

Bill of Materials

Battery Oprated node

Source Data From: Battery_Operated Node.PrjPcb
Project: Battery_Operated Node.PrjPcb
Variant: None

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Footprint	Comment	LibRef	Designator	Description	Quantity
44ML_N		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_ido1, C_ido2	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	Inductor	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 http://ww1.microchip.com/downloads/en/DeviceDoc/21984a.pdf IC-09995	1
USB-AB-MICRO-S	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: http://oom.lt/J204S	3
SWITCH-SPDT-SM		SWITCH-SPDTSMD2	S1	part num:AYZ0102AGRLC or JS102011SAQN	1
CAPP 1206 (3216X	4.7uF	Cap-Polar	Cnrf2	Polar Capacitor	1
PANASONIC_D	100uF	CAP_POLD	C_BAT, C_usb	Polar Capacitor 10V	2
RES 0805 (2012X0	10k	Resistor	R2	Resistor	1
RES 0805 (2012X0	1M	Resistor	Rm12	Resistor	1
RES 0805 (2012X0	22	Resistor	R4, R5	Resistor	2
RES 0805 (2012X0	330	Resistor	R1, R6, R7, Rst1	Resistor	4
RES 0805 (2012X0	4.7k	Resistor	R3, Rmic6	Resistor	2
RES 0805 (2012X0	470K	Resistor	Rm13	Resistor	1
RES 0805 (2012X0	562	Resistor	RR2	Resistor	1
RES 0805 (2012X0	976	Resistor	RR1	Resistor	1
RESONATOR-SMC	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<p>BAT20J 1A 23V 0.62Vf RB751 120mA 40V 0.37Vf PMEG4005EJ 0.5A 40V 0.42Vf MBRA140 1A 40V 0.5Vf B340A 3A 40V SMA 	1
INDC4532	Inductor	Inductor	Lreg	SD3114 4.7 uH	1
JST-2-SMD	JST-2	M02-JST-2MM-SMT	JP1	Standard 2-pin 0.1" header. Use with - straight break away headers (PRT-00116) - right angle break away headers (PRT-00553) - swiss pins (PRT-00743) - machine pins (PRT-00117) - f	1
TACTILE_SWITCH	IRESET	SWITCH-MOMENTARY-2SMD	S2	Various NO switches- part num:TS-1518S	1

Approved	Notes