**Teensy Boards:** <https://www.pjrc.com/teensy/index.html>

**Note:** Can solder board directly onto PCB if we want to do that

**Schematic Diagram:** <https://www.pjrc.com/teensy/schematic.html>

**Using Teensy Loader:** <https://www.pjrc.com/teensy/loader_win10.html>

**Board We’re Using:** <https://www.sparkfun.com/products/14057>

**uC:** MK66FX1M0VMD18

* Current Limit Per Pin: 25mA
* Digital Logic Voltage Level: 3v3 – 3v8
* Digital Supply Current: 300mA
* 180 MHz ARM Cortex-M4 with Floating Point Unit
* 1M Flash, 256K RAM, 4K EEPROM
* USB High Speed (480Mbit/sec) Port
* 2 CAN Bus Ports
* 32 General Purpose DMA Channels (direct memory access)
* 22 PWM Outputs
* 4 I2C Ports
* 11 Touch-Sensing Inputs
* 62 I/O Pins (42 breadboard friendly)
* 25 Analog Inputs to 2 ADCs with 13-bit resolution
* 2 Analog Outputs (DACs) with 12-bit resolution
* USB Full Speed (12Mbit/sec) Port
* Ethernet mac, capable of full 100Mbit/sec speed
* Native (4-bit SDIO) micro SD card port
* I2S Audio Port, 4-Channel Digital Audio Input & Output
* 14 Hardware Timers
* Cryptographic Acceleration Unit
* Random Number Generator
* CRC Computation Unit
* 6 Serial Ports (2 with FIFO and Fast Baud Rates)
* 3 SPI Ports (1 with FIFO)
* Real-Time Clock
* 62.3mm x 18.0mm x 4.2mm (2.5in x 0.7in x 0.2in)

**Button Pad Tutorial:** <https://learn.sparkfun.com/tutorials/button-pad-hookup-guide>

**Questions:**

Are there enough GPIO pins on the Teensy 3.6 to use the Button Pad?

Current Limit for the pins?

**PCB Components:**

PCB Battery Holders can be found online: <https://www.digikey.com/products/en?PPV=1811|4|2746326>