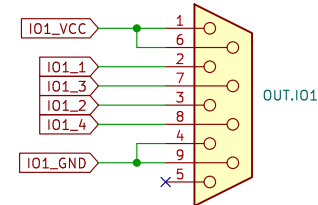
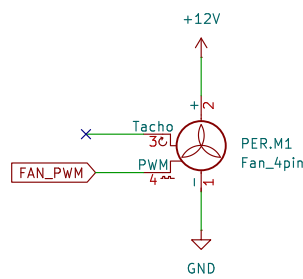
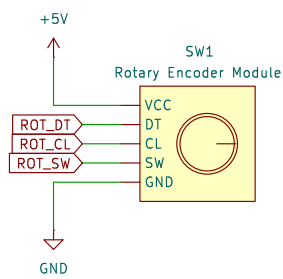
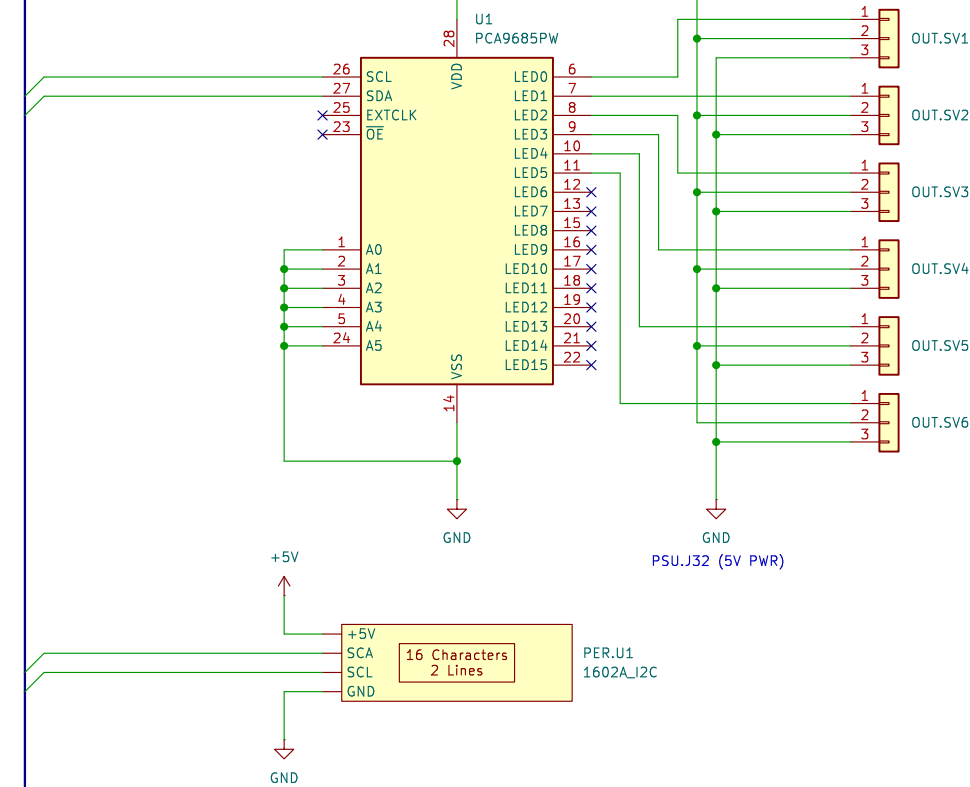
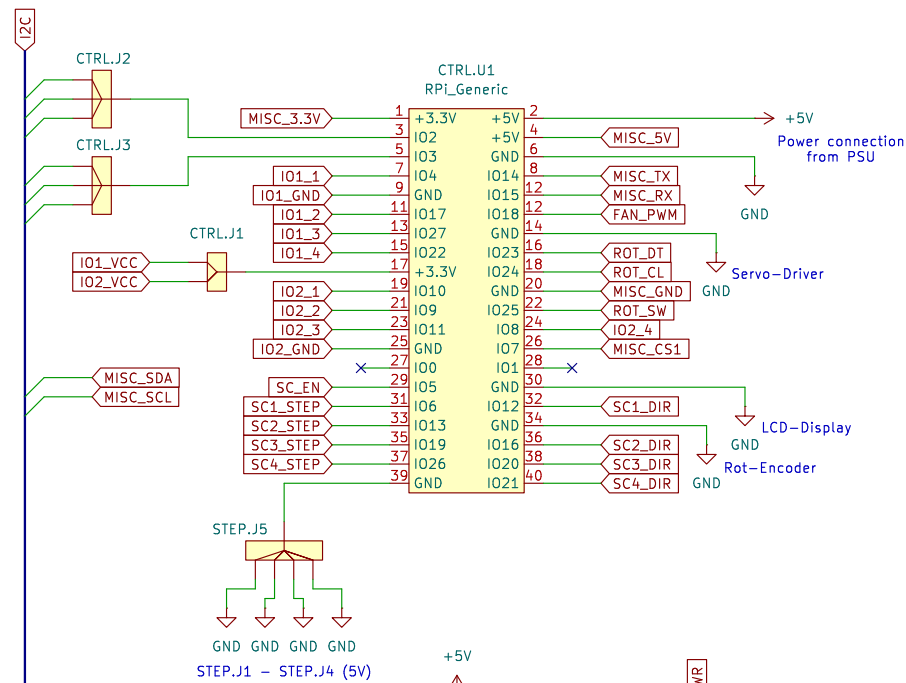


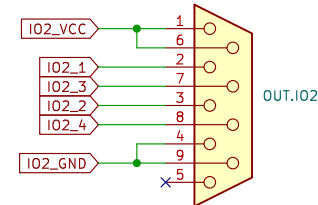
	STEP	DIR	EN
I	6	12	5
II	13	16	/
III	19	20	/
IV	26	21	/

The controller includes 3 high performance stepper drivers that can be calibrated for microstepping manually

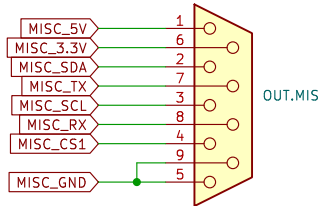
See the table for pin mappings to the RPI GPIOs



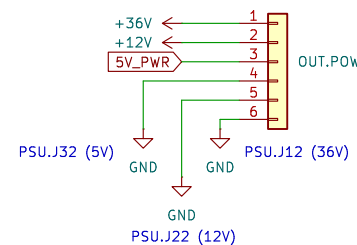
IO Plugs provide fast access to the RPi's GPIO pins with additional voltage and ground pins (Optimized for endstop-switches)



The MISC plug maps miscellaneous pins, busses and interfaces like I2C, UART and additions to OUT.IO2 SPI



Access to the controllers different power levels



IO2 - Special functions

PIN	RPI	Special
1	+3.3V	
2	10	MOSI
3	9	MISO
4	GND	
5	-	
6	+3.3V	
7	11	SCLK
8	8	CS
9	GND	

MISC - Special functions

PIN	RPI	Special
1	+5V	
2	2	SDA
3	3	SCL
4	7	CS1
5	GND	
6	3.3V	
7	14	TX
8	15	RX
9	GND	

400W
Universal Robot Driver
CornerLab

Sheet: /
File: RDX.kicad_sch

Title: RDX - Robot Driver Mk.X

Size: A3
KiCad E.D.A. 9.0.7

Date: 2026-02-15

Rev: 1.0.0
Id: 1/1