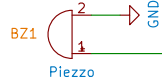
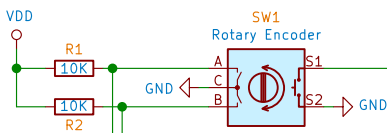


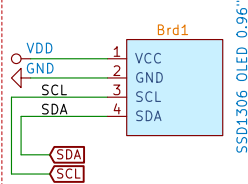
Beeper



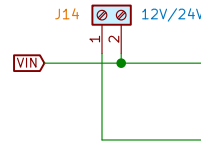
Rotary Encoder



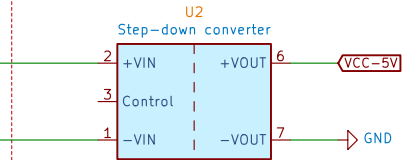
Display



VIN Terminal

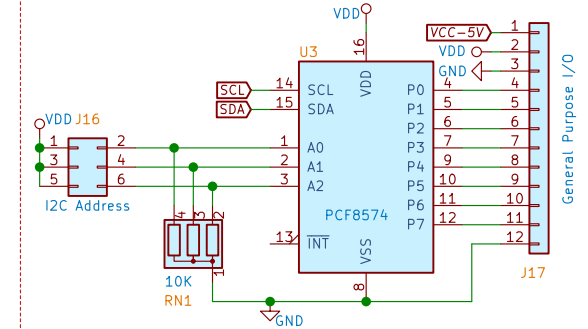


Primary Buck Converter

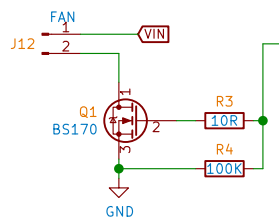


VDD = 3.3V Buck Converter on NodeMCU (3V3 pin)

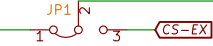
Spare GPI/Os (Optional)



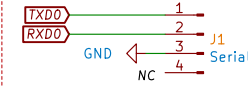
Stepper Fan



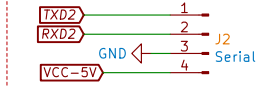
Fan/CS-EX switch



Primary Serial

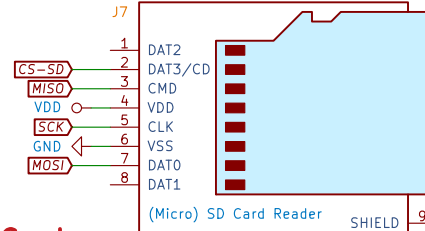


Secondary Serial

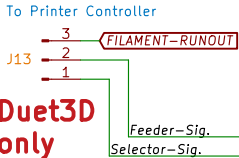


Note: This pinout may not reflect your SD-Card Reader pinout. Make sure that all signals (MISO/MOSI/SCK/CS/VDD/GND) are connected to the according pins labeled on your SD-Card Reader PCB!

SD-Card

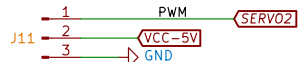


Duet3D only

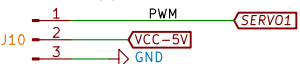


Servos

Revolver Servo (2)



Wiper Servo (1)



Selector Endstop

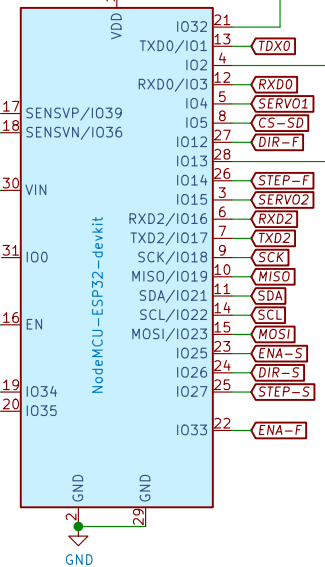


Feeder Endstop

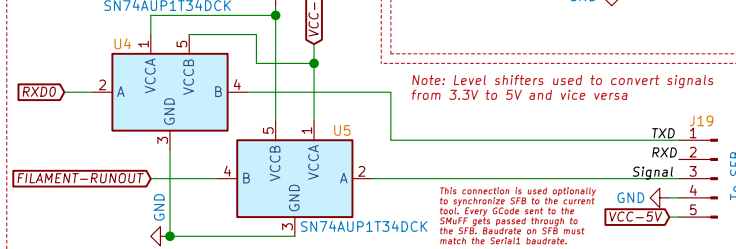


Endstops

NodeMCU Module



SFB (Optional)



Note: Level shifters used to convert signals from 3.3V to 5V and vice versa

This connection is used optionally to synchronize SFB to the current tool. Every GCode sent to the SMuFF gets passed through to the SFB. Baudrate on SFB must match the Serial baudrate.

Proof Of Concept for SMuFF-ESP32 Controller

Based on NodeMCU ESP32 devkit-1
SMuFF Firmware Version 2.xx needed

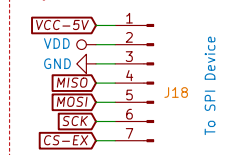
Technik Gegg

Sheet: /
File: ESP32 Controller.sch

Title: SMuFF ESP32 Controller Board

Size: A4 Date: 2020-05-01
KiCad E.D.A. kicad (5.1.2)-2

Spare SPI



Spare I2C

