

Duet3 Mainboard 6HC

Processor

Processor

File: Processor.kicad_sch

Stepper Driver & Endstops

Stepper Drivers

File: Stepper_Drv.kicad_sch

Headers

Headers

File: Headers.kicad_sch

IO

IO

File: Endstops.kicad_sch

MOSFET Outputs

MOSFET outputs

File: Htr_Fan.kicad_sch

Comms

Comms

File: Comms.kicad_sch

Power

Power

File: Power.kicad_sch

(c) Duet3D
Duet3d

Sheet: /
File: Duet3_MB_6HC.kicad_sch

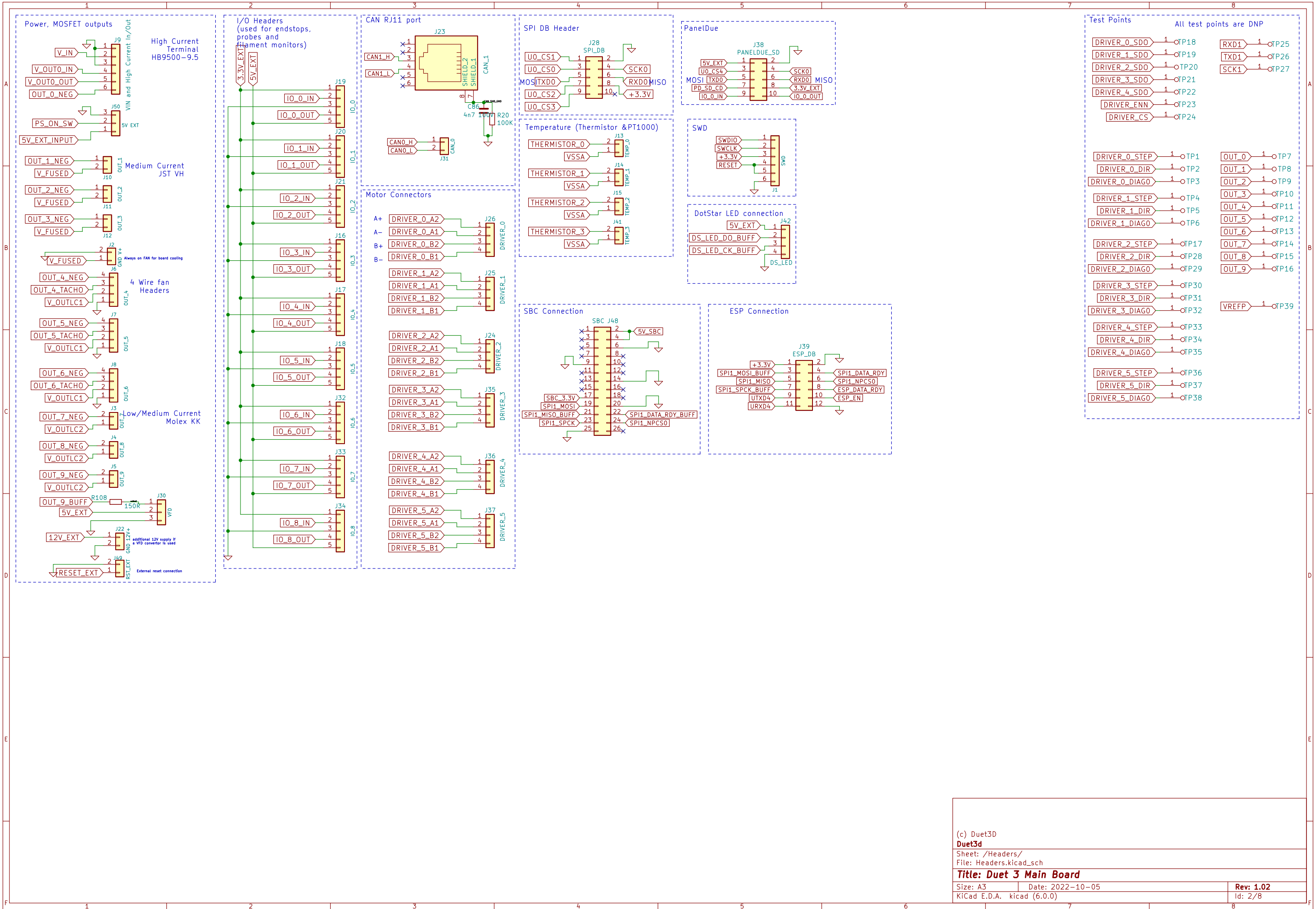
Title: Duet 3 Main Board

Size: A4 Date: 2022-10-05

KiCad E.D.A. kicad (6.0.0)

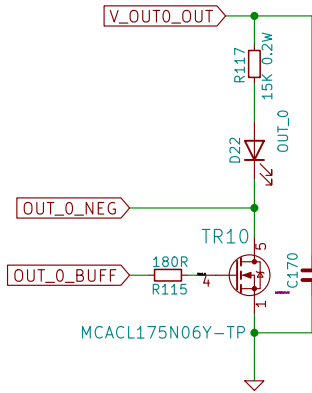
Rev: 1.02

Id: 1/8

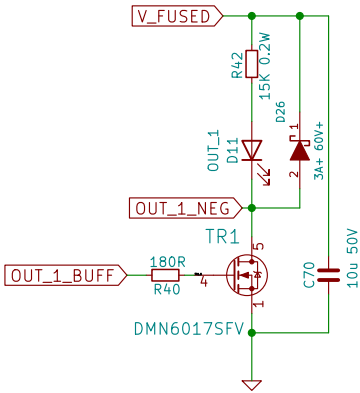


OUT0 – OUT3 – High current MOSFETs

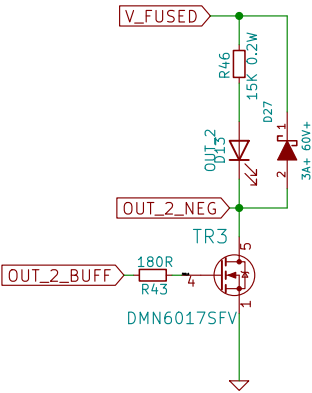
OUT 0 MOSFET CONTROL



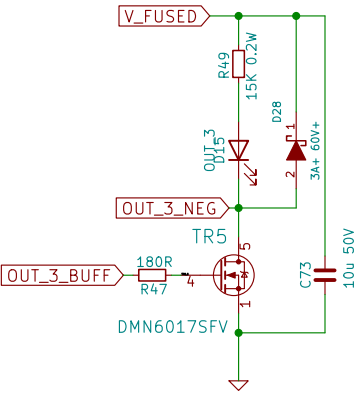
OUT 1 MOSFET CONTROL



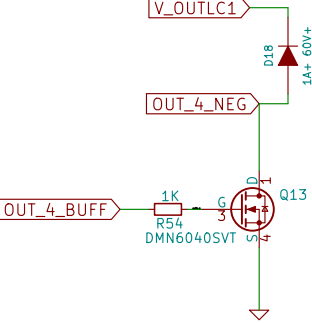
OUT 2 MOSFET CONTROL



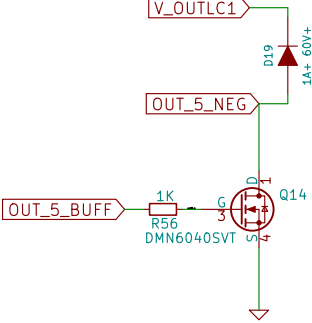
OUT 3 MOSFET CONTROL



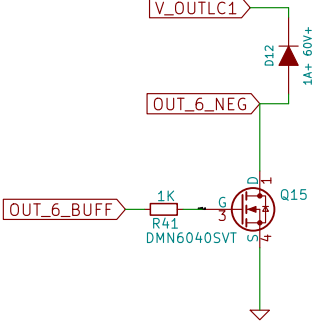
OUT 4 MOSFET CONTROL



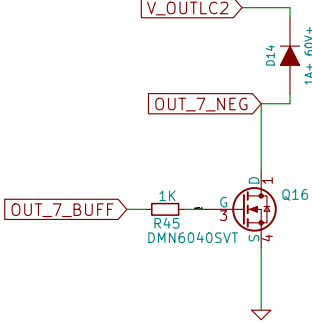
OUT 5 MOSFET CONTROL



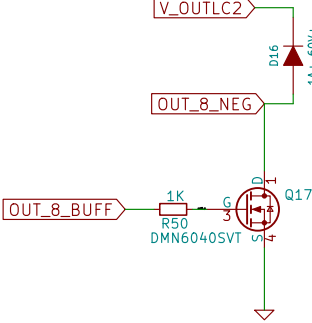
OUT 6 MOSFET CONTROL



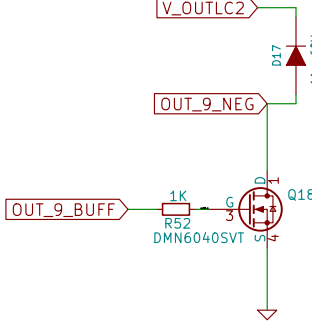
OUT 7 MOSFET CONTROL



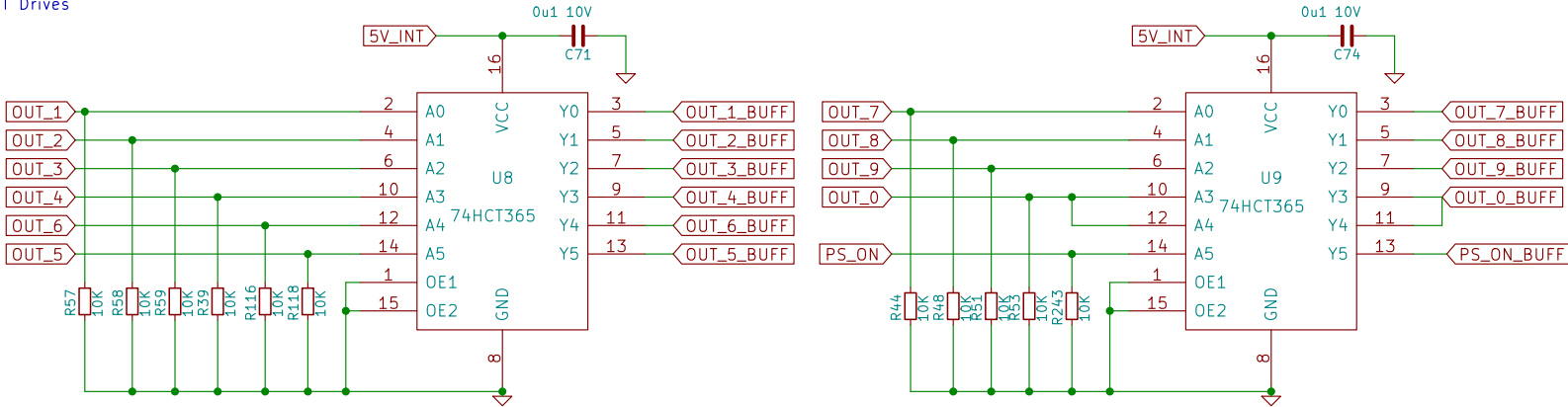
OUT 8 MOSFET CONTROL



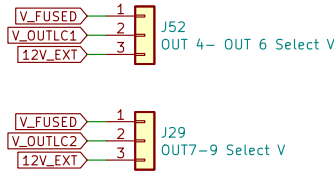
OUT 9 MOSFET CONTROL



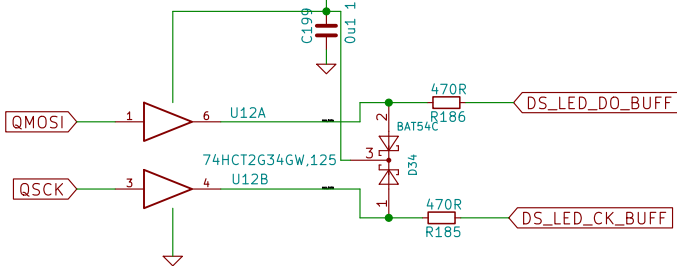
FET Drives



Low current output Voltage Select



Dotstar LED buffer



(c) Duet3D

Duet3D

Sheet: /MOSFET outputs/

File: Htr_Fan.kicad_sch

Title: Duet 3 Main Board

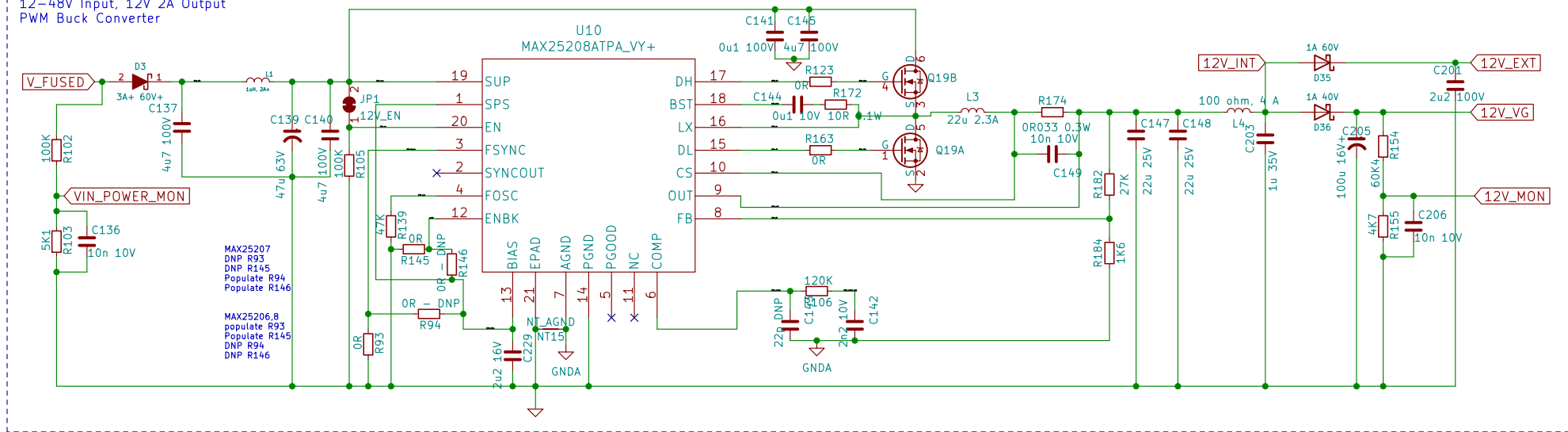
Size: A3 Date: 2022-10-05

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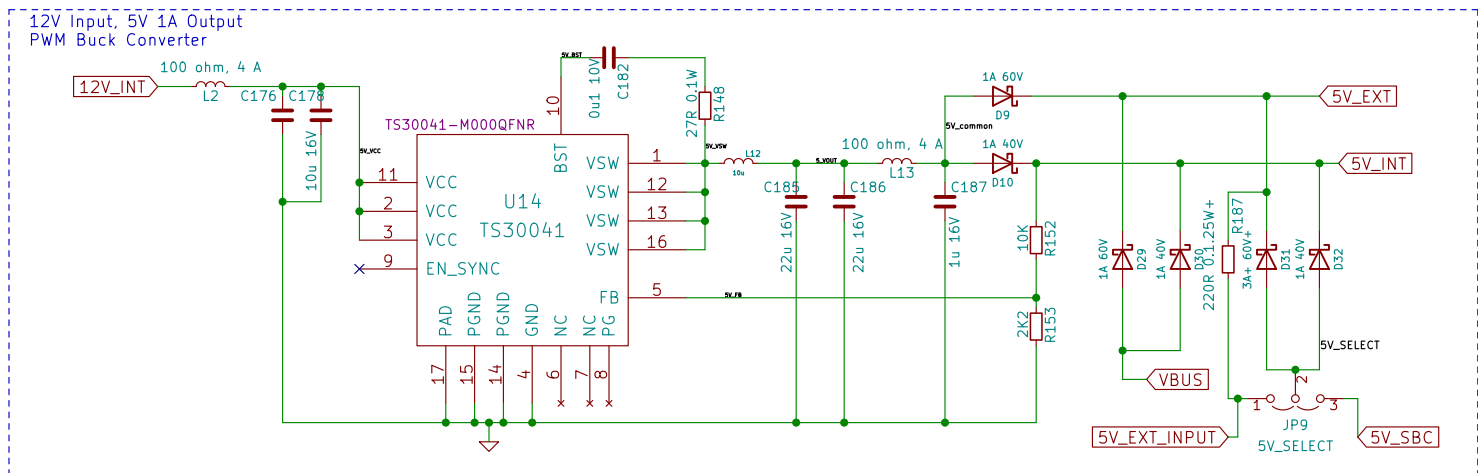
Rev: 1.02

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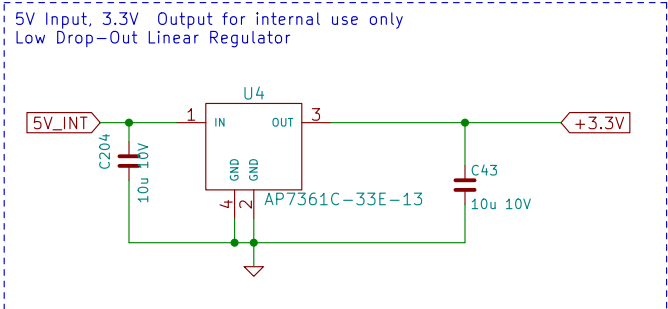
12-48V Input, 12V 2A Output
PWM Buck Converter



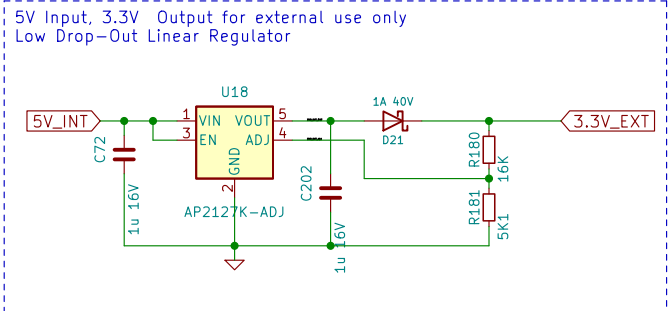
12V Input, 5V 1A Output
PWM Buck Converter



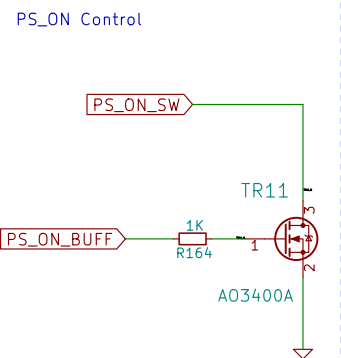
5V Input, 3.3V Output for internal use only
Low Drop-Out Linear Regulator



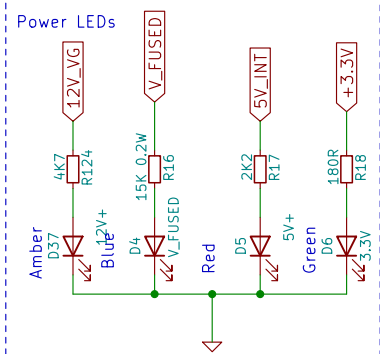
5V Input, 3.3V Output for external use only
Low Drop-Out Linear Regulator



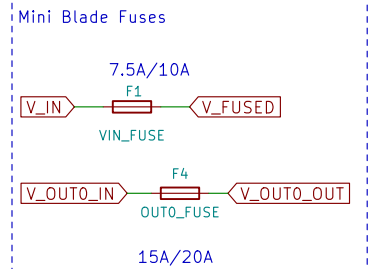
PS_ON Control



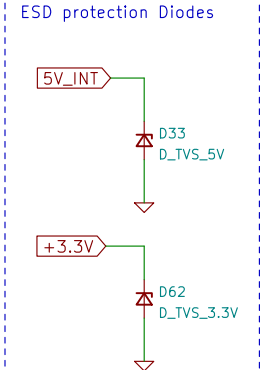
Power LEDs



Mini Blade Fuses



ESD protection Diodes



(c) Duet3D

Duet3d

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KiCad E.D.A. kicad (6.0.0)

Rev: 1.02
Id: 4/8

