

Duet3 ToolBoard 1LC
1 TMC 2209

Sheet: Processor

Processor

File: Processor.sch

Sheet: Stepper Driver & Endstops

Stepper
IO
FETs
Comms

File: Stepper_Drv.sch

Sheet: Headers

Headers & Power

File: Headers.sch

www.duet3d.com
(c) Duet3D
Duet3D

Sheet: /
File: Duet3_TB_1LC.sch

Title: Duet 3 – Tool Board – 1LC

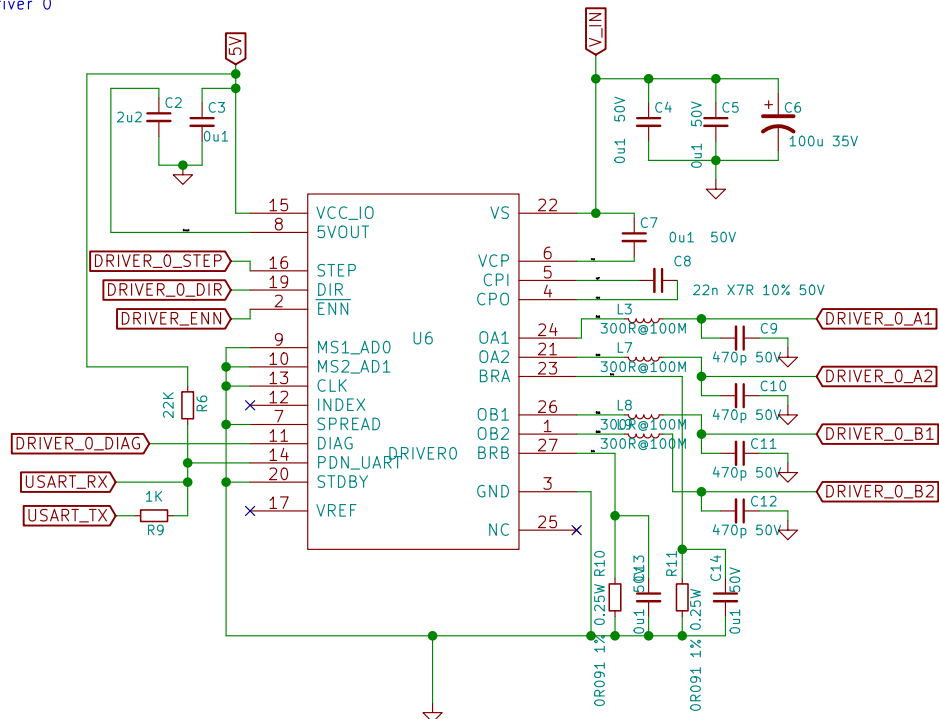
Size: A4 Date: 2021-01-04

KiCad E.D.A. kicad (5.1.4)-1

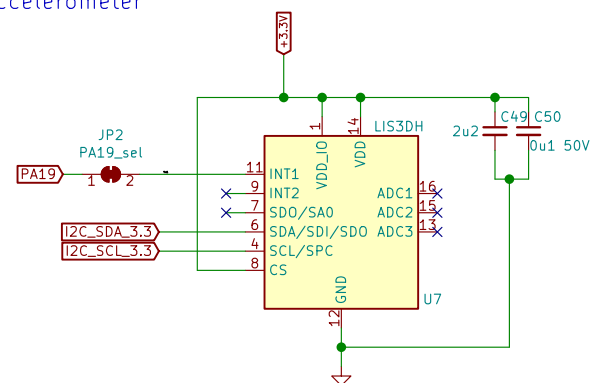
Rev: 1.1

Id: 1/4

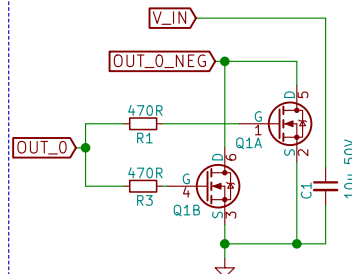
Driver 0



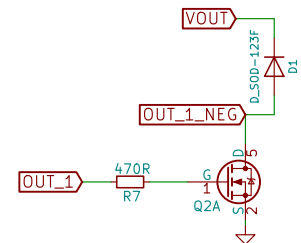
Accelerometer



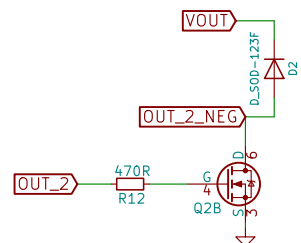
OUT 0 MOSFET CONTROL



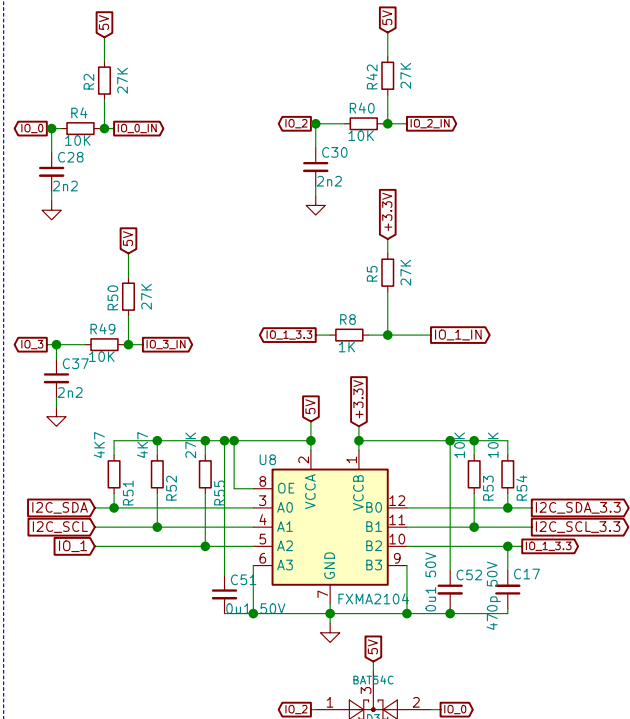
OUT 1



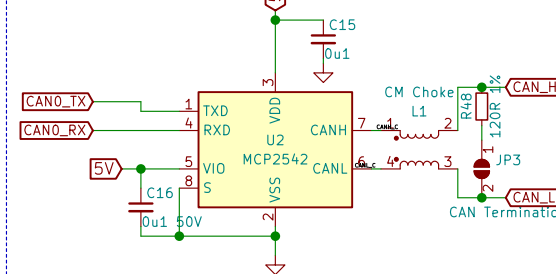
OUT 2



Input protection and level shifting



CAN Transceiver



www.duet3d.com

(c) Duet3D

Duet3D

Sheet: /Stepper Driver & Endstops/

File: Stepper_Drv.sch

Title: Duet 3 – Tool Board – 1LC

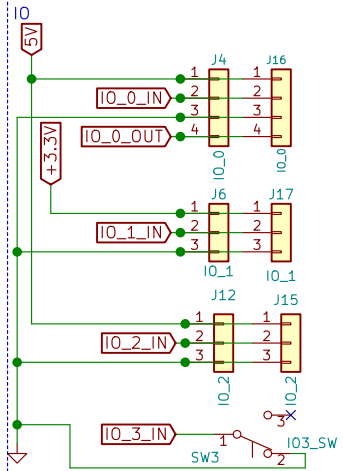
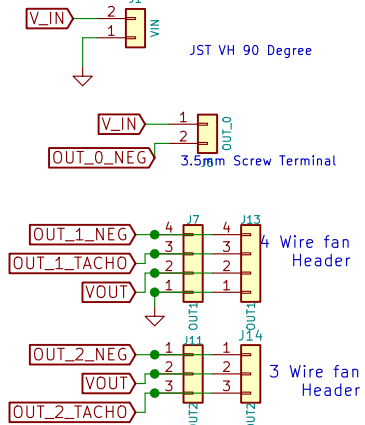
Size: A4 Date: 2021-01-04

KiCad E.D.A. kicad (5.1.4)-1

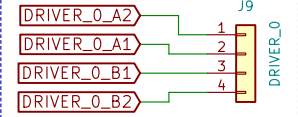
Rev: 1.1

Id: 2/4

Power, MOSFET outputs

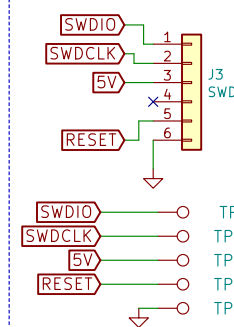


Motor Connector - JST PA

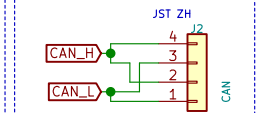


NOTE: Stepper motor pinout is different from other Duet 3s to simplify routing

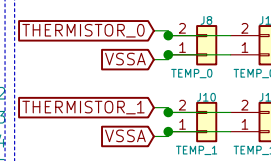
SWD Connector



CAN

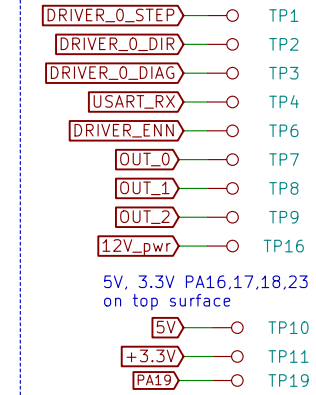


Temperature

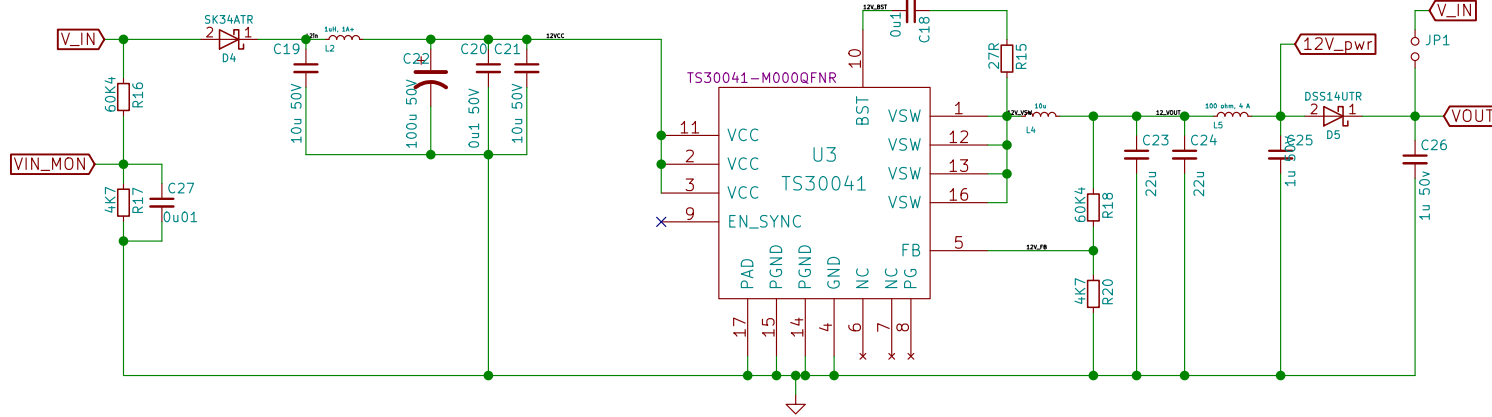


Test Points

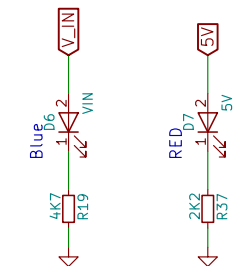
All test points are DNP



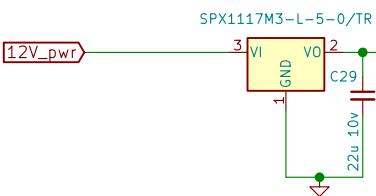
24-36V Input, 12V 2A Output PWM Buck Converter



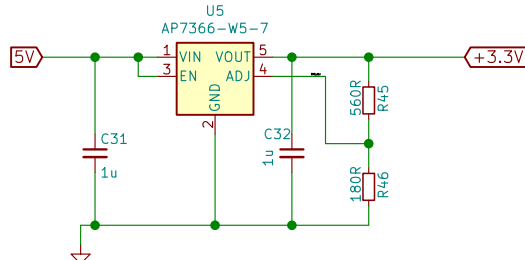
Power LED 5V LED



12V Input, 5V Output Low Drop-Out Linear Regulator



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



www.duet3d.com

(c) Duet3D

Duet3D

Sheet: /Headers/

File: Headers.sch

Title: Duet 3 - Tool Board - 1LC

Size: A4

Date: 2021-01-04

KiCad E.D.A. kicad (5.1.4)-1

Rev: 1.1

Id: 3/4

