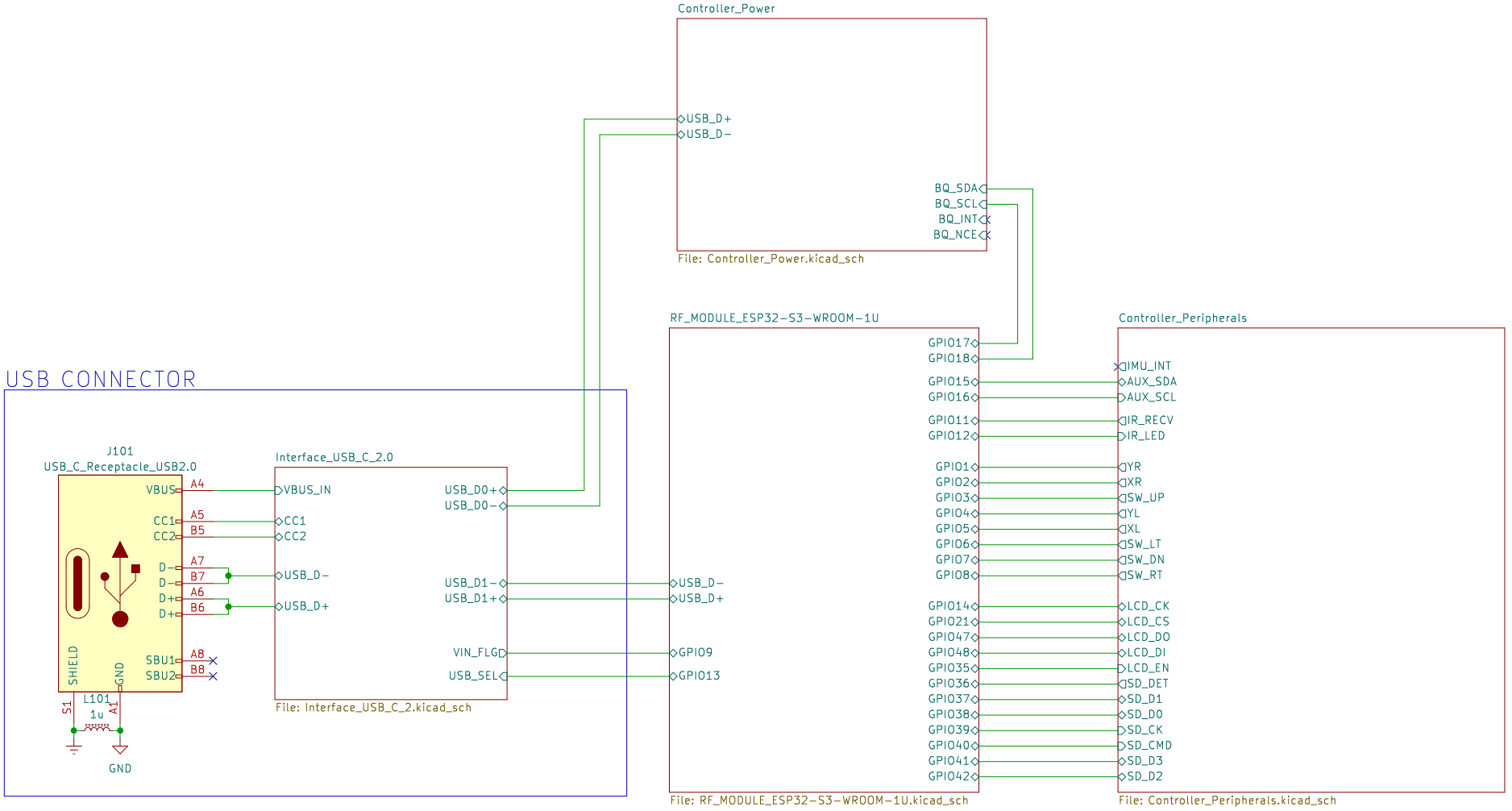

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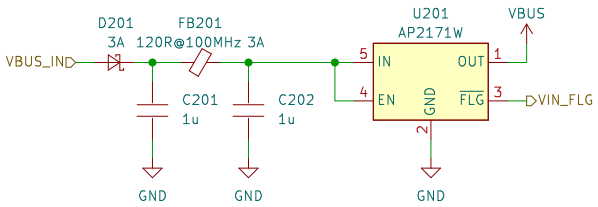
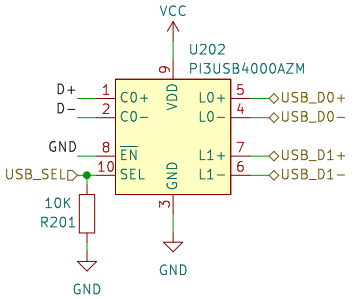
Title: Controller		
Size: A4	Date: 2023-10-05	Rev: 1.0
KiCad E.D.A. kicad (7.0.0)		Id: 1/5

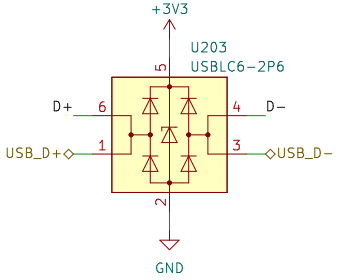
INPUT CURRENT LIMITING



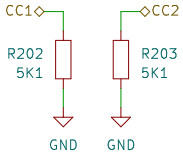
USB SWITCH



ESD PROTECTION



CONFIGURATION CHANNELS



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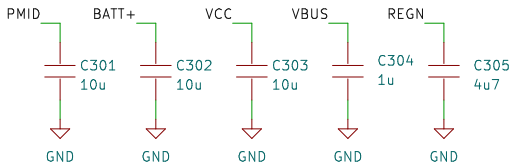
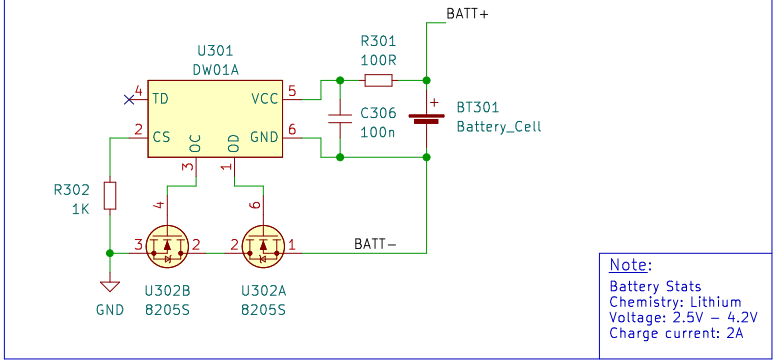
Size: A4	Date: 2023−10−05	Rev: 1.0
KiCad E.D.A. kicad (7.0.0)		Id: 2/5

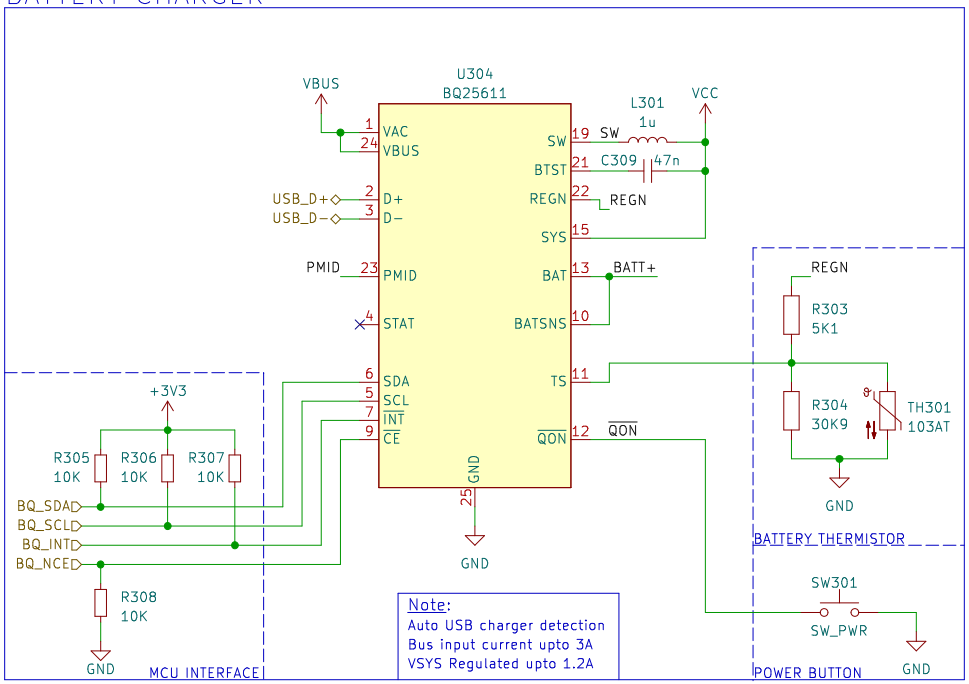
DECOUPLING CAPACITORS



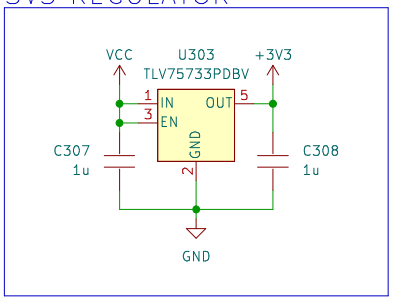
BATTERY PROTECTION



BATTERY CHARGER



3V3 REGULATOR



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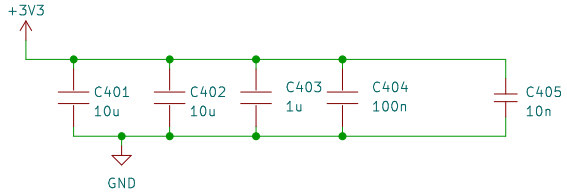
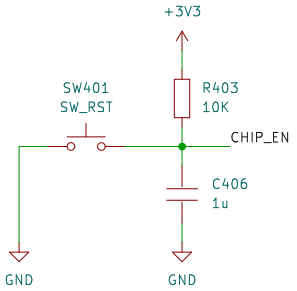
KiCad E.D.A. kicad (7.0.0)		Id: 3/5

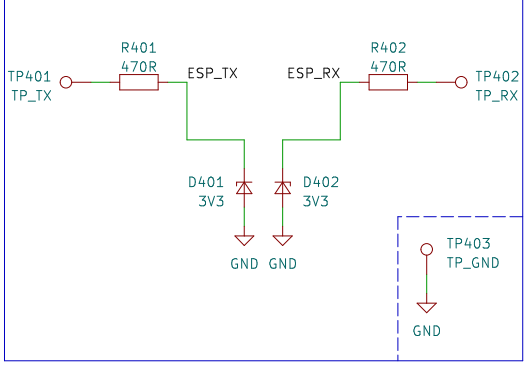
POWER & DECOUPLING



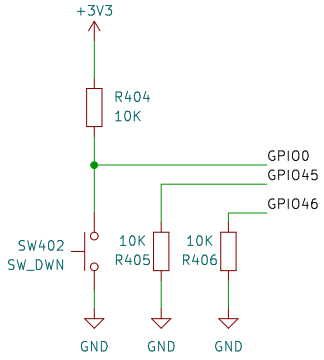
RESET CIRCUIT



UART PIN PROTECTION



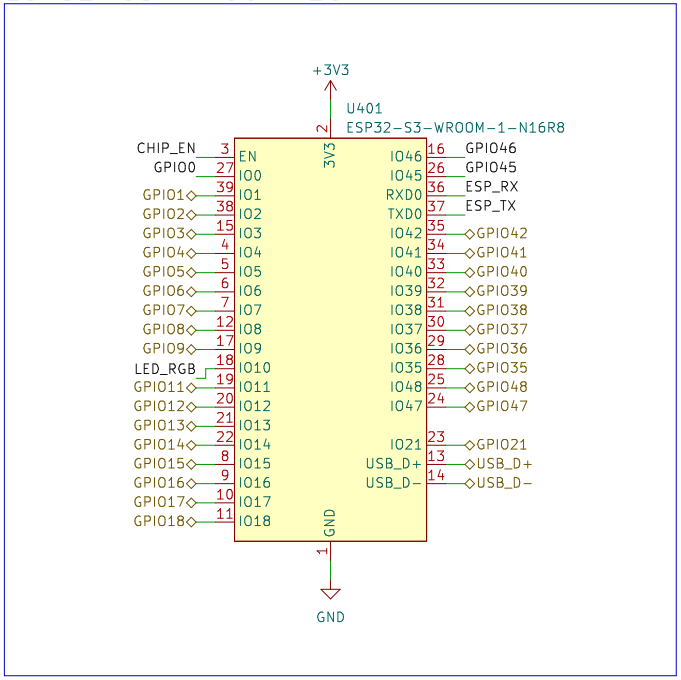
BOOT MODE STRAPPING



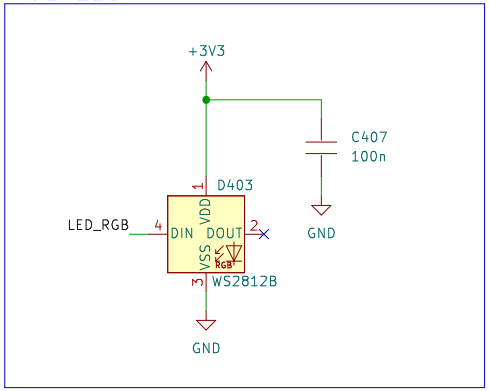
Boot Mode	GPIO0	GPIO46
Default Configuration	1 (Pull-up)	0 (Pull-down)
SPI Boot (default)	1	Any value
Download Boot	0	0
Invalid combination [1]	0	1

EFUSE_VDD_SPI_FORCE	GPIO45	eFuse [1]	Voltage	VDD_SPI power source [2]
0	0	Ignored	3.3 V	VDD3P3_RTC via R_{SPI}
	1		1.8 V	Flash Voltage Regulator
1	Ignored	0	1.8 V	Flash Voltage Regulator
		1	3.3 V	VDD3P3_RTC via R_{SPI}

ESP32-S3-WROOM-1U



RGB LED



sudo-junkie

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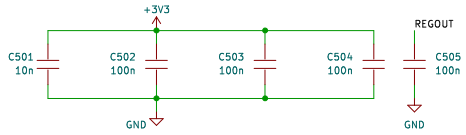
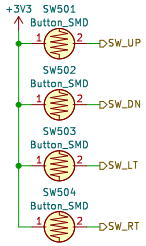
Title: Controller

Size: A4	Date: 2023-10-05	Rev: 1.0
KiCad E.D.A. kicad (7.0.0)		Id: 4/5

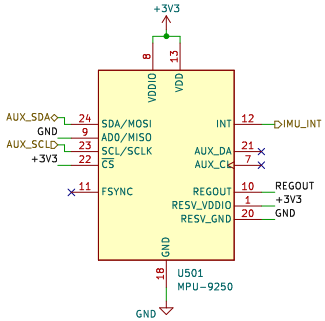
DECOUPLING CAPACITORS



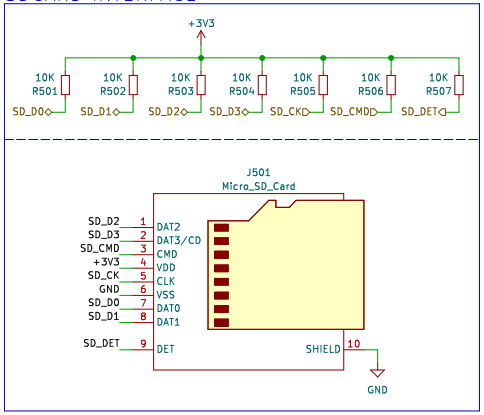
PRESSURE SENSITIVE BUTTONS



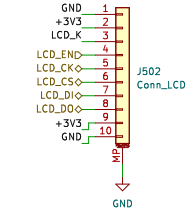
ACCEL + GYRO + MAGNETOMETER

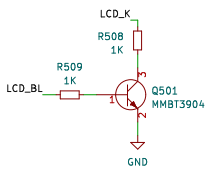


SDCARD INTERFACE

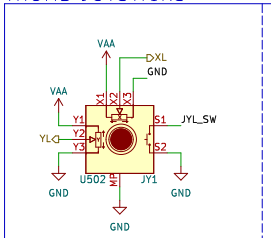


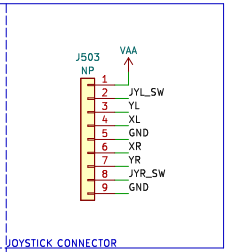
LCD CONNECTOR



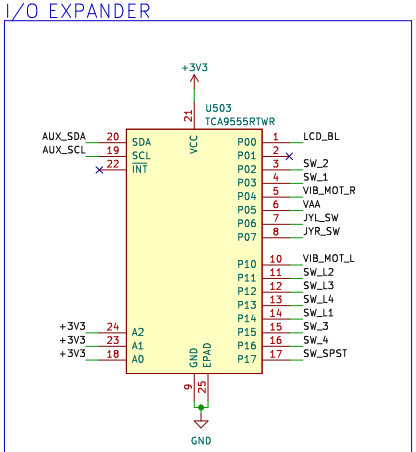


THUMB JOYSTICKS

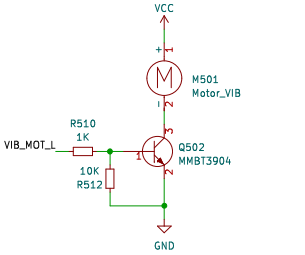


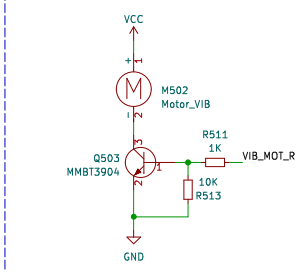


I/O EXPANDER

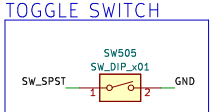


HAPTIC FEEDBACK

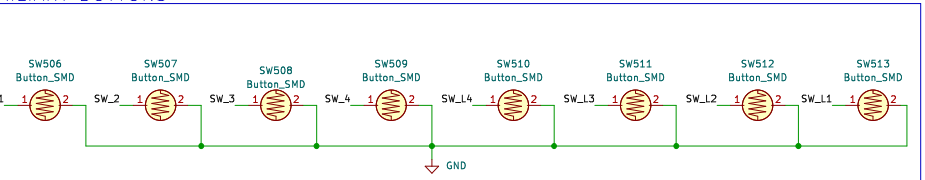




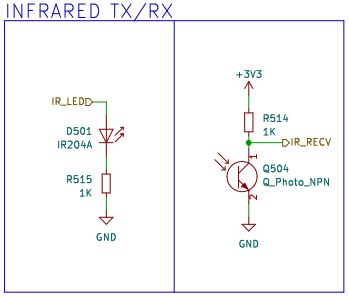
TOGGLE SWITCH



AUXILIARY BUTTONS



INFRARED TX/RX



sudo-junkie

Sheet:

File: Controller_Peripherals.kicad_sch

Title: Controller

Size: A3	Date: 2023-10-05	Rev: 1.0
KiCad E.D.A. kicad (7.0.0)		Id: 5/5