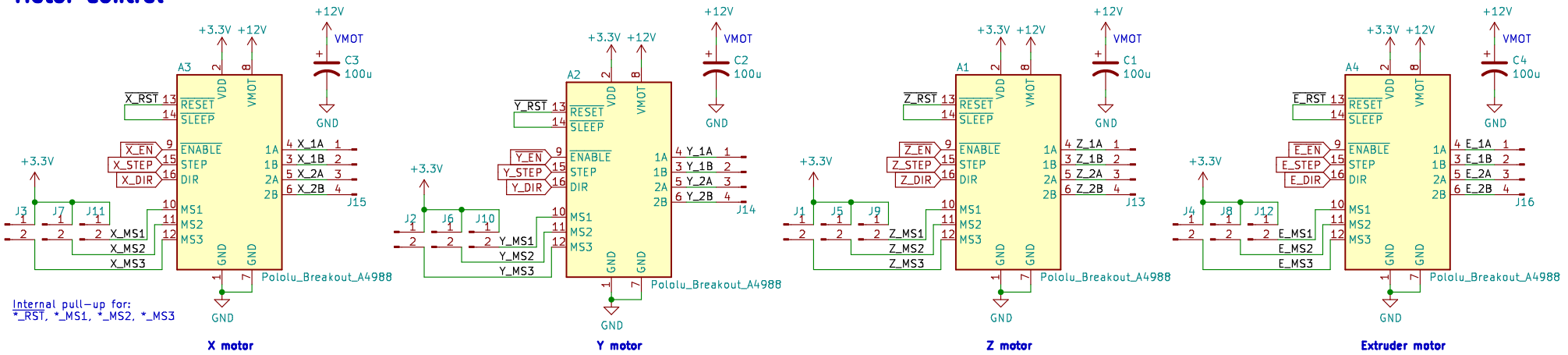
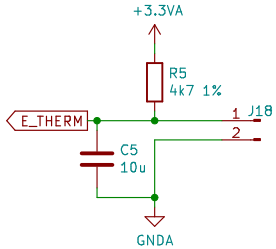
Motor control



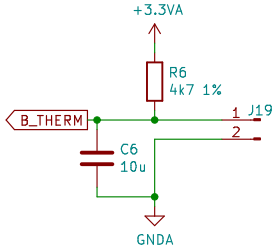
Internal pull-up for:
*_RST, *_MS1, *_MS2, *_MS3

X motor **Y motor** **Z motor** **Extruder motor**

Thermistors



Extruder thermistance



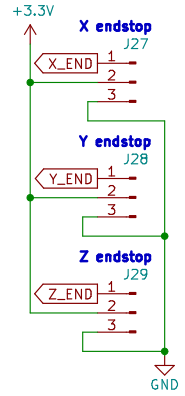
Bed thermistance

ETHERM and BTHERM have to be connected to ADC capable STM32 analog pins. These are:

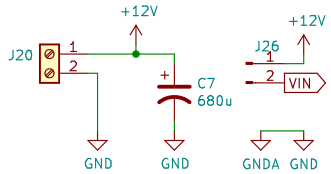
PC0,PC1,PC2,PC3
PC4,PC5,PB0,PB1
PA0,PA1,PA2,PA3
PA4,PA5,PA6,PA7

See MB1136 layout for analog VDD and GND connections
VDDA is connected to VDD through ferrite bead
GNDA is connected to GND through solder bridge

Endstops

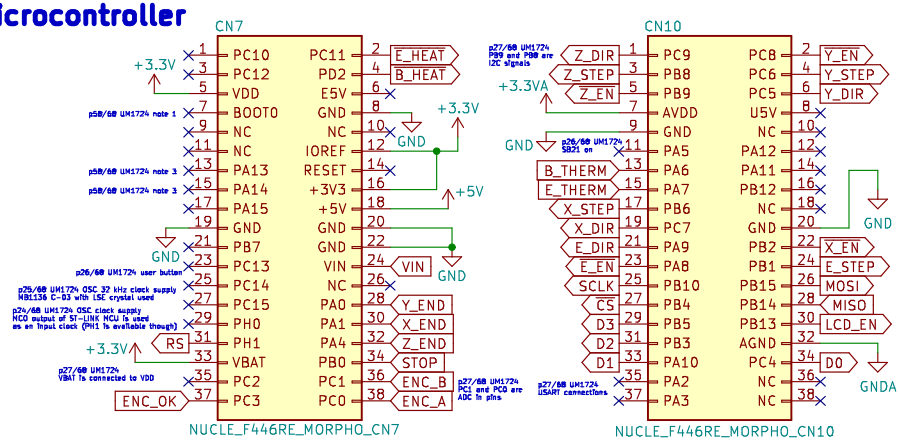


Power

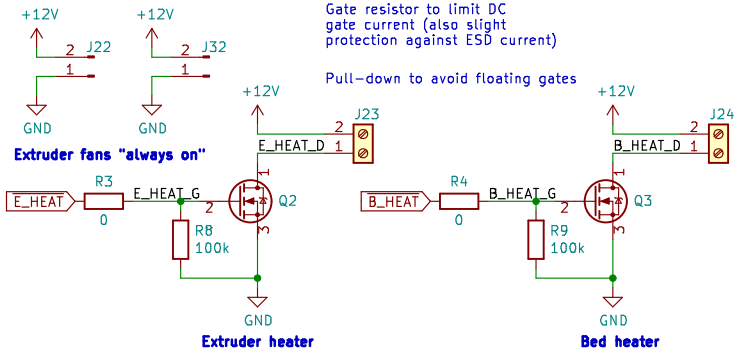


Be connecting 12 V to VIN of nucleo board, we can power the STM32 board via external 12 V supply

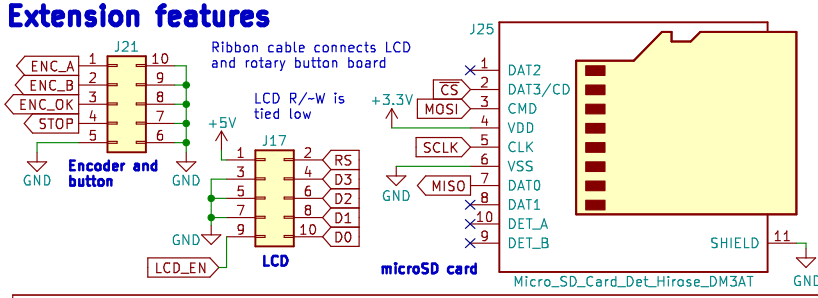
Microcontroller



Fan, extruder, bed drivers



Extension features



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Title: STM32 Nucleo 3D printer controller

Size: A4	Date: 2022-07-23	Rev: v1.0
KiCad E.D.A. kicad 6.0.5-a6ca702e91~116~ubuntu20.04.1		Id: 1/1