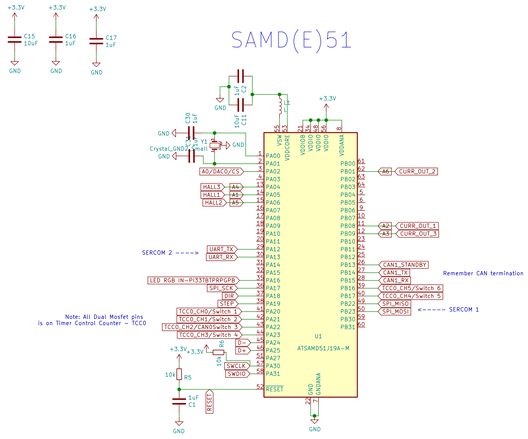
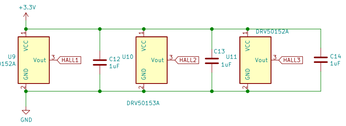
SAMD(E)51



3 digital HALL sensors



CONx5 (SWDIO 2.54mm PogoPin)

CONx2 (CAN FD)

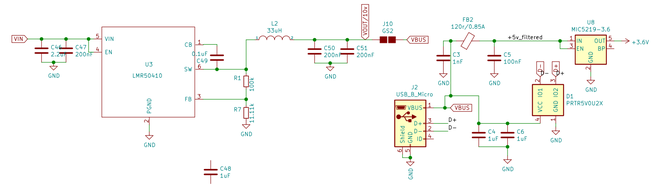
CONx2 (USB DATA LINES)

CONx2 (SPI & UART)

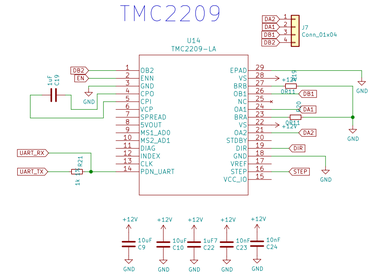
LED RBG IN-PI33TBTPRPGPB

MAX INDPUT VOLTAGE 24V (MOSFETS IS RATED AT 30V)

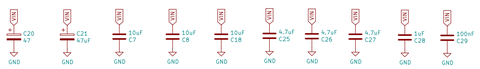
4.2-65v to 10v 1amp Switching PWR, USB & LDO

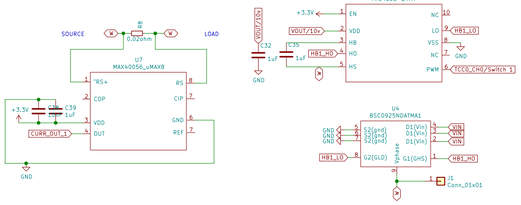


TMC2209

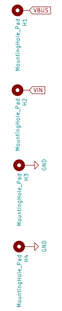


3 fase driver w. curretn sens resistors and amplifiers





WARNING: Do not bridge 10v to VBUS and connect your computers USB plug!
When the solder bridge is connected, the LDO will transform the 10v to 3.6 system voltage.
This means you can power the whole system from VIN.
The Mosfet's gates, will be driven by 10v.
MOSFET's is 30 amp rated. TMC2209 is also 30v rated.
Dont exeed 24v on VIN!



This project is in development. The project is a linear 3 fase motor driver with onboard stepper driver
Author: Juan-Antonio S. E. Pedersen
License: For commercial purposes, you must make arangements with the author.
CC - NC - BY
MOW (Makers of the world)

Sheet: /
File: NRF_HALLA.kicad_sch

Title: HALL_A

Size: A1	Date: 2020-09-13	**Rev: 0.1**
KiCad E.D.A. kicad (5.99.0-2965-g3673c23696)		Id: 1/1