb	Polar Capacitor 10V	2
RES 0805 (2012X06L)	10k	Resistor	R2	Resistor	1
RES 0805 (2012X06L)	1M	Resistor	Rm12	Resistor	1
RES 0805 (2012X06L)	22	Resistor	R4, R5	Resistor	2
RES 0805 (2012X06L)	330	Resistor	R1, R6, R7, Rst1	Resistor	4
RES 0805 (2012X06L)	4.7k	Resistor	R3, Rmic6	Resistor	2
RES 0805 (2012X06L)	470K	Resistor	Rm13	Resistor	1
RES 0805 (2012X06L)	562	Resistor	RR2	Resistor	1
RES 0805 (2012X06L)	976	Resistor	RR1	Resistor	1
RESONATOR-SMD	16MHZ	RESONATOR8MHZ	Y1	Resonator ,Small SMD resonator,Used, eg, on the Arduino Pro/ Pro Mini boards. 16MHz- XTAL-08895	1
SMA-DIODE	B340A	DIODE-SCHOTTKY-B340A	D1	Schottky diodes in SFE's production catalog	1
INDC4532	Inductor	Inductor	Lreg	SD3114 4.7 uH	1
JST-2-SMD	JST-2	M02-JST-2MM-SMT	JP1	JST Right Angle Connector link: <a href="https://www.sparkfun.com/products/8612">https://www.sparkfun.com/products/8612</a>	1
TACTILE_SWITCH_SMD	!RESET	SWITCH-MOMENTARY-2SMD	S2	Various NO switches- part num:TS-1518S	1
Approved					58
Notes					