**Power:**

12v rail linearly regulated down to 5v and 3v3.

12v to 5v <https://www.digikey.com/product-detail/en/microchip-technology/MIC5219-5.0YM5-TR/576-2770-1-ND/1821930>

5v to 3v3

**Current sensor 12v:**

AIMH021-100A-5VT (<https://aimdynamics.com/product/AIMH021-100A-5VT/>)’

**Temperature Sensor 3v3:**

BME280(<https://www.digikey.com/product-detail/en/bosch-sensortec/BME280/828-1063-1-ND/6136314>)

Switch Circuit is from page 40 on the datasheet

**MicroSD reader 3v3:**

<https://www.digikey.com/product-detail/en/molex/5031821852/WM12834CT-ND/5823232>

cm1624 <-- Look into this for the protecting micro sd

**Linear Regulator:**

**Digital I/O:**

Serial

Fan PWM

2 encoders

**Logic Shifter**

<https://www.digikey.com/product-detail/en/texas-instruments/TXB0108PWR/296-21527-1-ND/1305700>

**Radio**

TO DO:

1. 3v3 power line / 5v Line / Linear Regulator
2. MicroSD Circuit (Checkish)
3. Current Sensor Circuit
4. Digital IO (Fan PWM and 2 Encoders)
5. Radio

Total Amp:

3.6A Neopixel

3.6e-6A Temp Sensor