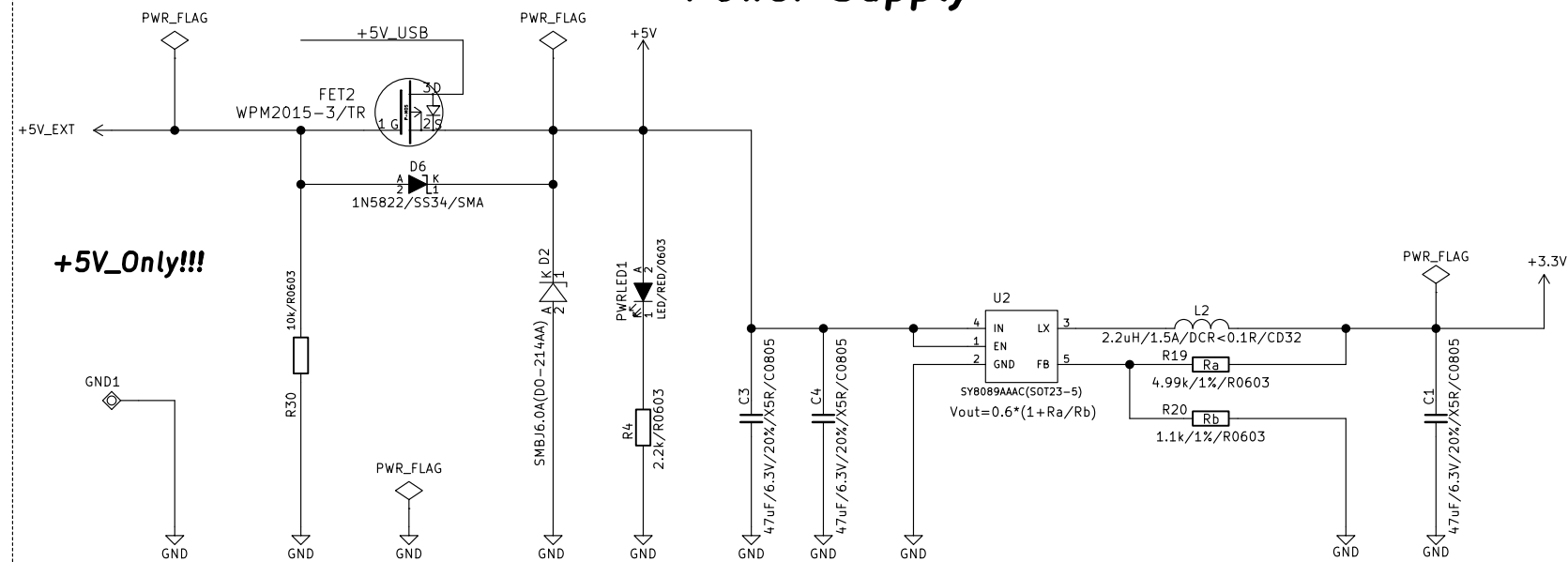
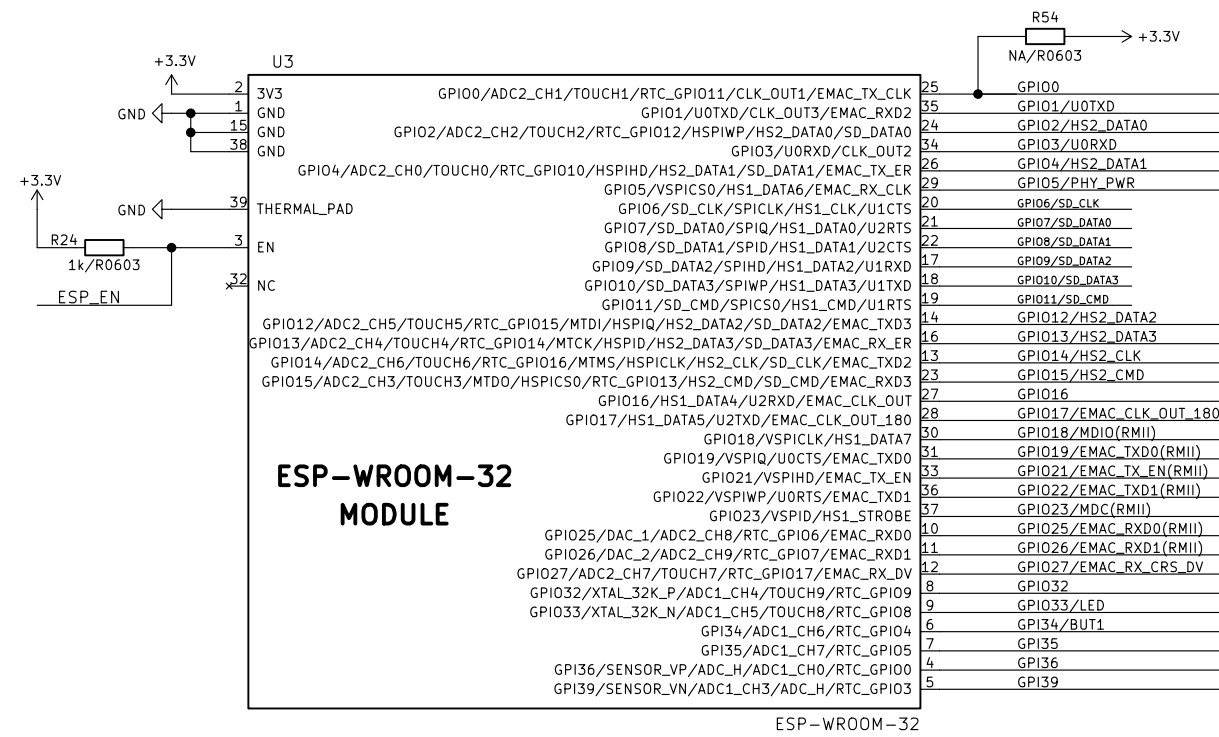


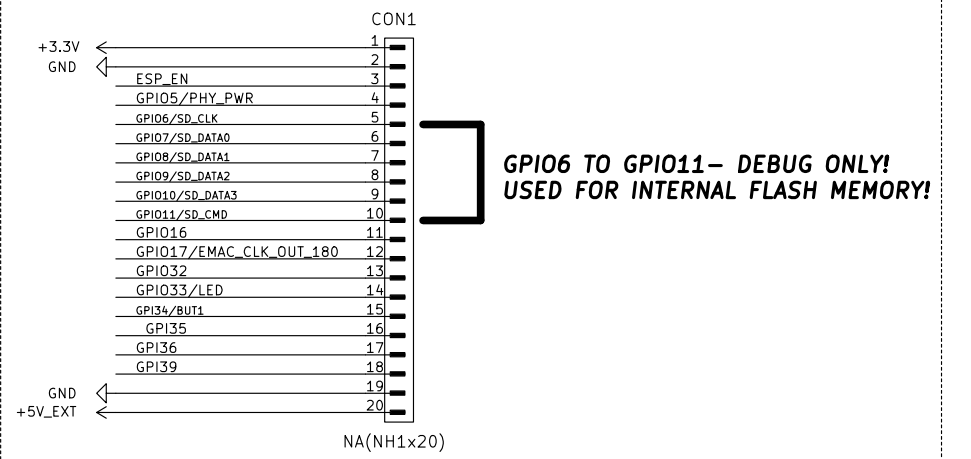
Power Supply



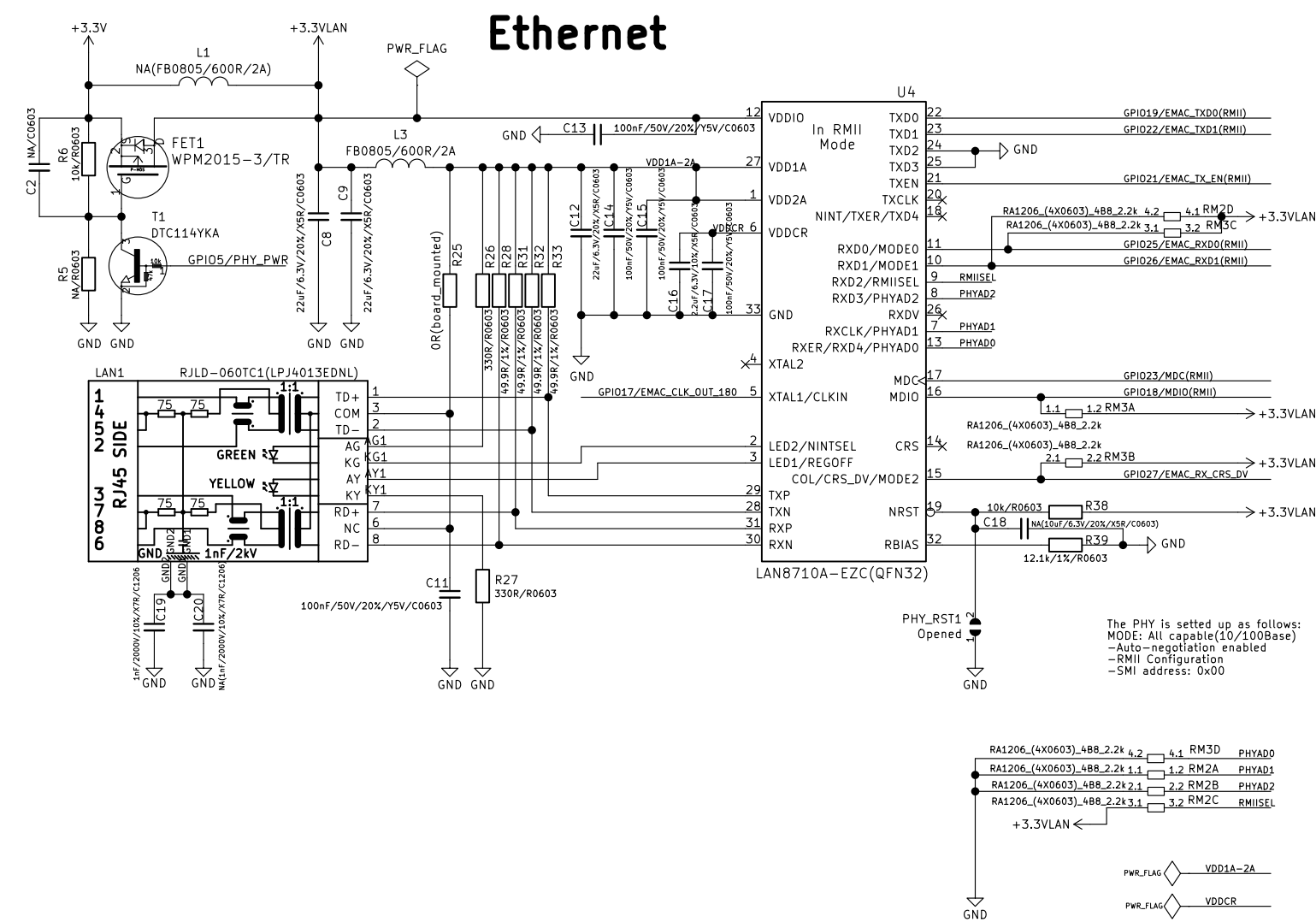
ESP-WROOM-32 MODULE



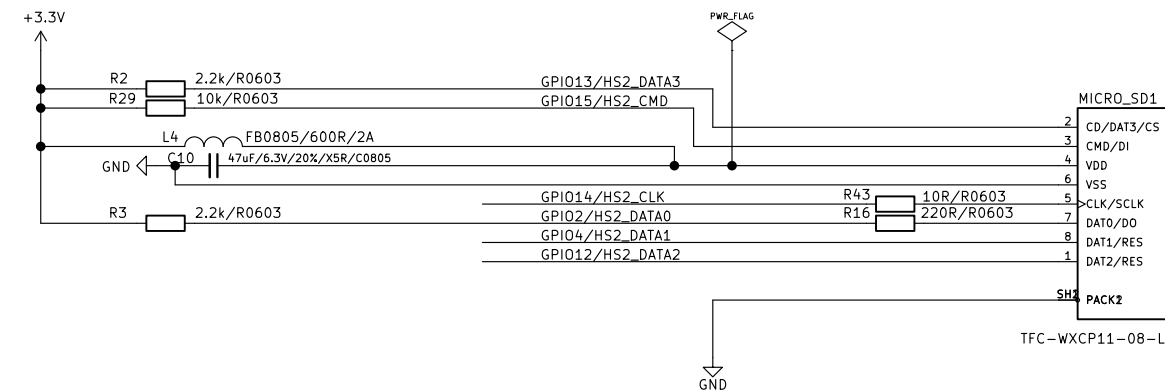
Extension



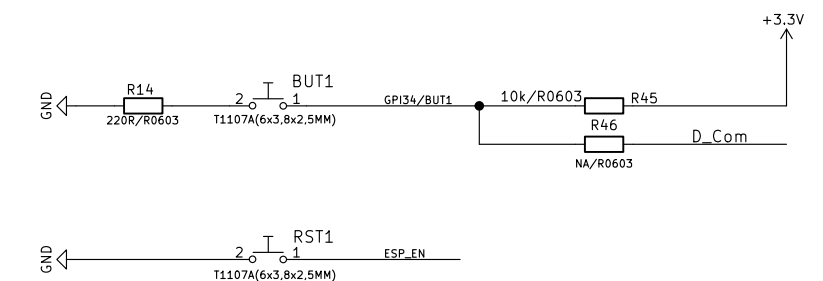
Ethernet



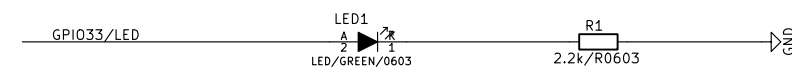
SD/MMC Card



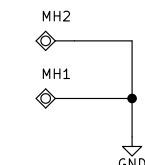
Buttons



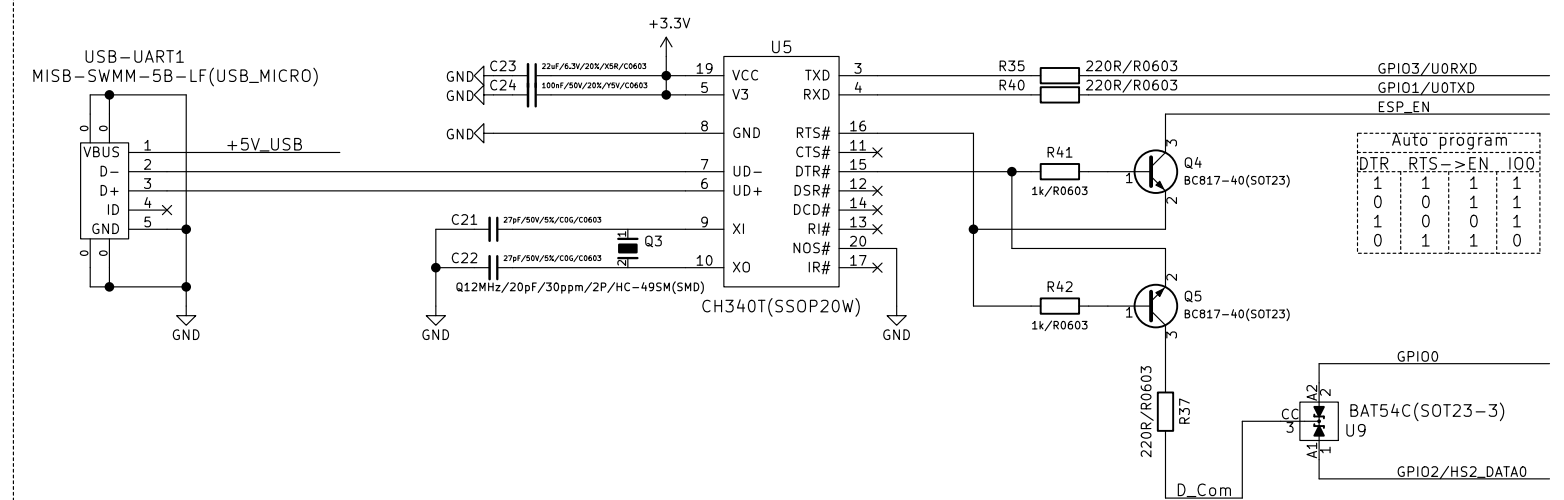
LED



Mounting Holes



USB to UART



Software Selectable Pins

Interface	Signal	Pin
EMAC	EMAC_MDIO_out	Any GPIO
	EMAC_MDIO_in	Any GPIO
	EMAC_CRD_out	Any GPIO
	EMAC_CRD_in	Any GPIO
I2C	I2C_SCL_in	Any GPIO
	I2C_SDA_in	Any GPIO
	I2C_SCL_out	Any GPIO
	I2C_SDA_out	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	Pull-Down	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/MTD0	Pull-Up	1	0
Timing of SDIO Slave			
Pin	Default	Falling-edgeOutput	Rising-edgeOutput
GPIO15/MTD0	Pull-Up	0	0
GPIO15/PHY_PWR	Pull-Up	0	1

Internal Bootstrapping Resistors	
MTD0/GPIO12:	Pull-Down
GPIO0:	Pull-Up
GPIO2:	Pull-Down
GPIO4:	Pull-Down
MTD0/GPIO15:	Pull-Up
GPIO15/PHY_PWR:	Pull-Up

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Sheet: /
File: ESP32-GATEWAY_Rev_D.sch

Title: ESP32-GATEWAY

Size: A2 Date: 2018-05-09

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