

## Materials List

Designator	Item	Qty	Seller
U1	Single Cell Charger <a href="http://www.digikey.com/short/34w0t7">http://www.digikey.com/short/34w0t7</a>	1	Digikey
U2	Accelerometer <a href="http://www.digikey.com/short/34w0q3">http://www.digikey.com/short/34w0q3</a>	1	Digikey
U3	Bluetooth Audio Module <a href="http://www.digikey.com/short/34w08m">http://www.digikey.com/short/34w08m</a>	1	Digikey
U4	Op-Amp <a href="http://www.digikey.com/short/34w11t">http://www.digikey.com/short/34w11t</a>	1	Digikey
U5	Analog Mux <a href="http://www.digikey.com/short/34w11h">http://www.digikey.com/short/34w11h</a>	1	Digikey
R1, R2	4.7KOhm Resistor <a href="http://www.digikey.com/short/340b02">http://www.digikey.com/short/340b02</a>	2	Digikey
R3, R4, R7	100KOhm Resistor <a href="http://www.digikey.com/short/340bv1">http://www.digikey.com/short/340bv1</a>	3	Digikey
R5	6.8KOhm Resistor <a href="http://www.digikey.com/short/3mqd0m">http://www.digikey.com/short/3mqd0m</a>	1	Digikey
R8, R12, R16	200Ohm Resistor <a href="http://www.digikey.com/short/3405c8">http://www.digikey.com/short/3405c8</a>	3	Digikey
R9	56KOhm Resistor <a href="http://www.digikey.com/short/3405c5">http://www.digikey.com/short/3405c5</a>	1	Digikey
R10	2.2KOhm Resistor <a href="http://www.digikey.com/short/340b1p">http://www.digikey.com/short/340b1p</a>	1	Digikey
R11	12KOhm Resistor <a href="http://www.digikey.com/short/34057t">http://www.digikey.com/short/34057t</a>	1	Digikey
R6	Wire	1	Anywhere

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R13	Character Selection Resistor	1	
C1, C2	4.7uF Capacitor <a href="http://www.digikey.com/short/3405tc">http://www.digikey.com/short/3405tc</a>	2	Digikey
C3	1uF Capacitor <a href="http://www.digikey.com/short/3405t8">http://www.digikey.com/short/3405t8</a>	1	Digikey
C4, C5, C6, C7	0.1uF Capacitor <a href="http://www.digikey.com/short/3405t5">http://www.digikey.com/short/3405t5</a>	4	Digikey
C8	0.01uF Capacitor <a href="http://www.digikey.com/short/3405q3">http://www.digikey.com/short/3405q3</a>	1	Digikey
D1, D2, D3	Red LED <a href="http://www.digikey.com/short/34w03c">http://www.digikey.com/short/34w03c</a>	3	Digikey
SW2	Switch <a href="http://www.digikey.com/short/34w07h">http://www.digikey.com/short/34w07h</a>	1	Digikey
J1	Audio Jack <a href="http://www.digikey.com/short/34wdnv">http://www.digikey.com/short/34wdnv</a>	1	Digikey
J2A, J2B, J3A, J3B	Pin Header <a href="http://www.digikey.com/short/34wddd">http://www.digikey.com/short/34wddd</a>	4	Digikey
BRD1	Adafruit Pro Trinket <a href="https://www.adafruit.com/products/2010">https://www.adafruit.com/products/2010</a>	1	Adafruit
BRD2	DFPlayer Mini <a href="http://www.dfrobot.com/index.php?route=product/product&amp;product_id=1121&amp;search=dfplayer&amp;description=true#.V45pULgrJhE">http://www.dfrobot.com/index.php?route=product/product&amp;product_id=1121&amp;search=dfplayer&amp;description=true#.V45pULgrJhE</a>	1	DFRobot
Batt	Li-ion Battery <a href="http://www.all-battery.com/tenergypolymerli-ionbattery_3.7v_300mah_602030-30656.aspx">http://www.all-battery.com/tenergypolymerli-ionbattery_3.7v_300mah_602030-30656.aspx</a>	1	All Battery