

Quantity	Value	Type	Package	Part Numbers	Source	Source Part #	Comments
1	0.025 ohm 1%	Kelvin resistor		R4	Digikey	FC4L64R025FERCT-ND	Ohmite FC4L64R025FER
4	3.3K 5% 1/10W	Resistor	0603	R1, R2, R3, R8	Digikey	311-3.3KGRCT-ND	Can merge part number with the 3.3K 1% above.
3	10k 5% 1/10W	Resistor	0603	R5, R6, R7	Digikey	311-10KGRCT-ND	Generic part
2	20pF 50V 5%	Ceramic capacitor	0603	C9, C10	Digikey	311-1424-1-ND	Generic part
4	0.1uF 10% 25V	Ceramic capacitor	0603	C3, C5, C6, C7, C8	Digikey	311-1344-1-ND	Generic part. May need to reduce C7 if interferes with ICSP reset (e.g. to 0.01)
1	1uF 16V 5%	Ceramic capacitor	6030	C1	Digikey	445-1604-1-ND	Generic part
2	10uF 10% 16V	Tantalum Capacitor	1206	C2, C4	Digikey	399-3684-1-ND	Generic part
1	Heltec 1.3" SPI 128X64 OLED WHITE monochrome display with RST pin.	OLED		OLED	Heltec or eBay.	http://www.heltec.diytrade.co or http://r.ebay.com/bVQ2CY	Must have SSD1306 controller and these 6 pins: GND, VCC, SCL, SDA, RST, D/C (picture here http://i.imgur.com/y3cWazS.jpg). Manufacturer is http://www.heltec.cn . Heltec also similar blue models (with sh1063 controller) and 'new' models with different 6 pins (VCC and GND swapped, no RST pin), these two models are incompatible with the current POWER PLAY design.
1	16Mhz	Crystal		Q1	Digikey	CTX732CT-ND	CTS 403 Series, 20pF.
1	ATMEGA328P	IC	TQFP32	U3	Digikey	ATMEGA328P-AURCT-ND	Atmel AVR328P
1	FT232RL	IC	SSOP28	U2	Digikey	768-1007-1-ND	
1	LTC2943	IC	DFN8	U1	Digikey	LTC2943CDD#PBF-ND	
1	Push button	Button		S1	Digikey	P12197S-ND	Panasonic EVQ-PAG09K
2	1 position, 0.1", straight	Header		OLED mechanical support.	Digikey	S1011E-36-ND	Generic part. Height above board should be at most 8.5mm. The part number here is for a 36 position breakable strip so it can be used for multiple boards.
2	Micro USB 'reversed' connector	Connector		J1,J2	Digikey	H11611CT-ND	Hirose ZX62RD-AB-5P8. Make sure it is a 'reversed' connector, otherwise the signals will be in reversed order.
1	USB A connector	Connector		J3	Digikey	WM7087TR-ND	Molex 48258-0002
1	PCB	Custom PCB			Generic	Generic	Order the PCB from your favorite PCB manufacturer (2 layers, 60x60mm). Make sure to order a SMD stencil, preferably 5mil stainless steel but even a 5 mil stencil from oshstencils.com should work.
1	Top cover	Custom hardware			Ponoko	Custom	Laser cut fluorescent green 1/8" acrylic.
1	Bottom Cover	Custom hardware			Ponoko	Custom	Laser cut fluorescent green 1/8" acrylic.
4	M3x6mm, pan head, philips machine screw	Hardware			Digikey	335-1156-ND	Top cover screws
4	M3x10mm, pan head, philips machine screw	Hardware			Digikey	335-1148-ND	Bottom cover screws
4	M3x6mm, round, threaded, female/female metal standoff	Hardware			Digikey	952-1515-ND	Top cover standoff
4	M3x3mm,round, non threaded nylon or metal spacer	Hardware			Digikey	952-1526-ND	Bottom cover spacer