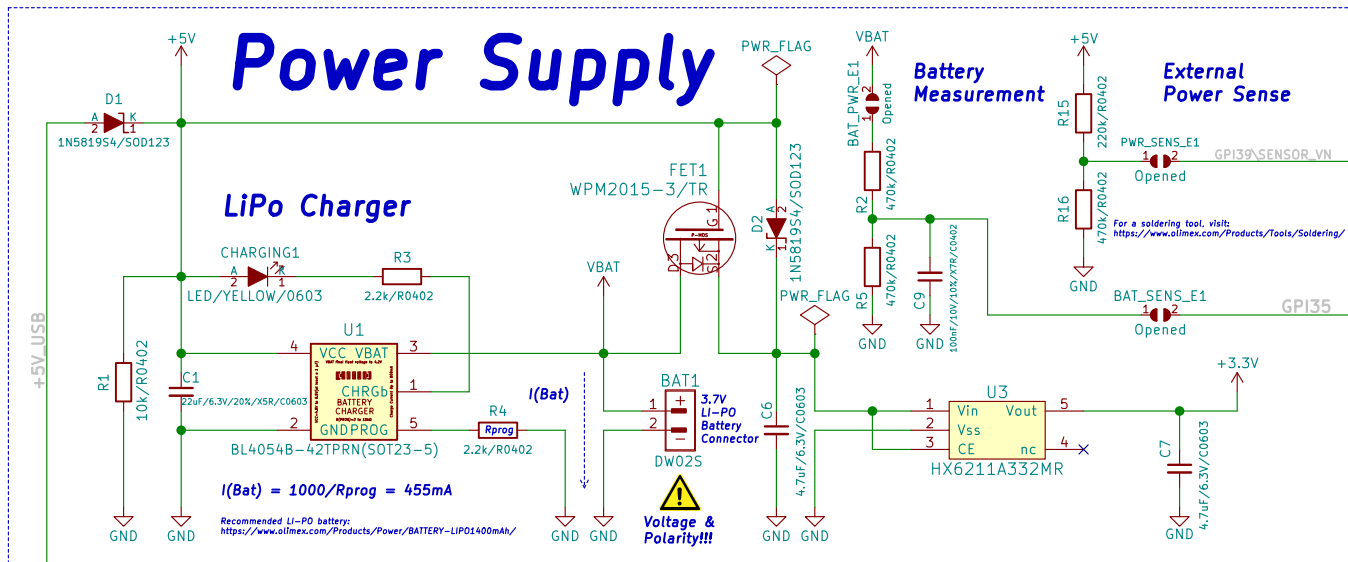
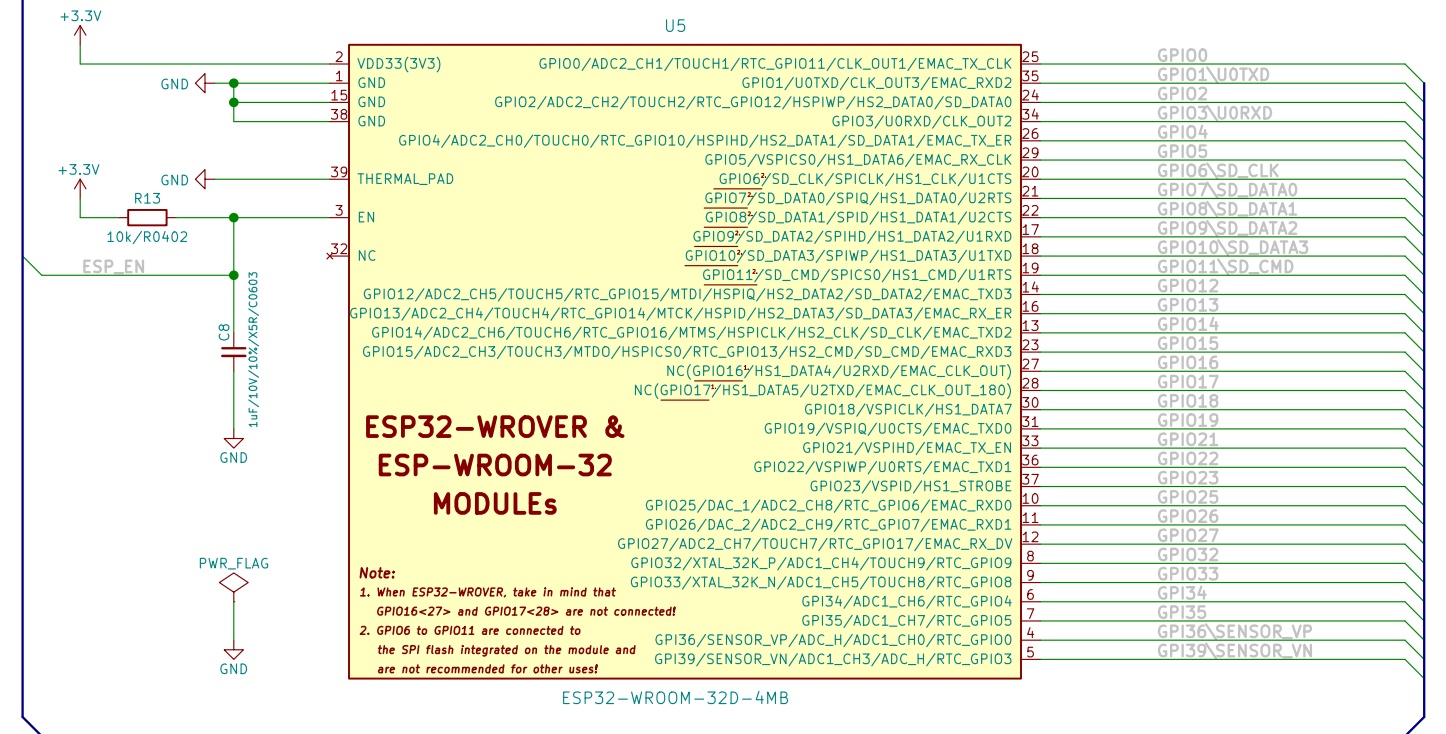


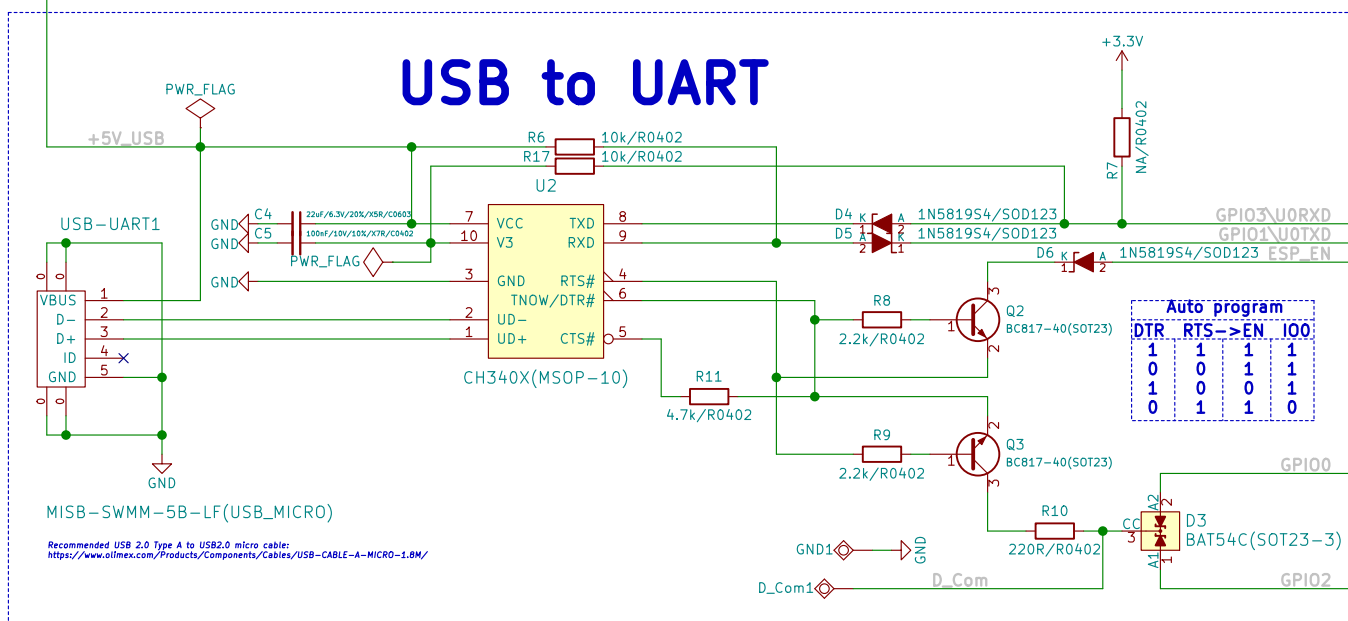
# Power Supply



# ESP32-WROOM-32x-xxx MODULE



# USB to UART



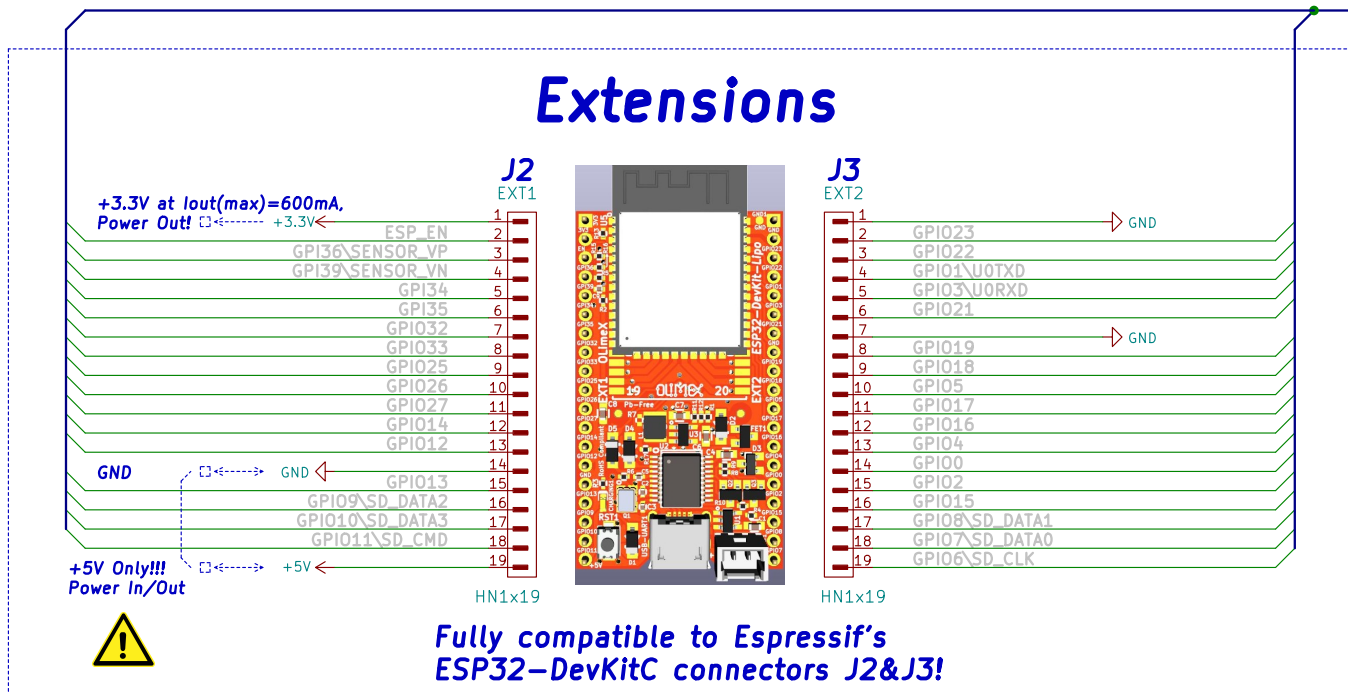
# Fiducials:



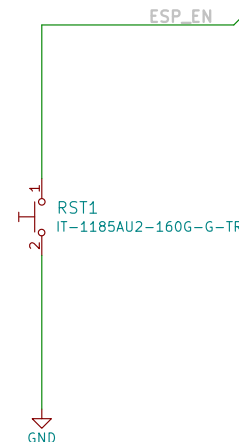
## Internal Bootstrapping Resistors

MTDI/GPIO12:	Pull-Down
GPIO0:	Pull-Up
GPIO2:	Pull-Down
GPIO4:	Pull-Down
MTD0/GPIO15:	Pull-Up
GPIO5:	Pull-Up

# Extensions



# Reset Button



## Software Selectable Pins

Interface	Signal	Pin
EMAC	EMAC_MDC_out	Any GPIO
	EMAC_MDIO_in	
	EMAC_MDO_out	
	EMAC_CRS_out	
I2C	EMAC_COL_out	Any GPIO
	I2C_EXT0_SCL_in	
	I2C_EXT0_SDA_in	
	I2C_EXT1_SCL_in	
	I2C_EXT1_SDA_in	
	I2C_EXT0_SCL_out	
	I2C_EXT0_SDA_out	
	I2C_EXT1_SCL_out	
General Purpose SPI	I2C_EXT1_SDA_out	Any GPIO
	HSPIQ_in/_out	
	HSPIQ_in/_out	
	HSPIQ_in/_out	
	HSPIQ_in/_out	
	HSPIQ_in/_out	
	HSPIQ_in/_out	
	HSPIQ_in/_out	
	HSPIQ_in/_out	
	HSPIQ_in/_out	

Voltage of Internal LDO(VDD,SDIO)			
Pin	Default	3.3V	1.8V
GPIO12/MTD0	Pull-Down	0	1
Bootstrapping Pins Settings			
Bootstrapping Mode			
Pin	Default	SPI Flash Boot	Download Boot
GPIO0	Pull-Up	1	0
GPIO2	Pull-Down	Don't-care	0
Debugging Log on UOTXD During Booting			
Pin	Default	UOTXD Tagging	UOTXD Silent
GPIO15/MTD0	Pull-Up	1	0
Timing of SDIO Slave			
Pin	Default	Falling-edge:Input	Rising-edge:Input
GPIO15/MTD0	Pull-Up	Falling-edge:Output	Rising-edge:Output
GPIO5	Pull-Up	0	1



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