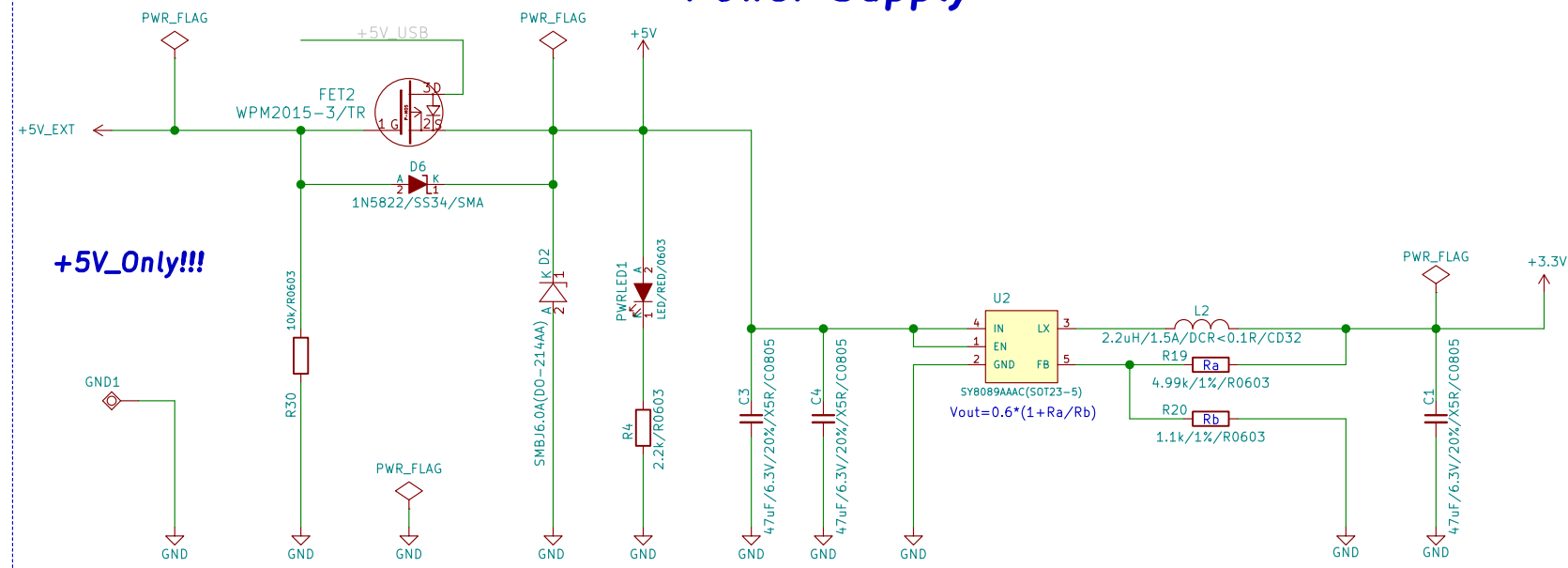


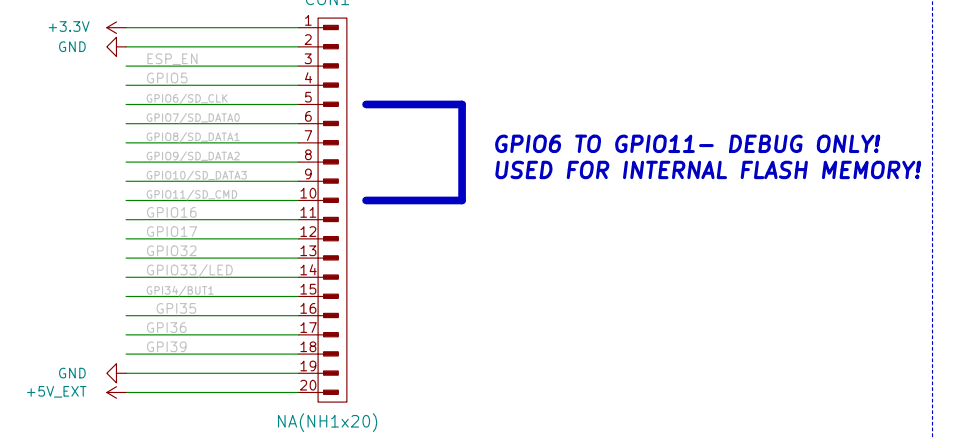
## Power Supply



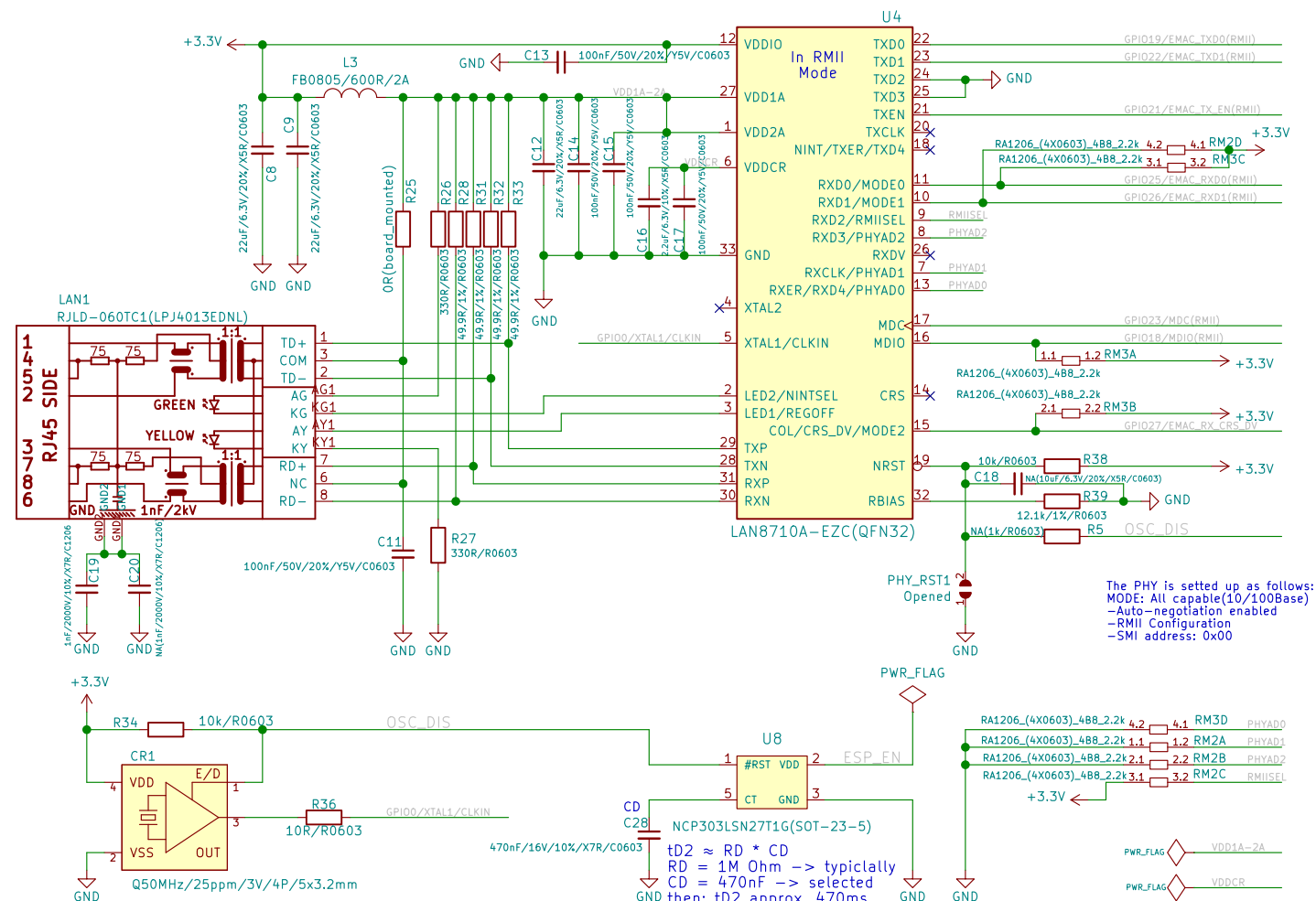
## ESP-WROOM-32 MODULE



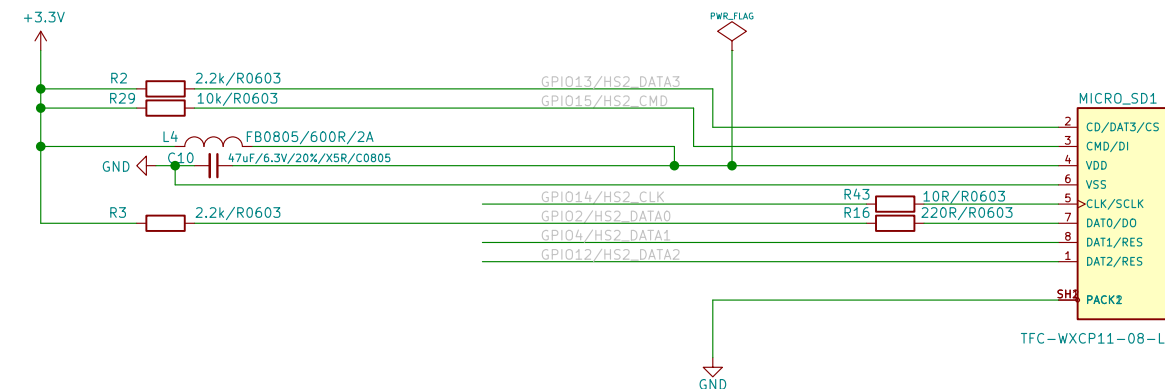
## Extension



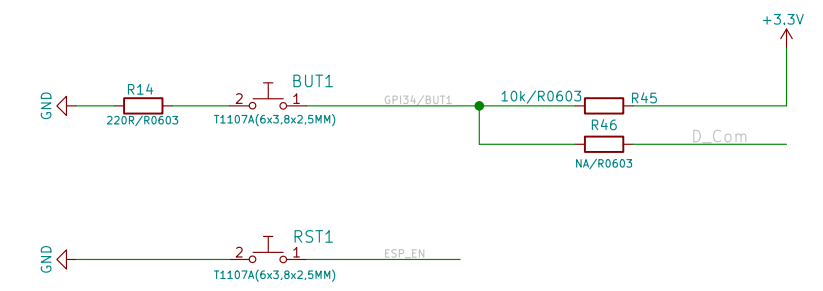
## Ethernet



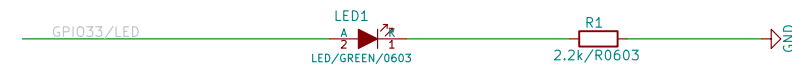
## SD/MMC Card



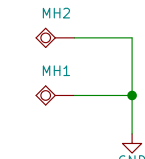
## Buttons



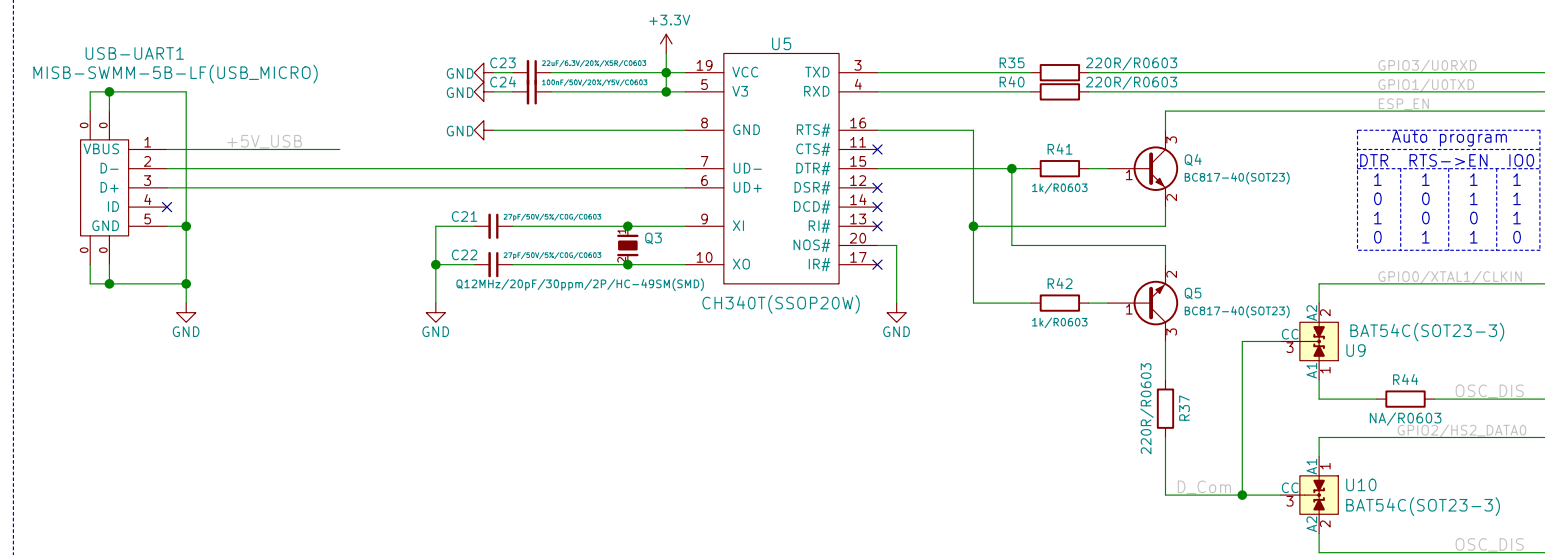
## LED



## Mounting Holes



## USB to UART



## Software Selectable Pins

Interface	Signal	Pin
EMAC	EMAC_WDOUT	Any GPIO
	EMAC_MDOUT	Any GPIO
	EMAC_CRSDOUT	Any GPIO
	EMAC_COLOUT	Any GPIO
I2C	I2CXT0_SCLIN	Any GPIO
	I2CXT0_SDAIN	Any GPIO
	I2CXT0_SCLOUT	Any GPIO
	I2CXT0_SDAOUT	Any GPIO
General Purpose SPI	HSPIQ_IN_OUT	Any GPIO
	HSPIQ_IN_OUT	Any GPIO
	HSPIQ_IN_OUT	Any GPIO
	HSPIQ_IN_OUT	Any GPIO

Voltage of Internal LDO(VDD,SDIO)			
Pin	Default	3.3V	1.8V
GPIO12/MTD0	0	1	1
Bootstrapping Mode			
Pin	Default	SPI Flash Boot	Download Boot
GPIO0	Pull-Up	0	1
GPIO2	Pull-Up	0	1
Debugging Log on UOTXD During Booting			
Pin	Default	UOTXD Toggling	UOTXD Silent
GPIO15/MTD0	Pull-Up	0	1
Timing of SDIO Slave			
Pin	Default	Falling-edgeOutput	Rising-edgeOutput
GPIO15/MTD0	Pull-Up	0	1
GPIO5	Pull-Up	0	1

## Internal Bootstrapping Resistors

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