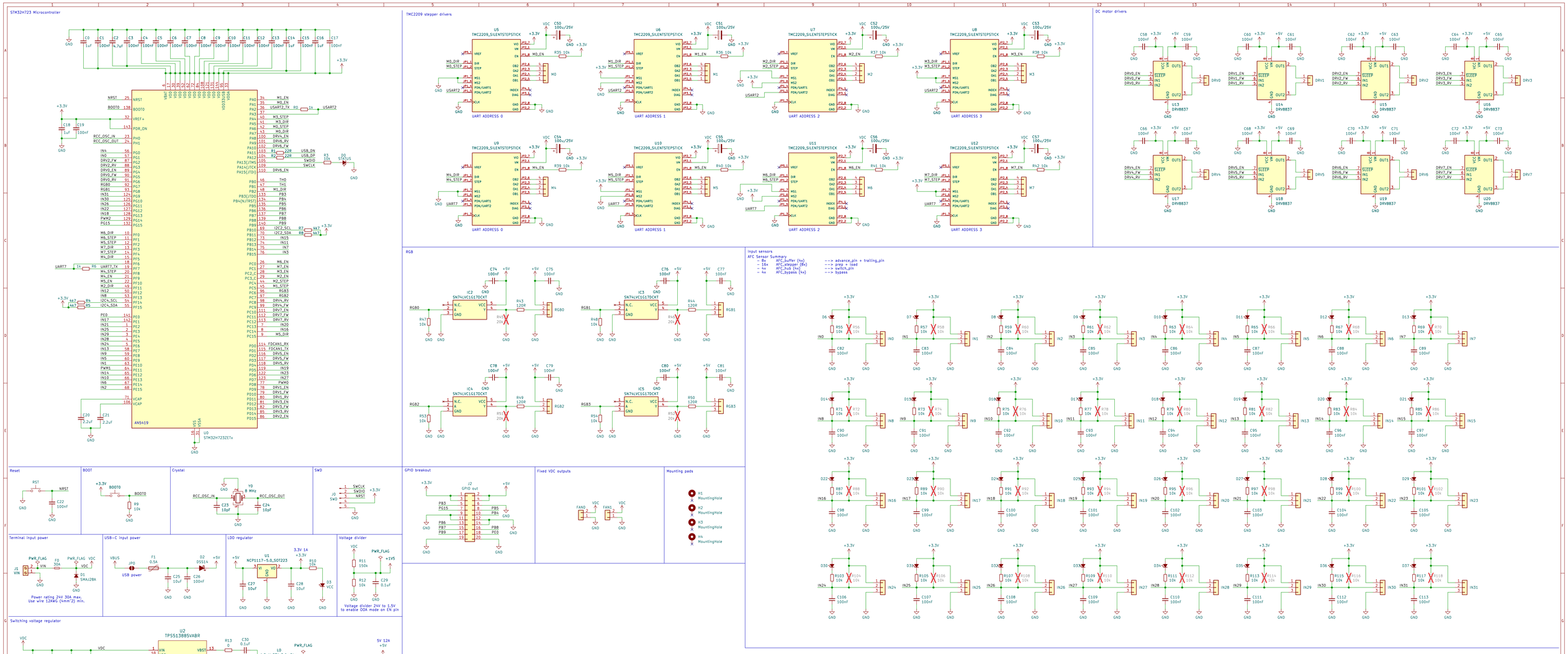
STM32H723 Microcontroller
TMC2209 stepper drivers
DC motor drivers
RGB
Input sensors
AFC Sensor Summary
- 8x AFC_buffer (4x) --> advance_pin + trailing_pin
- 16x AFC_stepper (8x) --> prep + load
- 4x AFC_hub (4x) --> switch_pin
- 4x AFC_bypass (4x) --> bypass
Reset
BOOT
Crystal
SWD
GPIO breakout
Fixed VDC outputs
Mounting pads
Terminal input power
USB-C input power
LDO regulator
Voltage divider
Voltage divider 24V to 1.5V to enable DOA mode on EN pin
Switching voltage regulator
CANbus
I2C breakout
USB-C connector + ESD protection
PWM outputs
Max 3A load!
Thermistors
The Multi-Material, Multi-toolhead Connection Point
github.com/Eytecz
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Sheet: /
File: Owl AFC-TC.kicad_sch
Title: Owl AFC-TC
Size: A1
Date: 2025-06-02
Rev: 01
KiCad E.D.A. 9.0.2
Id: 1/1