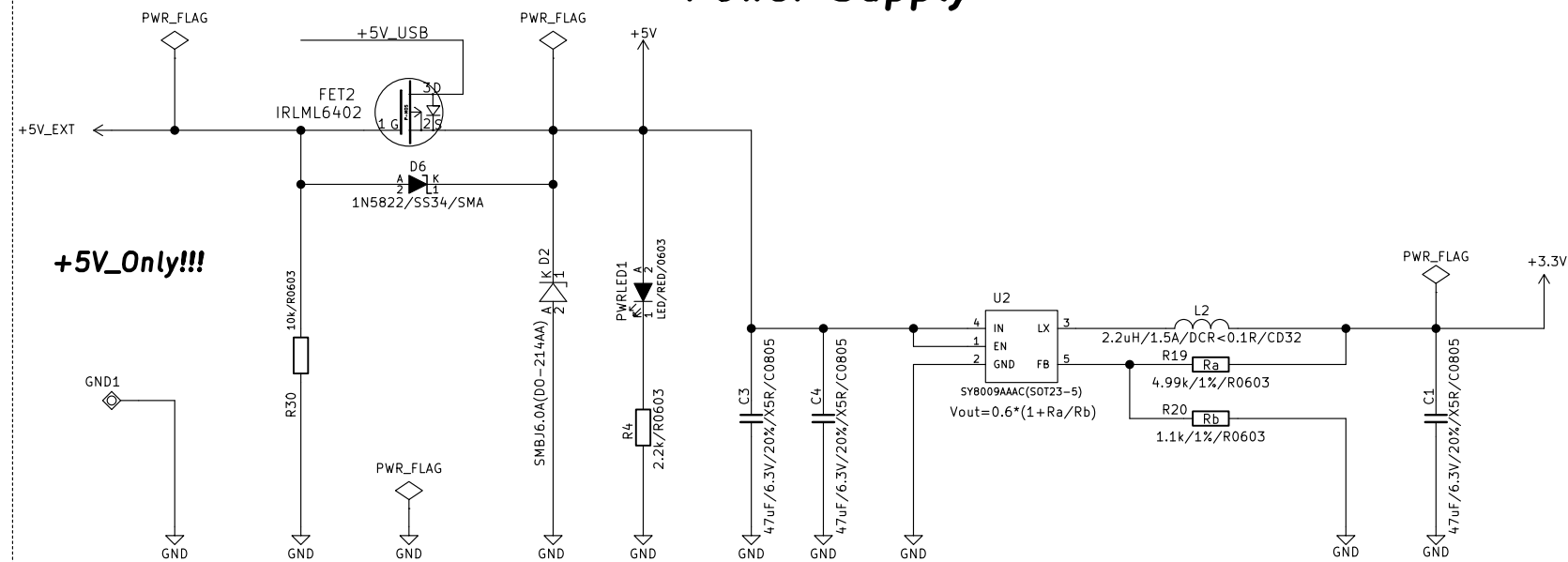
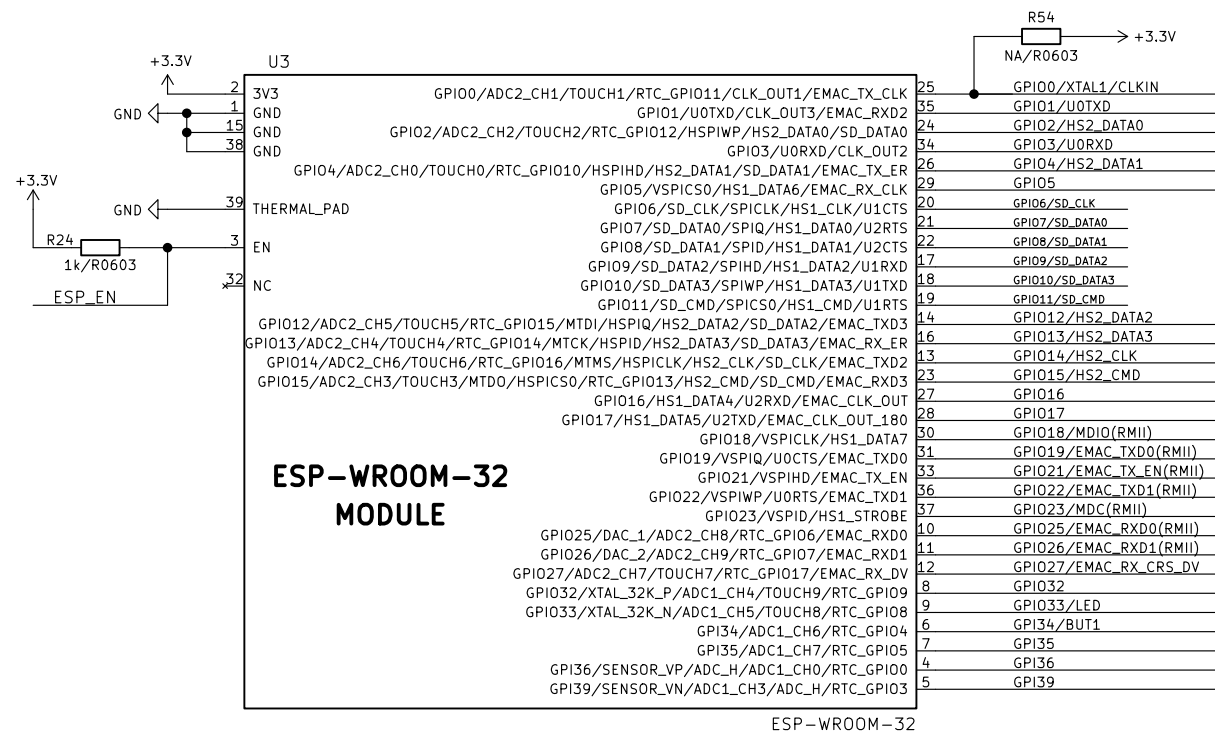


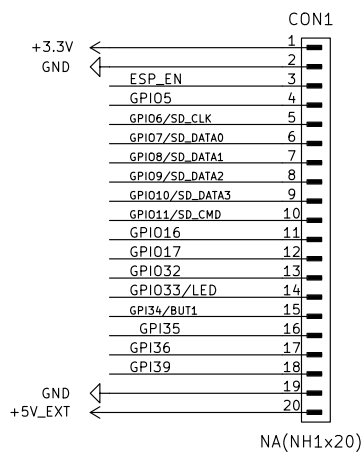
Power Supply



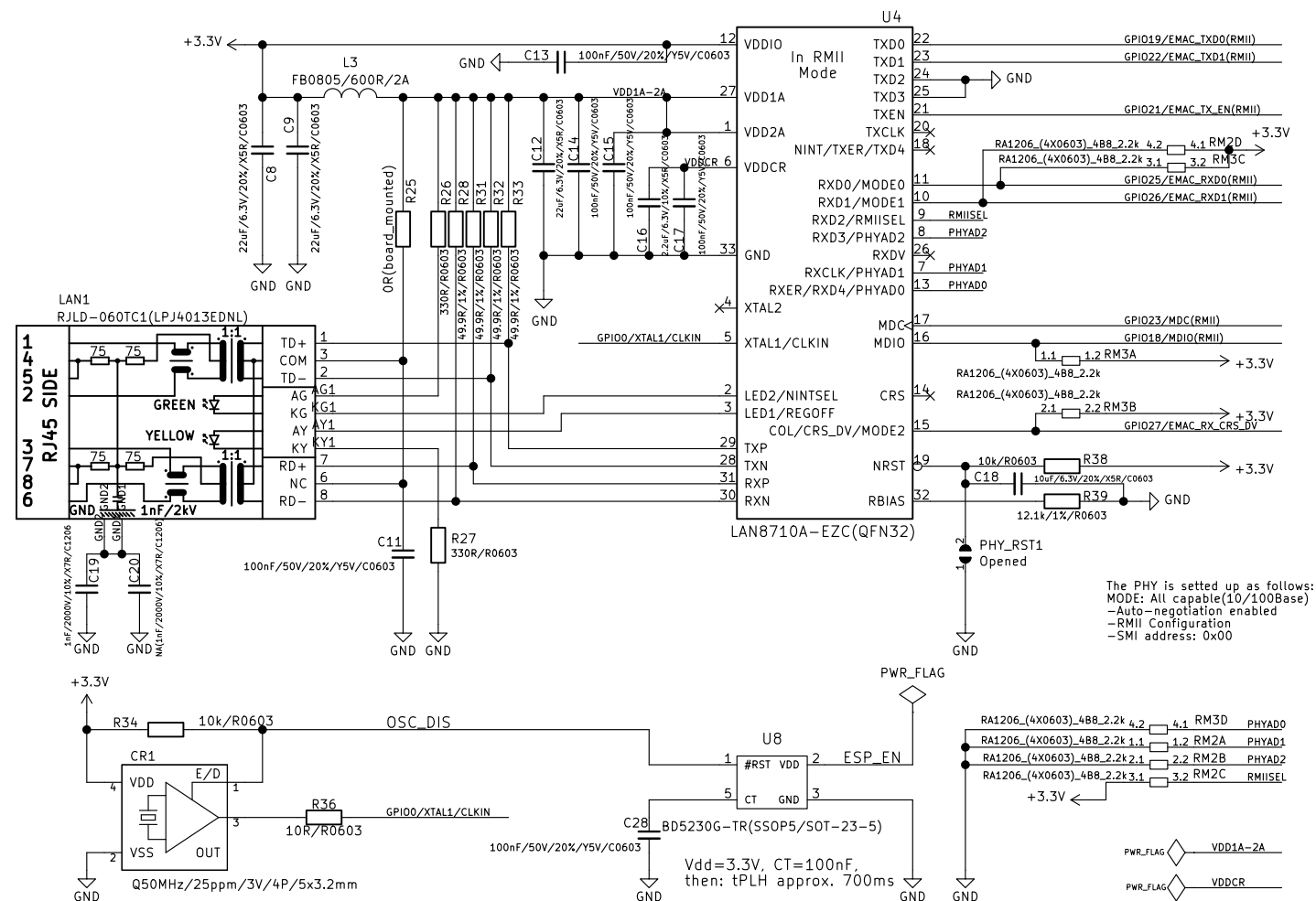
ESP-WROOM-32 MODULE



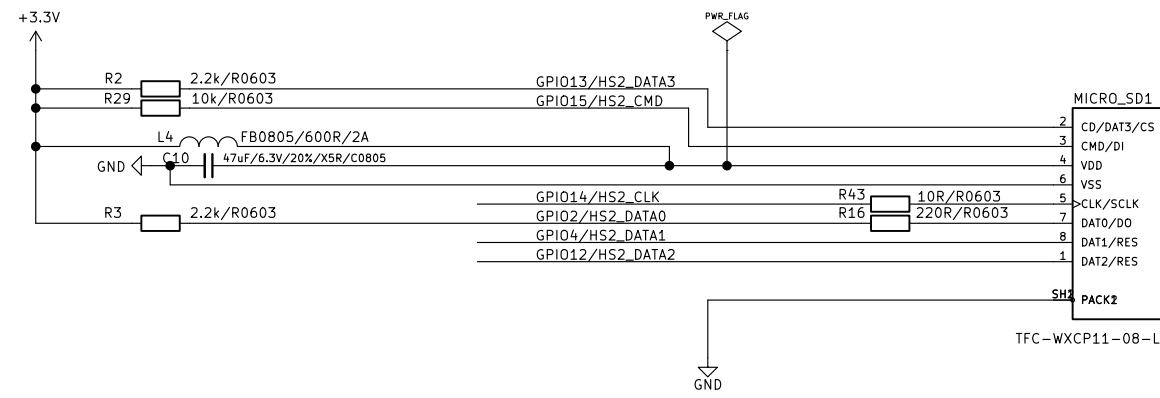
Extension



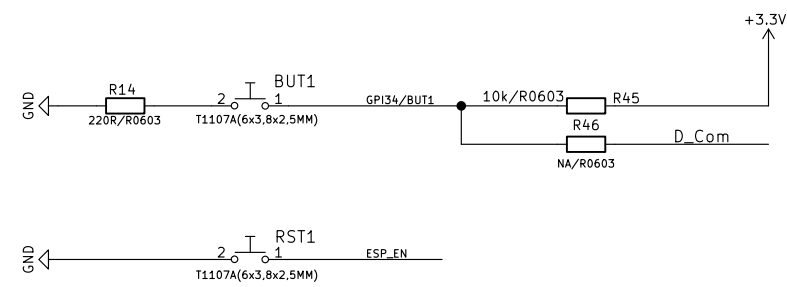
Ethernet



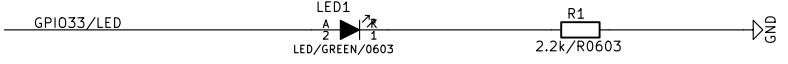
SD/MMC Card



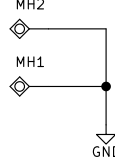
Buttons



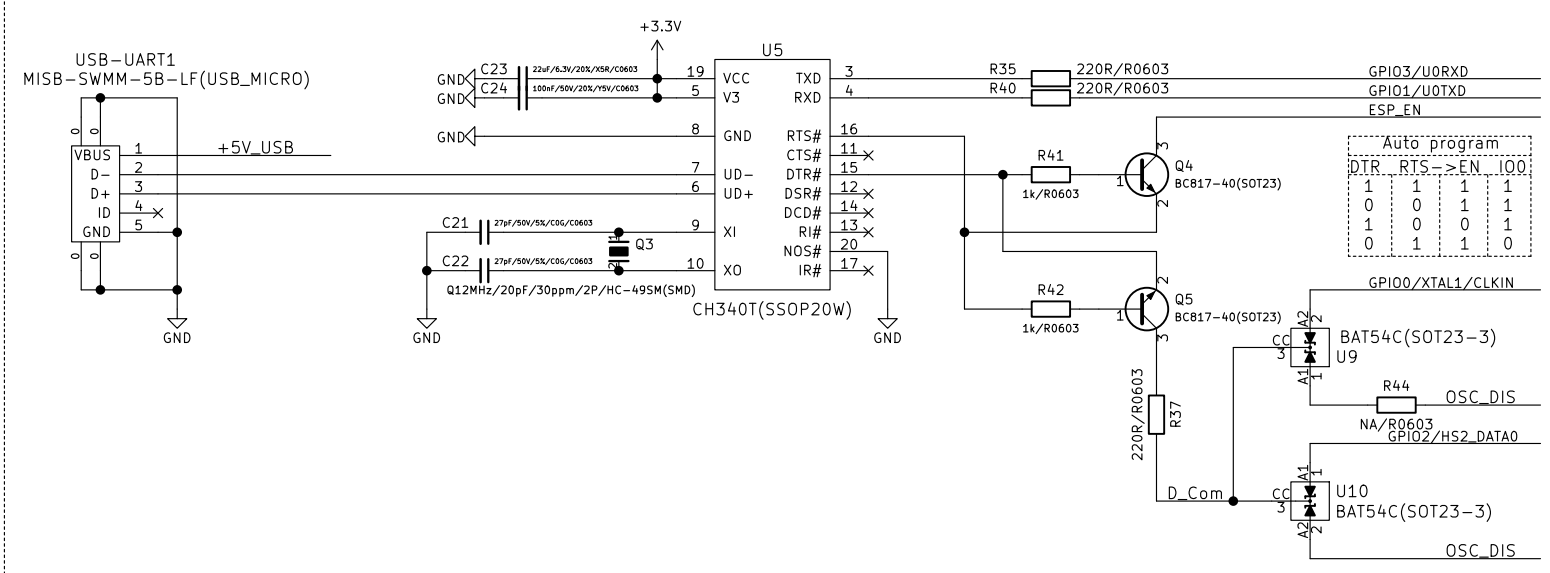
LED



Mounting Holes



USB to UART



Software Selectable Pins

Interface	Signal	Pin
EMAC	EMAC_MDIO_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	
General Purpose	HSPIQ_in_out	Any GPIO
	HSPIQ_in_out	
	HSPIQ_in_out	
	HSPIQ_in_out	

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

Internal Bootstrapping Resistors	
MTDI/GPIO12:	Pull-Down
GPIO0:	Pull-Up
GPIO2:	Pull-Down
MTDO/GPIO15:	Pull-Up
GPIO5:	Pull-Up