

## PIU REV 2 POWER OPTION 2 BOM

Description	Designator	Footprint	LibRef	Quantity	Value	Notes
Header, 2-Pin	Batt	HDR1X2	Header 2	1		
Capacitor (Semiconductor SIM Model)	C5, C8, C9, C10, C11, C1	1608[0603]	Cap Semi	6	22pF	
Capacitor (Semiconductor SIM Model)	C6, C7	1608[0603]	Cap Semi	2	100nF	
Polarized Capacitor (Surface Mount)	C21	C0805	Cap Pol3	1	4.7uF	
Polarized Capacitor (Surface Mount)	C22	C0805	Cap Pol3	1	0.1uF	
Polarized Capacitor (Surface Mount)	C23, C25	C0805	Cap Pol3	2	10uF	
Polarized Capacitor (Surface Mount)	C24	C0805	Cap Pol3	1	1.3nF	Note: Alt sub if used with sub resistors is 4.7nF
Polarized Capacitor (Surface Mount)	C26	C0805	Cap Pol3	1	1uF	
Capacitor (Semiconductor SIM Model)	C31, C32, C33, C34	1608[0603]	Cap Semi	4	0.1uF	
Capacitor (Semiconductor SIM Model)	C36	1608[0603]	Cap Semi	1	100pF	
Typical RED GaAs LED	D2	C0805	LED1	1		
Blue LED	D21	J1-0603	LED2	1		
Header, 6-Pin	Daughter, Exp, SD	HDR1X6	Header 6	3		
Header, 7-Pin	IR	HDR1X7	Header 7	1		
USB On-The-Go (OTG) Mini-B Receptacle	J1	481900001	0481900001	1		
Inductor	L21	2v2uF_inductor	Inductor	1	2.2uH	
Inductor	L23	3v3uH inductor	Inductor	1	3.3uH	
Header, 2-Pin	P2	HDR1X2	Header 2	1		
Header, 3-Pin, Dual row	P3	HDR2X3	Header 3X2	1		
Resistor	R6, R26	J1-0603	Res3	2	1K	
Resistor	R7, R8	J1-0603	Res3	2	10k	
Resistor	R11, R12	J1-0603	Res3	2	4.7k	
Resistor	R22	J1-0603	Res3	1	3.01K	
Resistor	R23	J1-0603	Res3	1	2k	
Resistor	R24	J1-0603	Res3	1	324K	NOTE: Alt sub is 91k
Resistor	R25	J1-0603	Res3	1	105K	NOTE: Alt sub is 30k
8-bit AVR Microcontroller, 4.5-5.5V, 16MHz	U4	100A_N	ATmega2560-16AU	1		
USB to Basic UART Interface Chip, UHCI/	U5	SSOP-16_N	FT230XS-R	1		
	U6	MOD BLUETOOTH BM7	MODULE BM77	1		
High Efficiency USB Power Manager Plus	U21	LT-UF-24_N	LTC3566EUF#PBF	1		
Header, 10-Pin, Dual row	XB	XBEE_PRO	Header 10X2A	1		
	Y1	ABM3B-12.000MHZ-B2	ABM3B-12.000MHZ-B2	1		

Created	Date	Current Revision
Jacob Dixon	11/15/2015	V2

Version Change Log	Date	Comment
V1	11/10/2015	BOM Init
V2	11/15/2015	Updated C24 to correct capacitor value. Added in alt voltage divider values.
V3	11/15/2015	Changed D21 to Blue LED