

Materials List

THE SWITCH

Item	Qty	Seller	Part Number
Particle Core https://store.particle.io/?product=particle-core	1	Particle.io	N/A
Momentary Arcade Button *	1	N/A	N/A
5mm IR LED 940nm http://www.adafruit.com/products/387	1	Adafruit	387
LED (Optional for indicator) http://www.digikey.com/product-detail/en/WP710A105EC%2FJ3/754-1589-ND/2769815	4	Digikey	754-1589-ND
LED (Optional for Logo) http://www.digikey.com/product-detail/en/WP710A105EC%2FJ3/754-1589-ND/2769815	30+**	Digikey	754-1589-ND
LED (Optional for indicator) http://www.digikey.com/product-detail/en/LTW-420D7/160-1782-ND/1835514	1	Digikey	160-1782-ND
TIP120 Transistor http://www.adafruit.com/product/976	2	Adafruit	976
Resistor 2W 10HM (Optional for Logo) http://www.digikey.com/product-detail/en/RSMF2JT1R00CT-ND/2021849	1	Digikey	RSMF2JT1R00CT-ND
3.7v 1000mAh LiPo Battery https://www.sparkfun.com/products/339	1	Sparkfun	339
LiPo Battery Charger https://www.sparkfun.com/products/10217	1	Sparkfun	10217
SPDT On/Off Switch http://www.digikey.com/product-detail/en/EG1201A/EG1902-ND/101723	1	Digikey	EG1902-ND
330 OHM Resistors (Optional) https://www.sparkfun.com/products/11507	5	Sparkfun	11507
4.7K OHM Resistors http://www.digikey.com/product-detail/en/CF14JT4K70TR-ND/1741428	2	Digikey	CF14JT4K70TR-ND
Spool of Wire	N/A	N/A	N/A

* We made a custom aluminum button, but any momentary arcade button should work. Adjust your enclosure as needed.

**We used 30+ LEDs to get through Wood Veneer and fill in the logo. Use as many as you need, but adjust resistors accordingly. Please note, we tied to vout since the current draw is high with so many LEDs, this will go up to 4.2v.