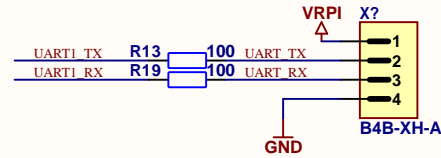
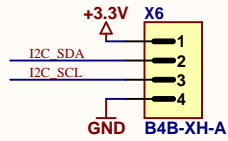


UART Communication & RPI Supply



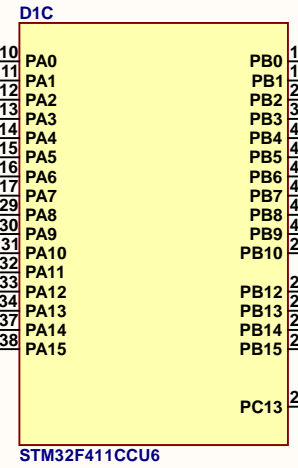
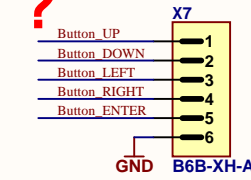
?

Display



?

Buttons



STM32F411CCU6

?

?

U_Startracker_Power

Startracker_Power.SchDoc

- Power_Enable
- RPI_Enable
- Motor_Booster_Enable

?

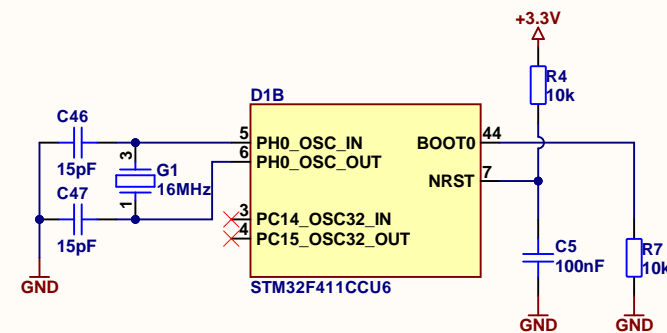
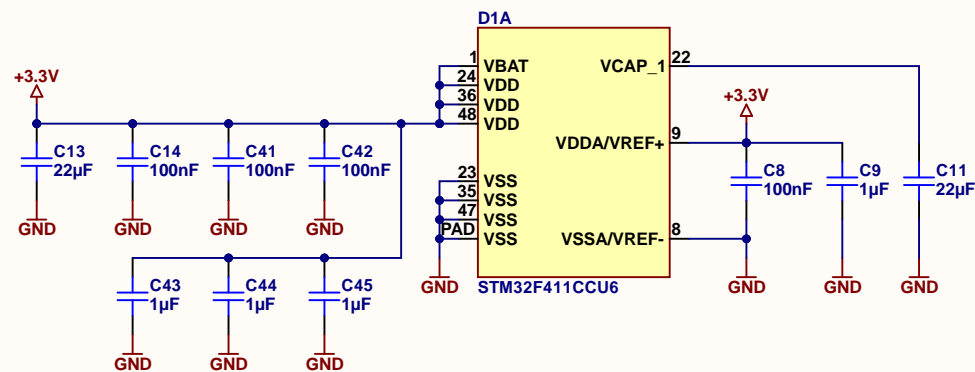
U_Startracker_Stepper

Startracker_Stepper.SchDoc

- TMC_EN
- TMC_MS1
- TMC_MS2
- PDN_UART
- TMC1_STEP
- TMC1_DIR
- TMC1_DIAG
- TMC1_INDEX
- TMC2_STEP
- TMC2_DIR
- TMC2_DIAG
- TMC2_INDEX
- TMC3_STEP
- TMC3_DIR
- TMC3_DIAG
- TMC3_INDEX
- TMC_PWM_VREF

?

?



Project:

Startracker

File name:

Startracker_Mainboard.SchDoc



Drawn by:

L. Barbisch

Drawn date:

dd.mm.yyyy

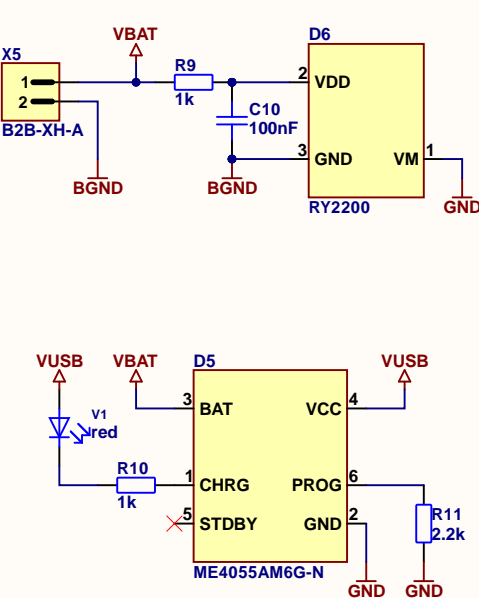
Revision:

DRAFT1

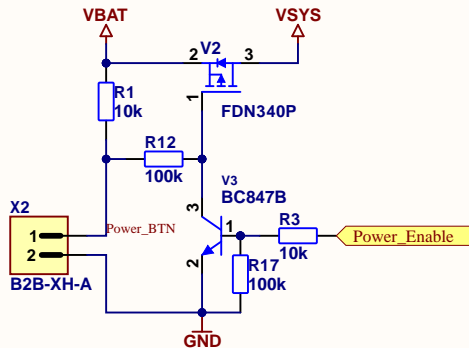
Page:

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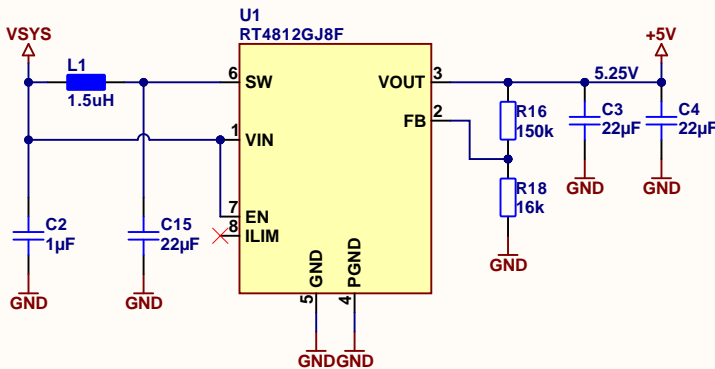
Battery protection and charging



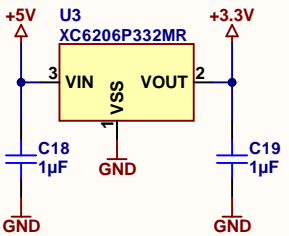
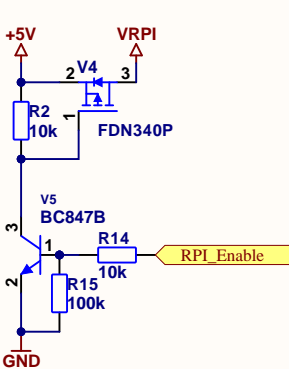
Power latching zirqriz



+5V supply for RPI and uC

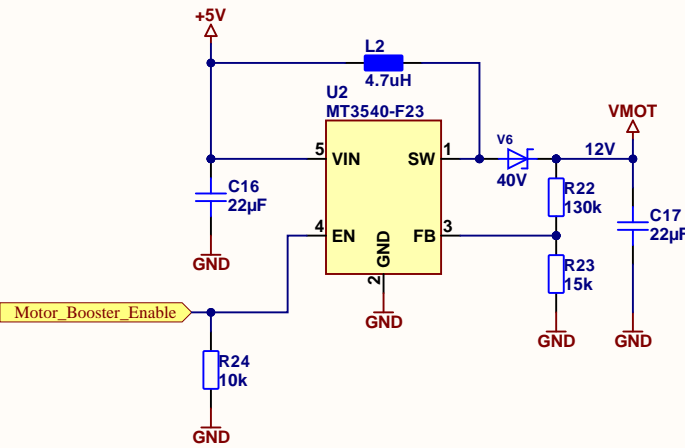


Power distribution



Used simply for STM, Display, IMU and Buttons

selectable +12V supply for motors

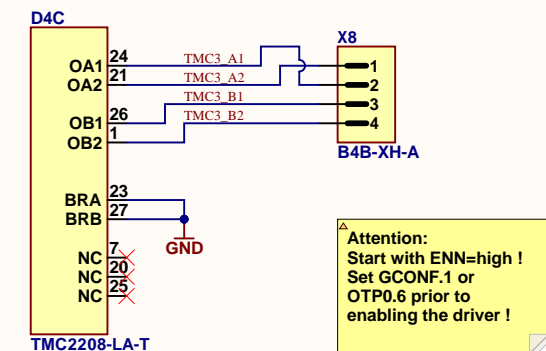
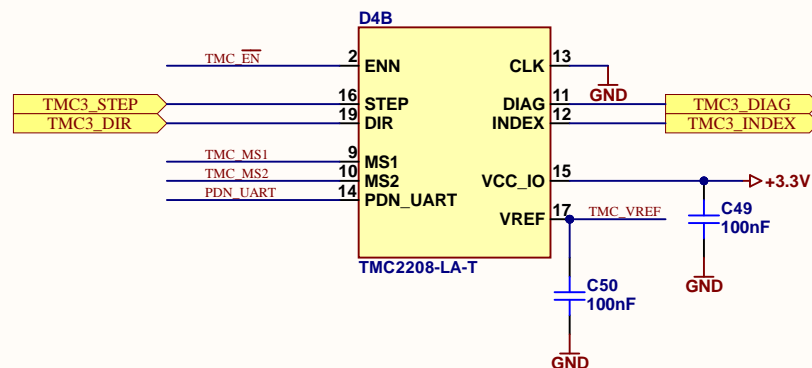
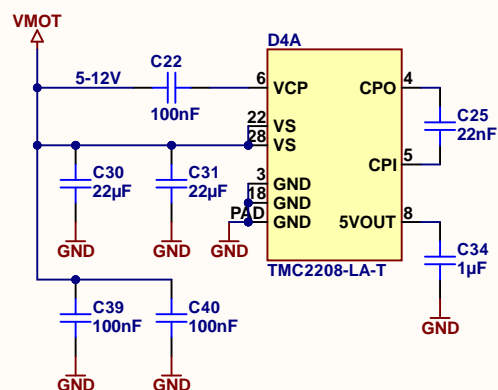
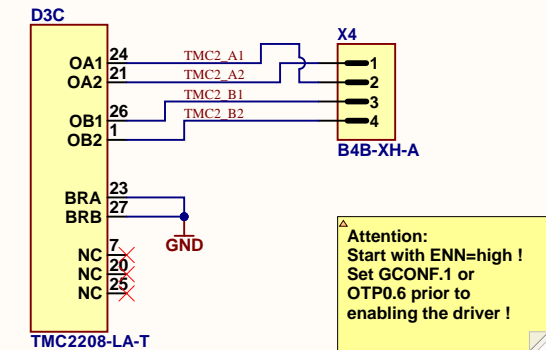
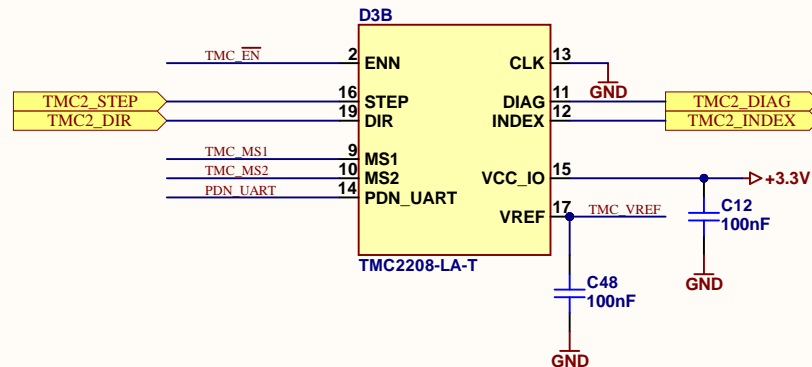
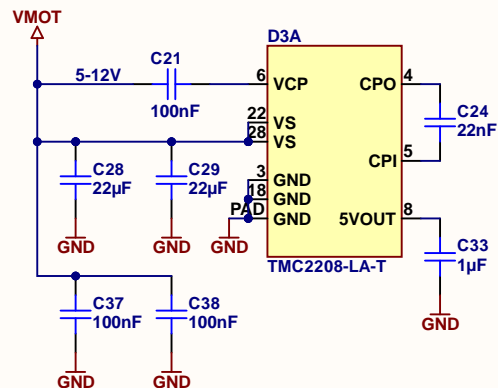
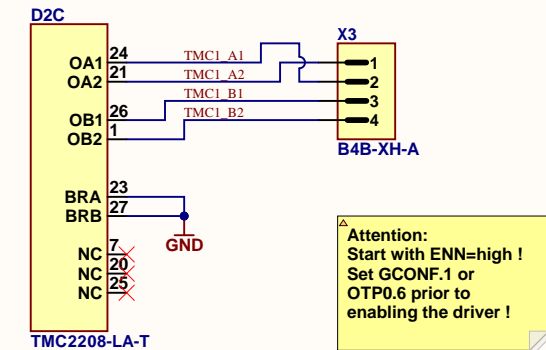
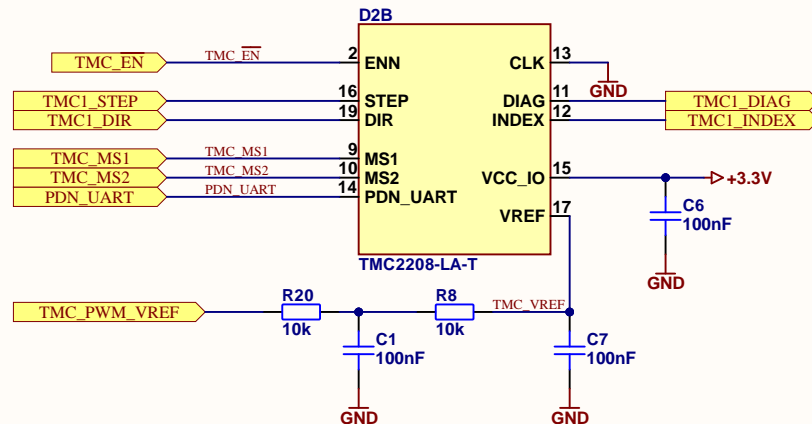
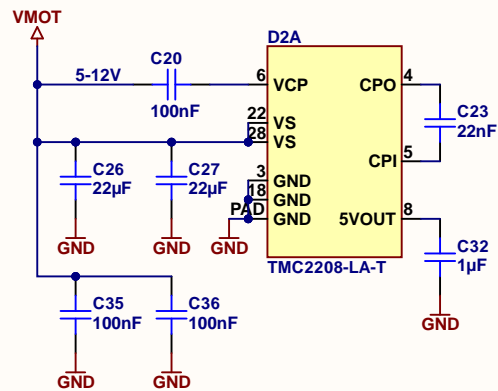


Booster off:
TMC has -5V
Supply

Booster on:
TMC have 12V
Supply

TMC miminum
Supply is
4.75V

Project: Startracker		
File name: Startracker_Power.SchDoc		
	Drawn by: L. Barbisch	Revision: DRAFT1
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Project: Startracker		
File name: Startracker_Stepper.SchDoc		
	Drawn by: L. Barbisch	Revision: DRAFT1
	Drawn date: dd.mm.yyyy	Page: 3 / 3