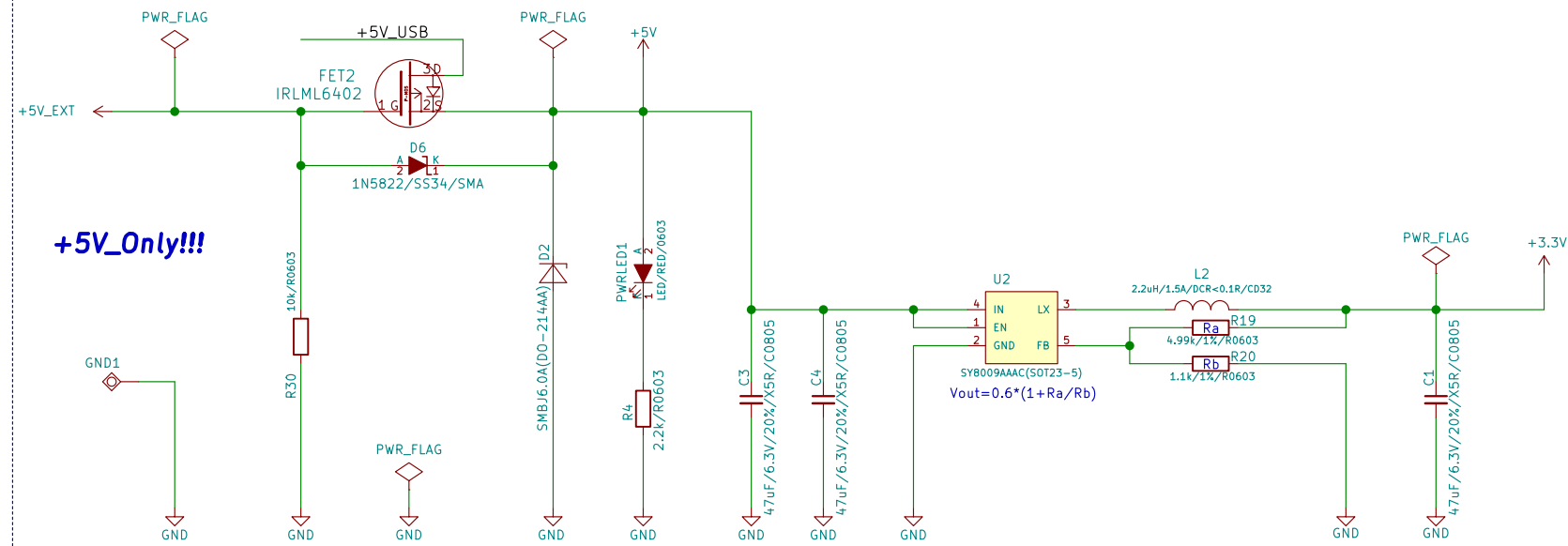
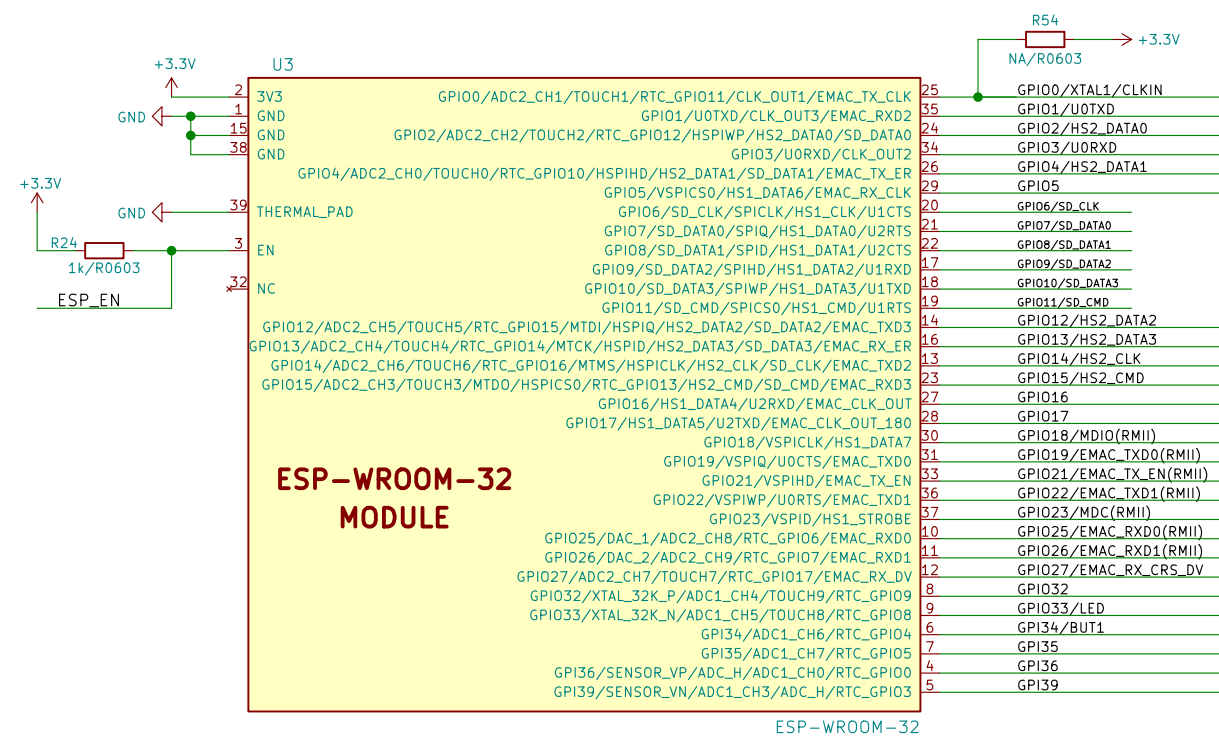


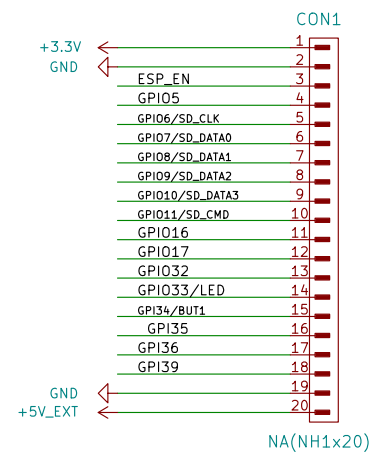
Power Supply



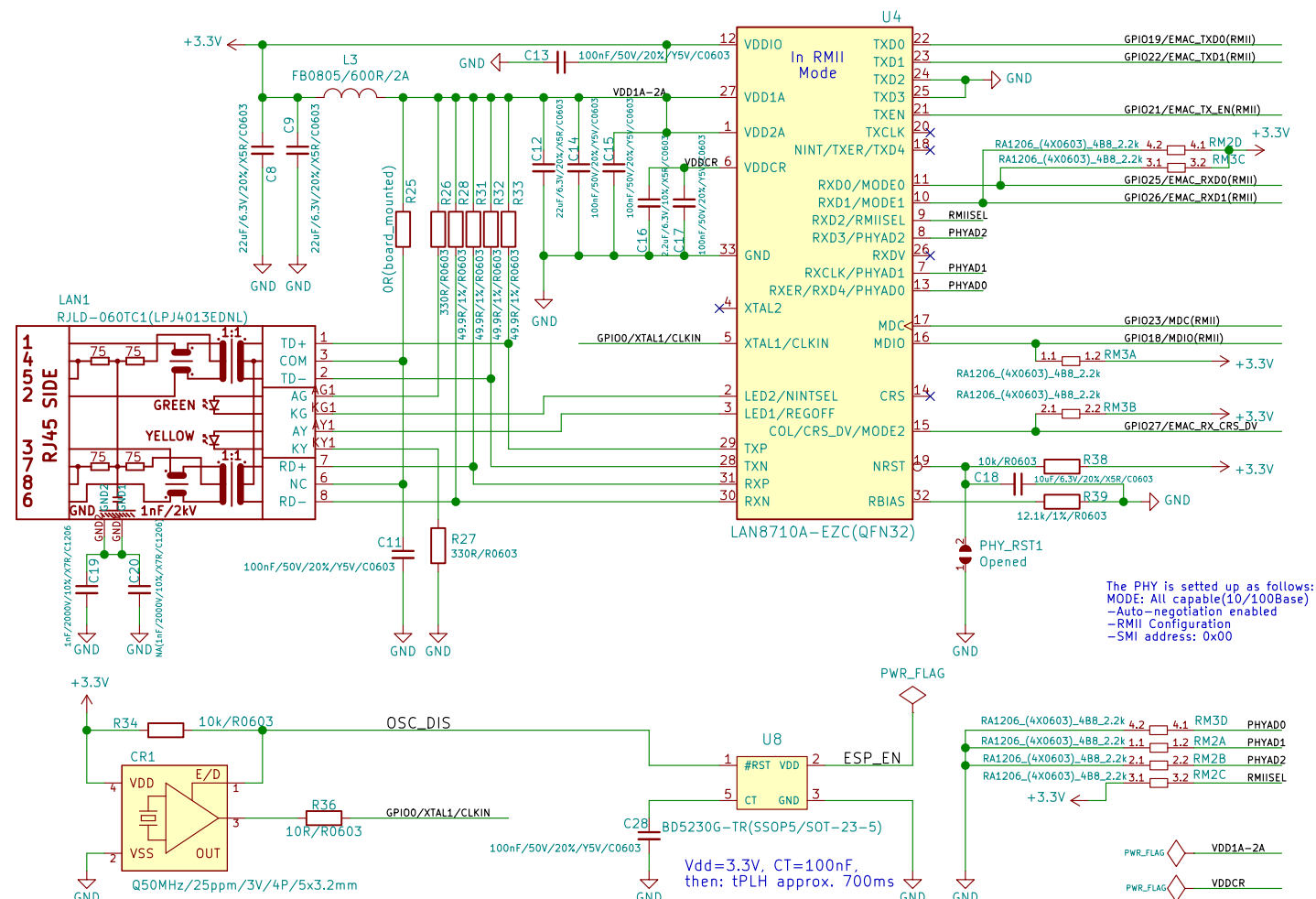
ESP-WROOM-32 MODULE



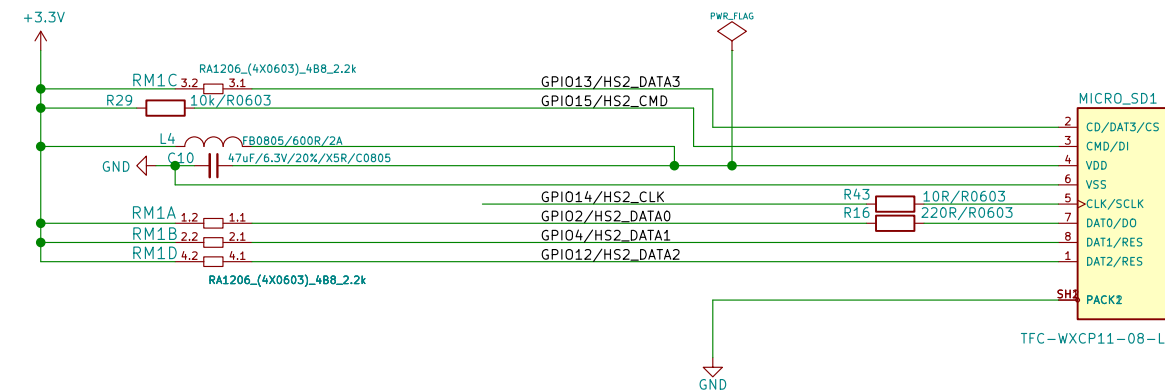
Extension



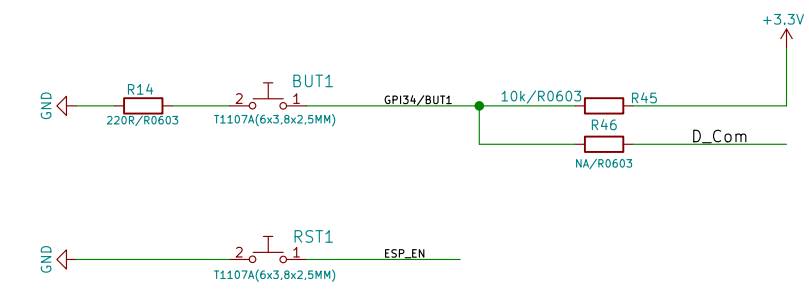
Ethernet



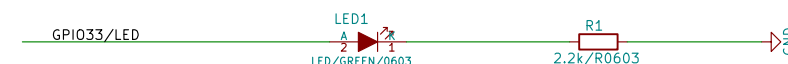
SD/MMC Card



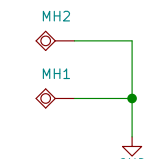
Buttons



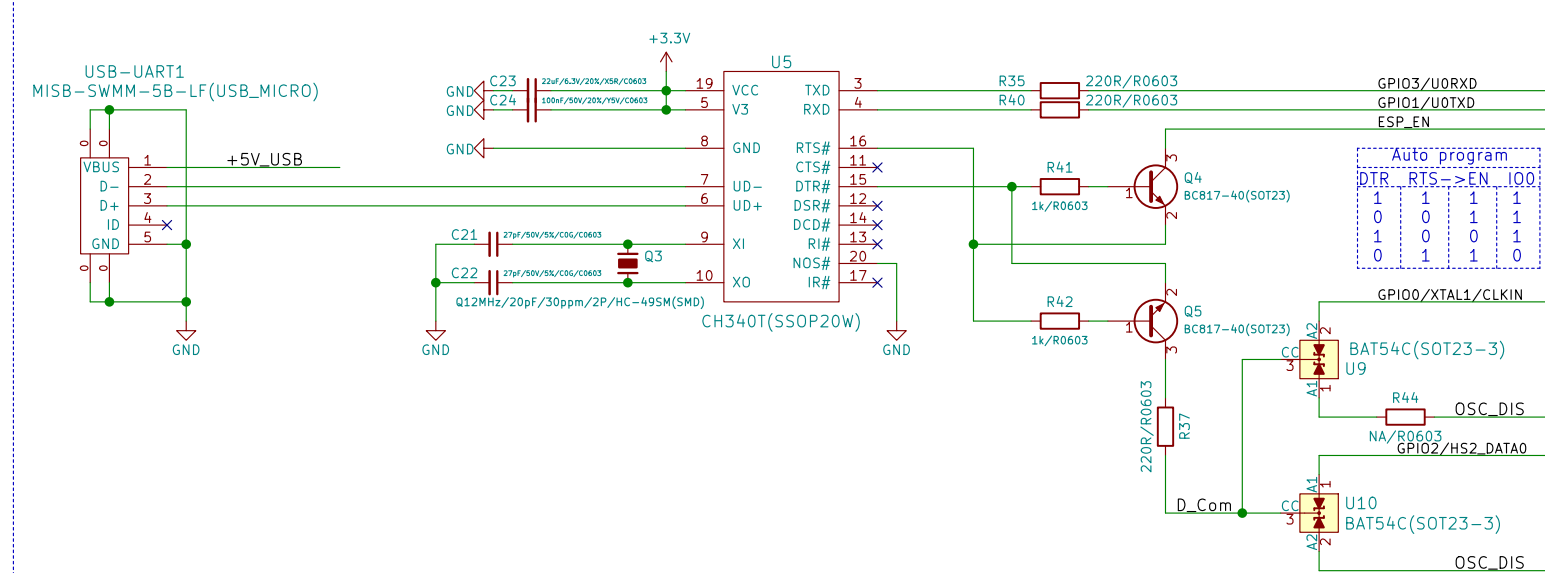
LED



Mounting Holes



USB to UART



Software Selectable Pins

Interface	Signal	Pin
EMAC	EMAC_WBC_out	Any GPIO
	EMAC_MDIO_in	
	EMAC_CRD_out	
	EMAC_COL_out	
I2C	I2CXT0_SCL_in	Any GPIO
	I2CXT0_SDA_in	
	I2CXT1_SCL_in	
	I2CXT1_SDA_in	
	I2CXT0_SCL_out	
	I2CXT0_SDA_out	
	I2CXT1_SCL_out	
	I2CXT1_SDA_out	
General Purpose SPI	HSPIQ_in/_out	Any GPIO
	HSPIB_in/_out	
	HSPICS1_in/_out	
	HSPICS2_in/_out	
	VSPIQ_in/_out	
	VSPIB_in/_out	
	VSPICS1_in/_out	
	VSPICS2_in/_out	
	VSPIQ_in/_out	
	VSPIB_in/_out	

Voltage of Internal LDO(VDD,SDIO)			
Pin	Default	3.3V	1.8V
GPIO12/MTDI	Pull-Down	0	1
Bootstrapping Pins Settings			
Bootstrapping Mode			
Pin	Default	SPI Flash Boot	Download Boot
GPIO0	Pull-Up	0	0
GPIO2	Pull-Up	0	0
Debugging Log on UOTXD During Booting			
Pin	Default	UOTXD Toggling	UOTXD Silent
GPIO15/MTDO	Pull-Up	1	0
Timing of SDIO Slave			
Pin	Default	Falling-edge/Output	Rising-edge/Output
GPIO15/MTDO	Pull-Up	0	0
GPIO5	Pull-Up	0	1

Internal Bootstrapping Resistors

MTDI/GPIO12:	Pull-Down
GPIO0:	Pull-Up
GPIO2:	Pull-Down
GPIO14:	Pull-Down
MTDO/GPIO15:	Pull-Up
GPIO5:	Pull-Up

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Title: ESP32-GATEWAY_Rev_A

Size: A2

Date:

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Rev:

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