

Duet3 Mainboard 6XD

Processor

Processor

File: Processor.kicad_sch

Sheet: 5F4EC370

Stepper Driver & Endstops

Stepper Signals

File: Stepper_Drv.kicad_sch

MOSFET Outputs

Headers

Headers

File: Headers.kicad_sch

Sheet: B66445E6

File: Endstops.kicad_sch

Power

Power

File: Power.kicad_sch

File: Htr_Fan.kicad_sch

MOSFET outputs

File: Comms.kicad_sch

Comms

(c) Duet3D
Duet3d

Sheet: /
File: Duet3_MB_6XD.kicad_sch

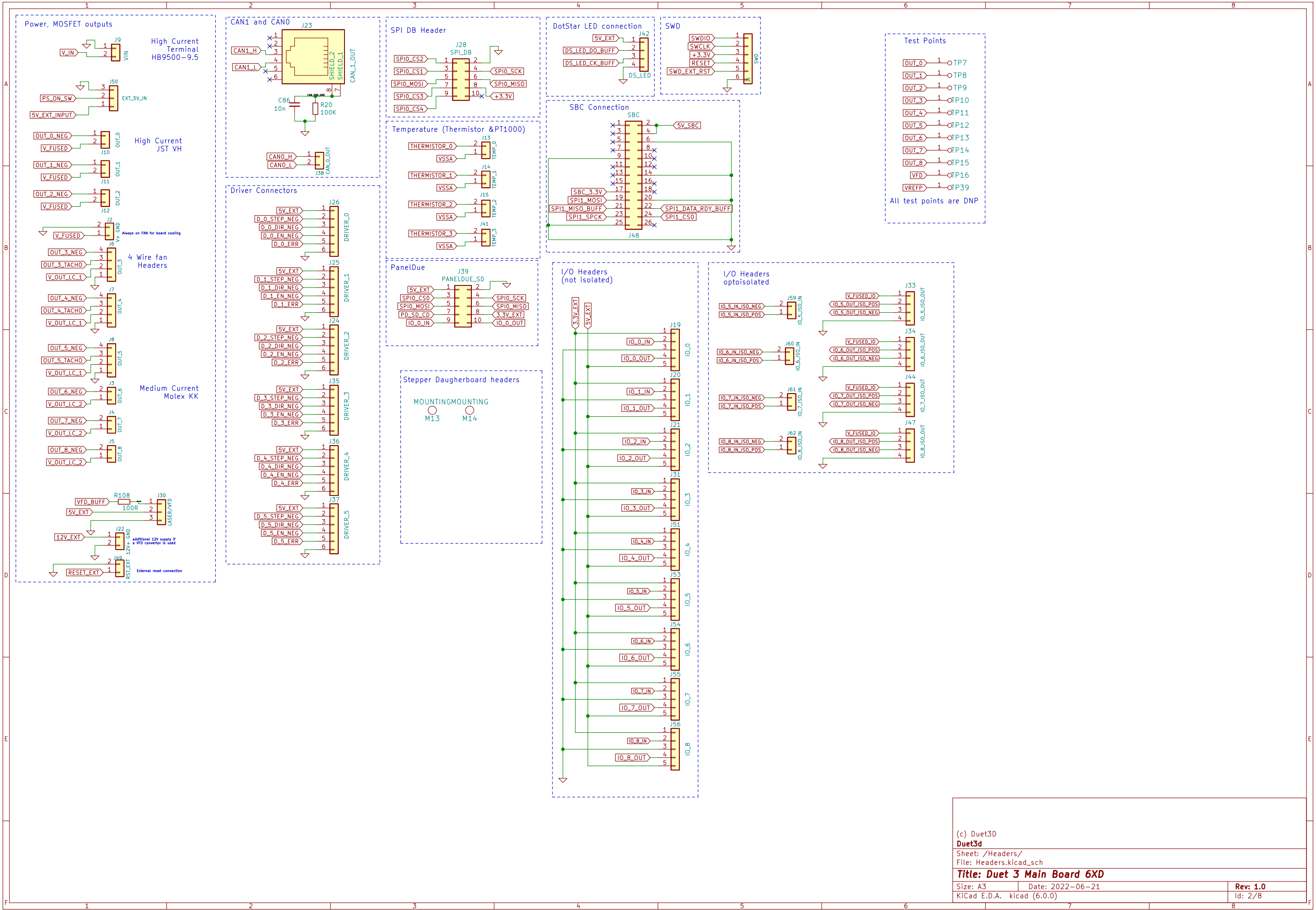
Title: Duet 3 Main Board 6XD

Size: A4 Date: 2022-06-21

KiCad E.D.A. kicad (6.0.0)

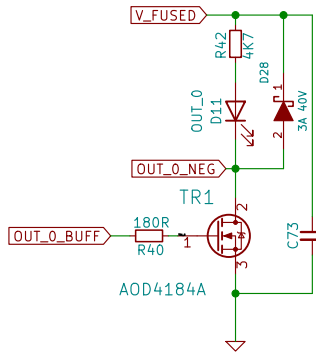
Rev: 1.0

Id: 1/8

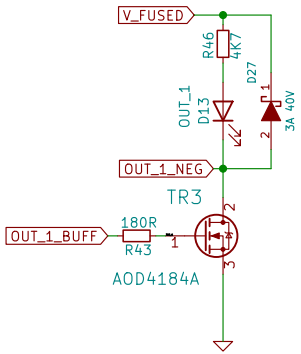


OUT1 – OUT2 – High current MOSFETs

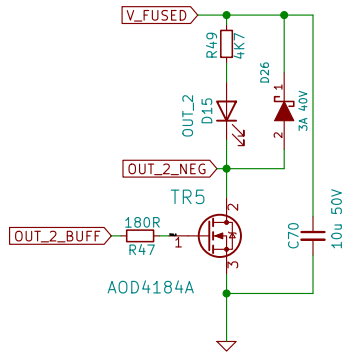
OUT 0 MOSFET CONTROL



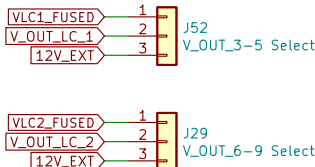
OUT 1 MOSFET CONTROL



OUT 2 MOSFET CONTROL

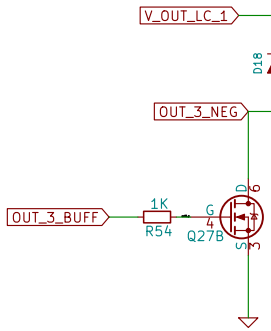


Low current output
Voltage Select

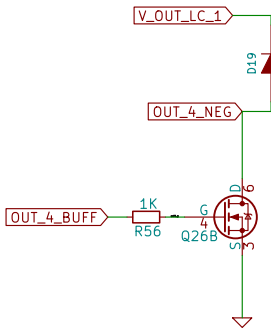


OUT3 – OUT9 – Medium current MOSFETs

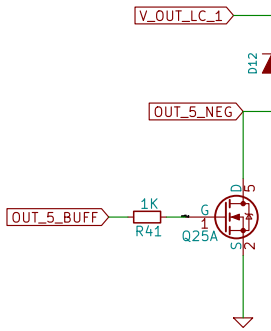
OUT 3 MOSFET CONTROL



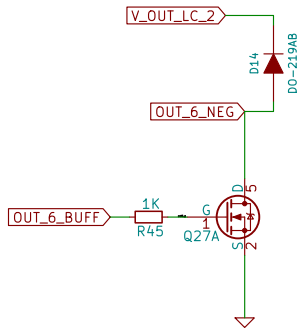
OUT 4 MOSFET CONTROL



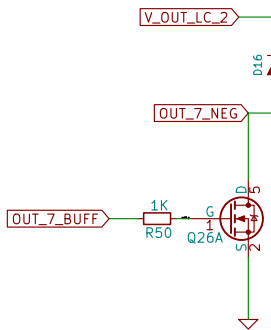
OUT 5 MOSFET CONTROL



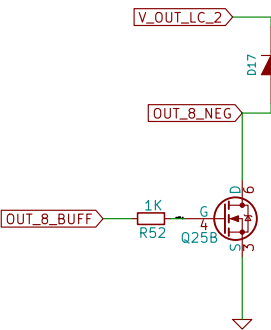
OUT 6 MOSFET CONTROL



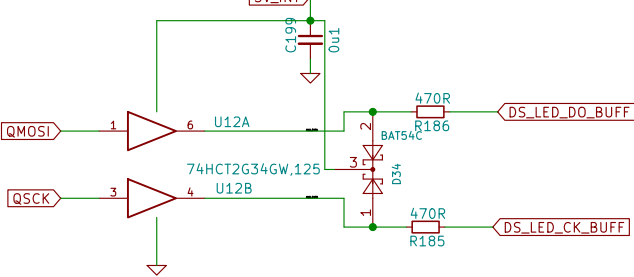
OUT 7 MOSFET CONTROL



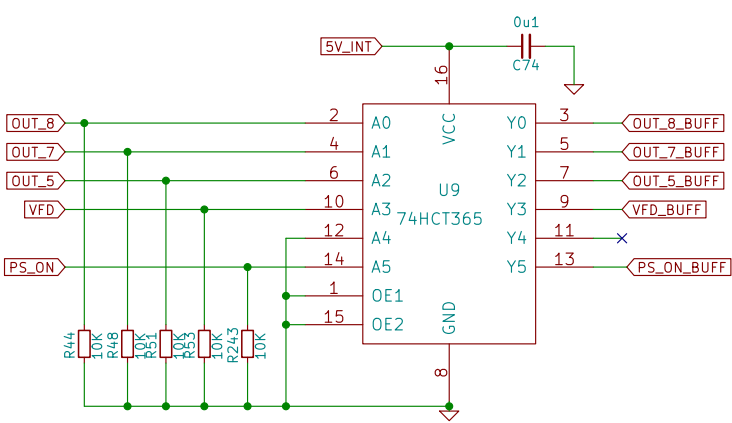
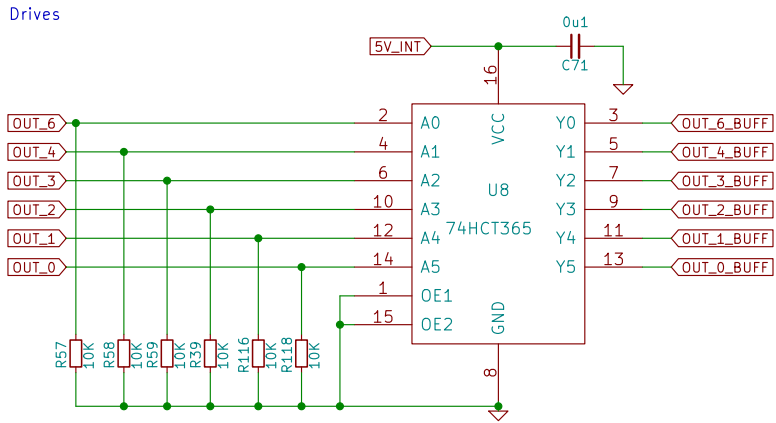
OUT 8 MOSFET CONTROL



Dotstar LED buffer



FET Drives



(c) Duet3D

Duet3d

Sheet: /MOSFET outputs/

File: Htr_Fan.kicad_sch

Title: Duet 3 Main Board 6XD

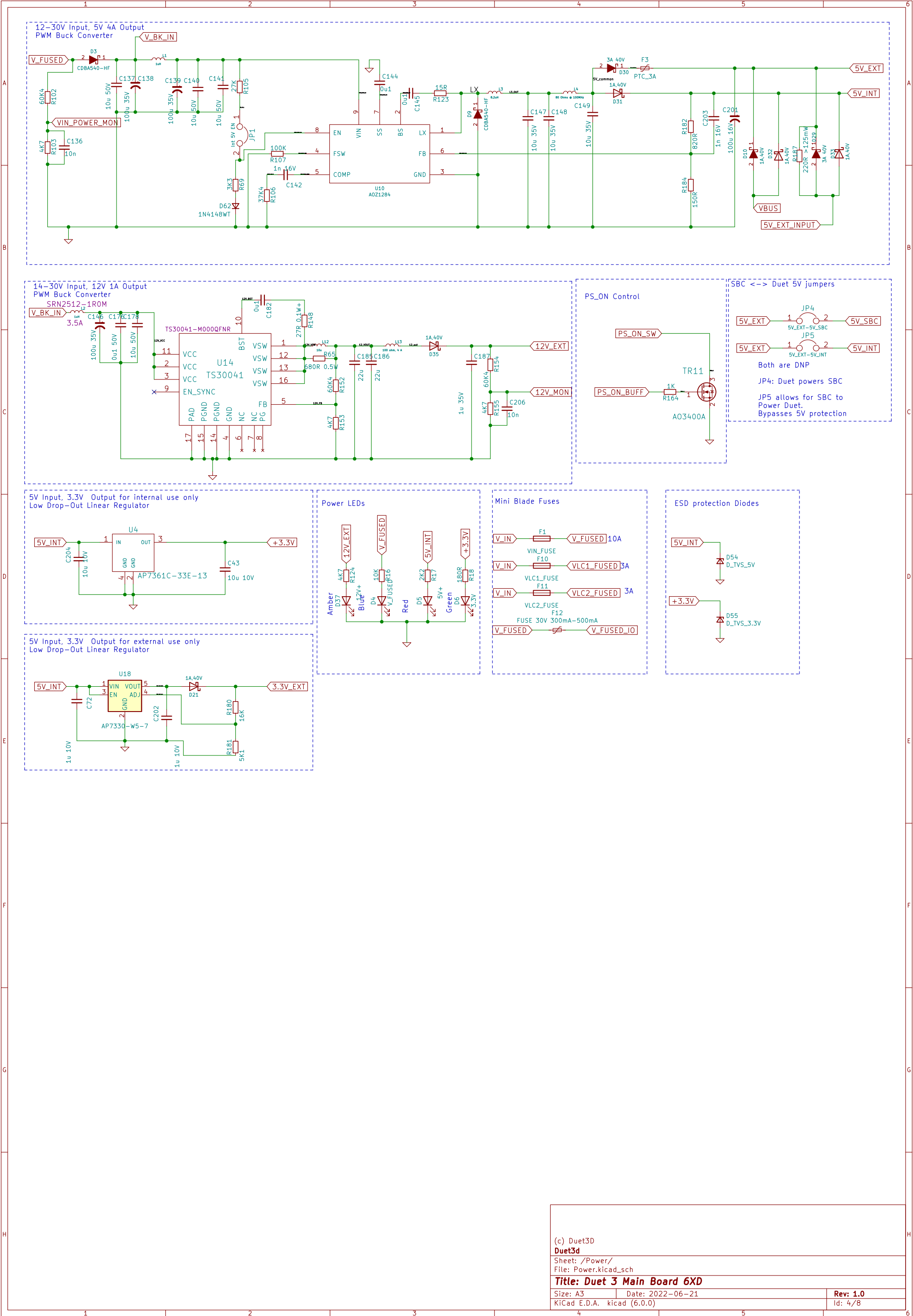
Size: A3

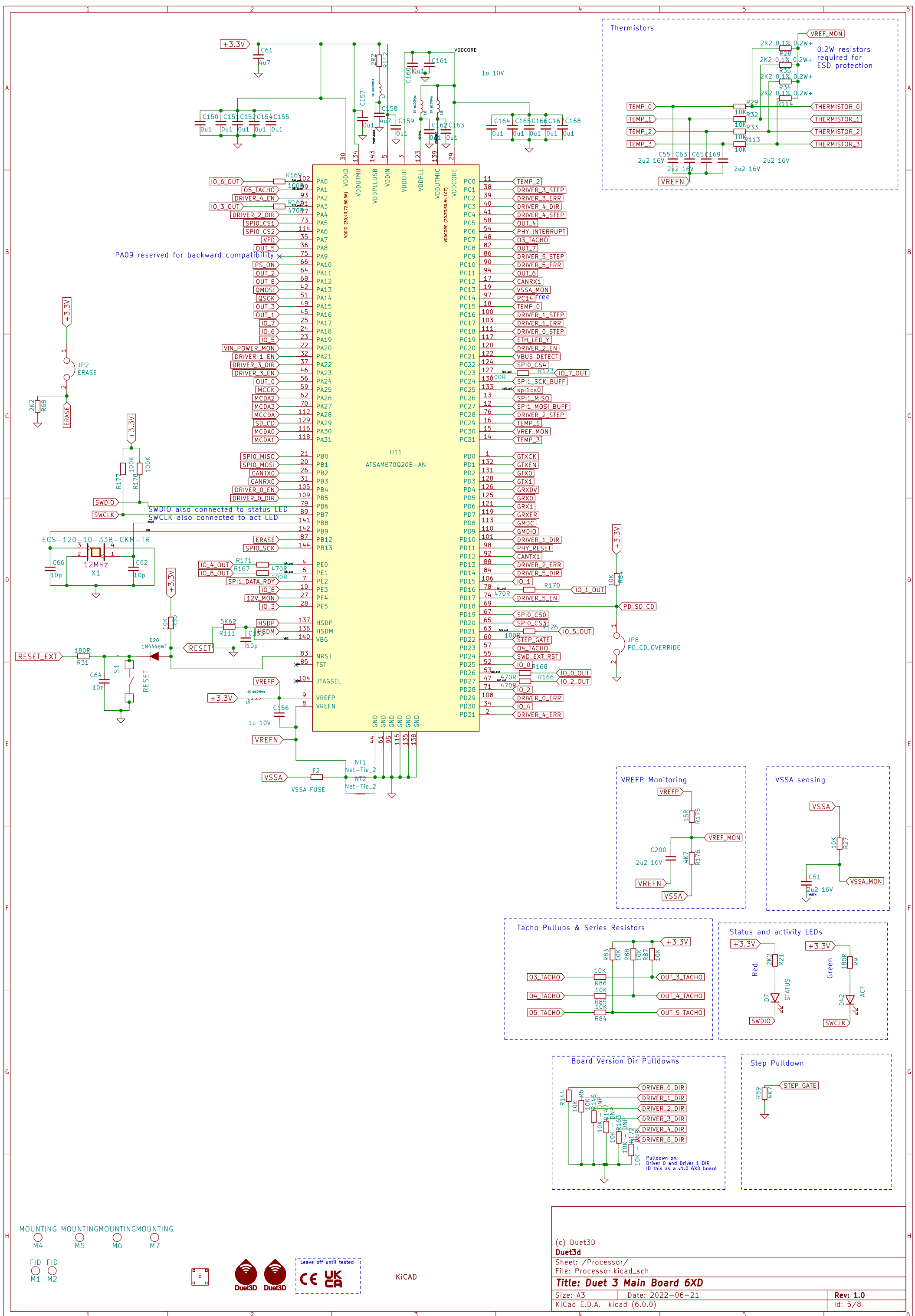
Date: 2022-06-21

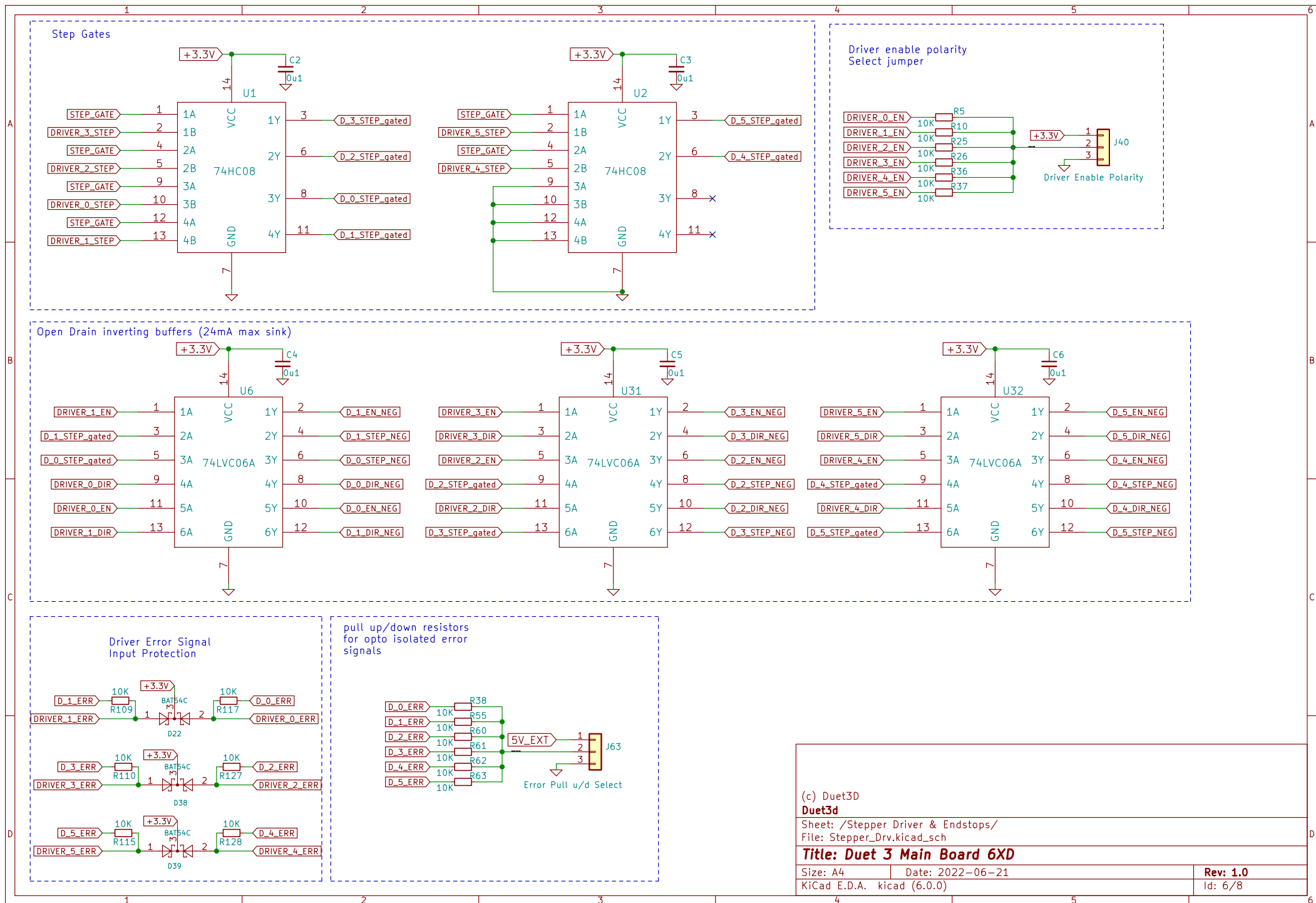
Rev: 1.0

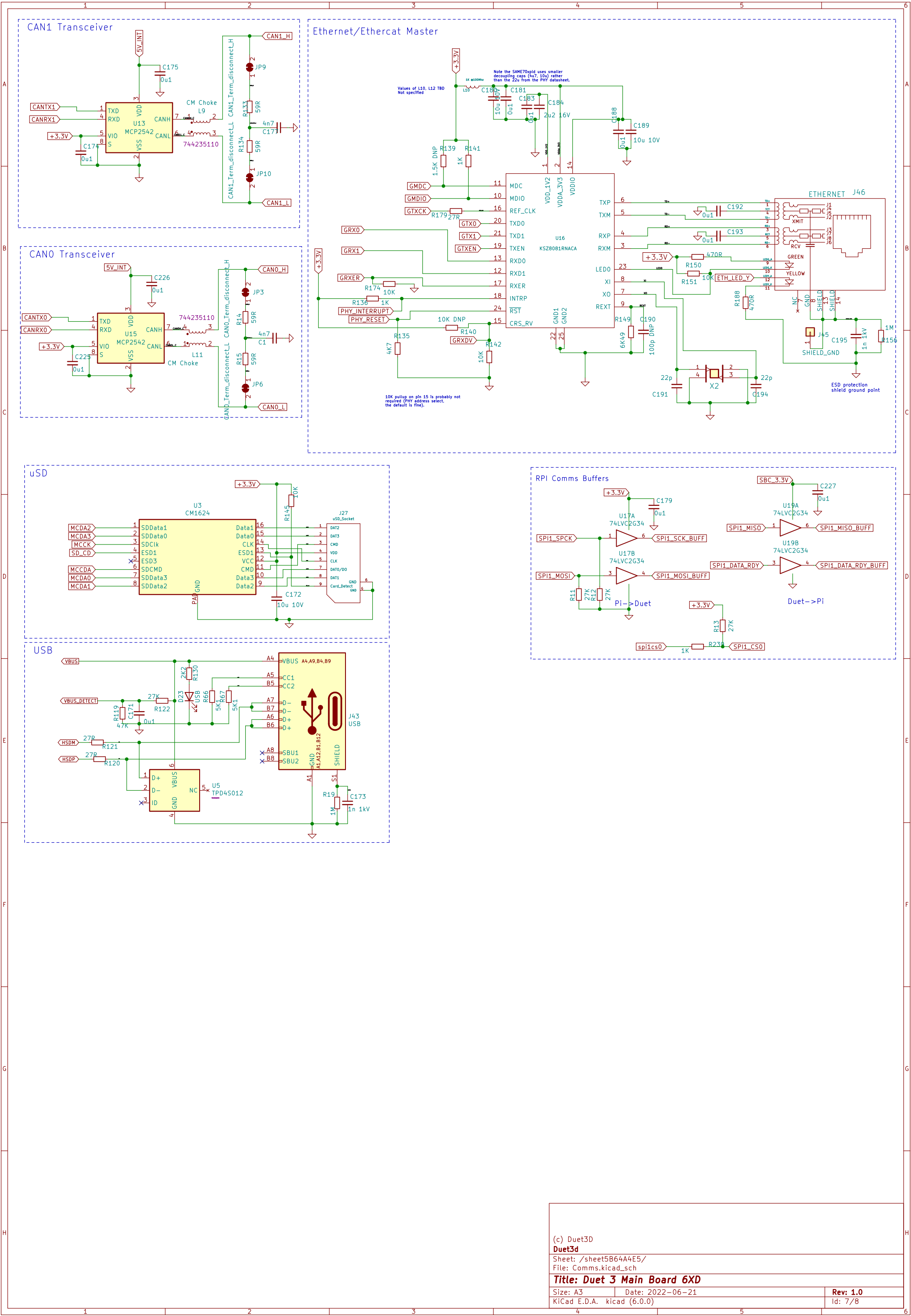
KiCad E.D.A. kicad (6.0.0)

Id: 3/8

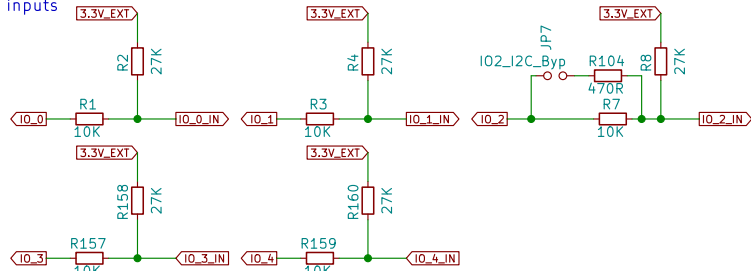




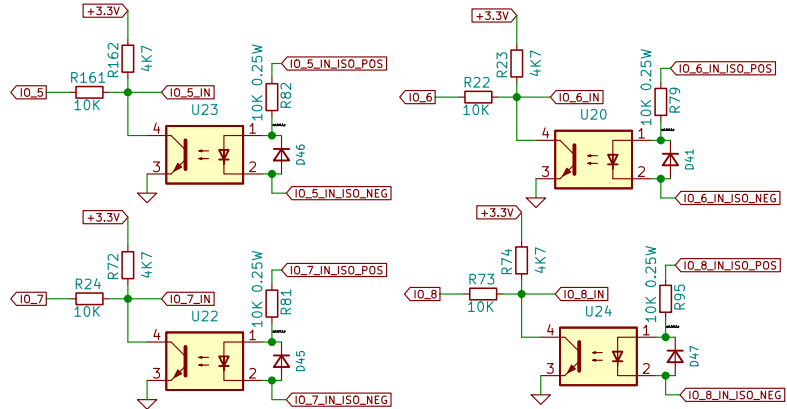




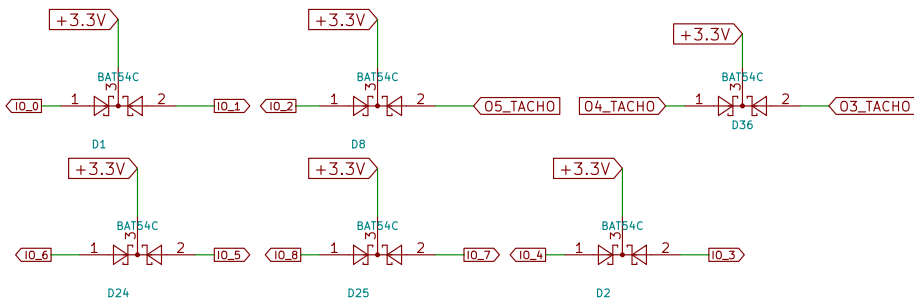
IO inputs



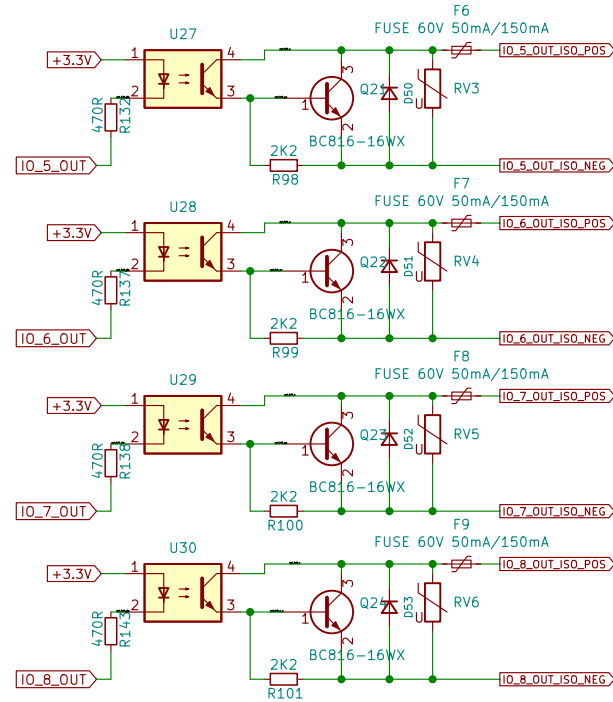
Optoisolated IO inputs



3.3V Signal level Clamping



Optoisolated IO outputs



(c) Duet3D

Duet3d

Sheet: /sheet5F4EC370/

File: Endstops.kicad_sch

Title: Duet 3 Main Board 6XD

Size: A4 Date: 2022-06-21

KiCad E.D.A. kicad (6.0.0)

Rev: 1.0

Id: 8/8