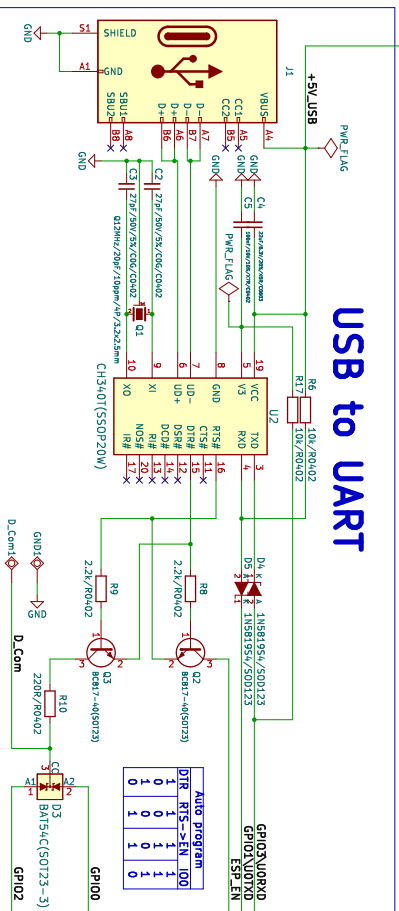
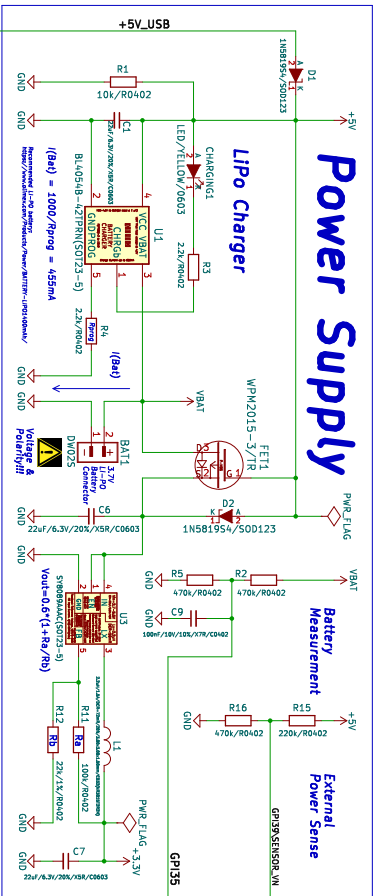
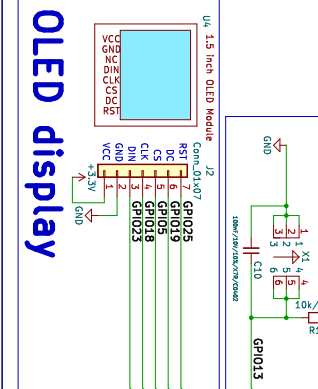
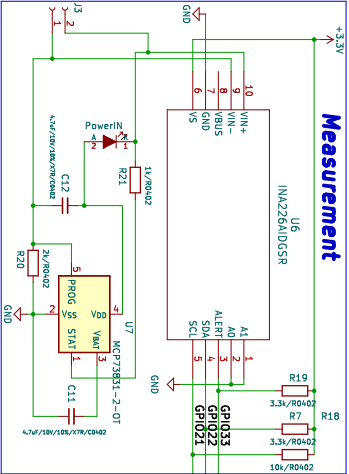
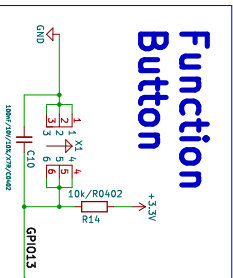


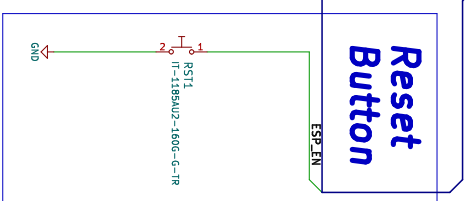
## External Power Sense



## Function Button



GP105:	Pull-Up
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Software Selectable Pins		
Interface	Signal	Pin

EMAC	Any GPIO
EMAC_MDIO.in EMAC_CRS.out EMAC_COL.out	
I2C	Any GPIO
I2CEXT0_SCL.in I2CEXT0_SDA.in I2CEXT1_SCL.in I2CEXT1_SDA.in I2CEXT0_SCL.out I2CEXT0_SDA.out I2CEXT1_SCL.out I2CEXT1_SDA.out	

HSPID_in/out	HSPID_in/out
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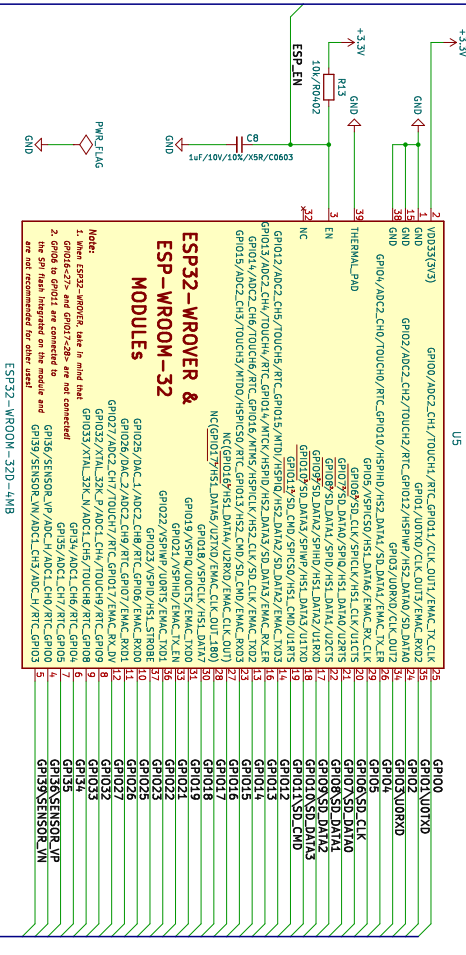
General Purpose SPI	Any GPIO
HSPICLK <sub>in/out</sub> HSPICSS0 <sub>in/out</sub> HSPICCS1 <sub>out</sub> HSPICSZ <sub>out</sub> VSPIDQ <sub>in/out</sub> VSPIIO <sub>in/out</sub> VSPICLK <sub>in/out</sub> VSPICSS0 <sub>in/out</sub> VSPICCS1 <sub>out</sub> VSPICSZ <sub>out</sub>	

For more information refer to [esd\\_wroom\\_32\\_datasheet\\_en.pdf](#).

Internal Bootstrapping Resistors	
MTD/GPIO12:	Pull-Down
GPIO0:	Pull-Up
GPIO2:	Pull-Up
GPIO4:	Pull-Down
MTDO/GPIO15:	Pull-Up
GPIO5:	Pull-Up

Bootstrapping Pins Settings	
1.8V	
1	
Mode	
Download Boot	
0	
0	

		Waiting of Interval (00:00:50)		Bootslipping Pins Settings	
Pins	Default	Pin-Down	1.4V		
07012/0710		Bootslipping Mode			
Pins	Default	SP Firm Boot	Downward Boot		
07010		1			
07013		Boot-1 case	0		
Bootslipping test on 07010 during Bootsling					
07015/07100	Default	07010 Spinning	07010 Spinning		
	Pin-Down	Timing of SIO Slave			
Pins	Default	Pin-Up	Pin-Up	Pin-Up	Pin-Up
07016/0710		Pin-Up	Pin-Up	Pin-Up	Pin-Up
07017/0710		Pin-Up	Pin-Up	Pin-Up	Pin-Up
07018/0710		Pin-Up	Pin-Up	Pin-Up	Pin-Up
07019/0710		Pin-Up	Pin-Up	Pin-Up	Pin-Up
07020/0710		Pin-Up	Pin-Up	Pin-Up	Pin-Up
07021/0710		Pin-Up	Pin-Up	Pin-Up	Pin-Up
07022/0710		Pin-Up	Pin-Up	Pin-Up	Pin-Up
07023/0710		Pin-Up	Pin-Up	Pin-Up	Pin-Up
07024/0710		Pin-Up	Pin-Up	Pin-Up	Pin-Up
07025/0710		Pin-Up	Pin-Up	Pin-Up	Pin-Up
07026/0710		Pin-Up	Pin-Up	Pin-Up	Pin-Up
07027/0710		Pin-Up	Pin-Up	Pin-Up	Pin-Up
07028/0710		Pin-Up	Pin-Up	Pin-Up	Pin-Up
07029/0710		Pin-Up	Pin-Up	Pin-Up	Pin-Up
07030/0710		Pin-Up	Pin-Up	Pin-Up	Pin-Up
07031/0710		Pin-Up	Pin-Up	Pin-Up	Pin-Up
07032/0710		Pin-Up	Pin-Up	Pin-Up	Pin-Up
07033/0710		Pin-Up	Pin-Up	Pin-Up	Pin-Up
07034/0710		Pin-Up	Pin-Up	Pin-Up	Pin-Up
07035/0710		Pin-Up	Pin-Up	Pin-Up	Pin-Up
07036/0710		Pin-Up	Pin-Up	Pin-Up	Pin-Up
07037/0710		Pin-Up	Pin-Up	Pin-Up	Pin-Up
07038/0710		Pin-Up	Pin-Up	Pin-Up	Pin-Up
07039/0710		Pin-Up	Pin-Up	Pin-Up	Pin-Up
07040/0710		Pin-Up	Pin-Up	Pin-Up	Pin-Up
07041/0710		Pin-Up	Pin-Up	Pin-Up	Pin-Up
07042/0710		Pin-Up	Pin-Up	Pin-Up	Pin-Up
07043/0710		Pin-Up	Pin-Up	Pin-Up	Pin-Up
07044/0710		Pin-Up	Pin-Up	Pin-Up	Pin-Up
07045/0710		Pin-Up	Pin-Up	Pin-Up	Pin-Up
07046/0710		Pin-Up	Pin-Up	Pin-Up	Pin-Up
07047/0710		Pin-Up	Pin-Up	Pin-Up	Pin-Up
07048/0710		Pin-Up	Pin-Up	Pin-Up	Pin-Up
07049/0710		Pin-Up	Pin-Up	Pin-Up	Pin-Up
07050/0710		Pin-Up	Pin-Up	Pin-Up	Pin-Up
07051/0710		Pin-Up	Pin-Up	Pin-Up	Pin-Up
07052/0710		Pin-Up	Pin-Up	Pin-Up	Pin-Up
07053/0710		Pin-Up	Pin-Up	Pin-Up	Pin-Up
07054/0710		Pin-Up	Pin-Up	Pin-Up	Pin-Up
07055/0710		Pin-Up	Pin-Up	Pin-Up	Pin-Up
07056/0710		Pin-Up	Pin-Up	Pin-Up	Pin-Up
07057/0710		Pin-Up	Pin-Up	Pin-Up	Pin-Up
07058/0710		Pin-Up	Pin-Up	Pin-Up	Pin-Up
07059/0710		Pin-Up	Pin-Up	Pin-Up	Pin-Up
07060/0710		Pin-Up	Pin-Up	Pin-Up	Pin-Up
07061/0710		Pin-Up	Pin-Up	Pin-Up	Pin-Up
07062/0710		Pin-Up	Pin-Up	Pin-Up	Pin-Up
07063/0710		Pin-Up	Pin-Up	Pin-Up	Pin-Up
07064/0710		Pin-Up	Pin-Up	Pin-Up	Pin-Up
07065/0710		Pin-Up	Pin-Up	Pin-Up	Pin-Up
07066/0710		Pin-Up	Pin-Up	Pin-Up	Pin-Up
07067/0710		Pin-Up	Pin-Up	Pin-Up	Pin-Up
07068/0710		Pin-Up	Pin-Up	Pin-Up	Pin-Up
07069/0710		Pin-Up	Pin-Up	Pin-Up	Pin-Up
07070/0710		Pin-Up	Pin-Up	Pin-Up	Pin-Up
07071/0710		Pin-Up	Pin-Up	Pin-Up	Pin-Up
07072/0710		Pin-Up	Pin-Up	Pin-Up	Pin-Up
07073/0710		Pin-Up	Pin-Up	Pin-Up	Pin-Up
07074/0710		Pin-Up	Pin-Up	Pin-Up	Pin-Up
07075/0710		Pin-Up	Pin-Up	Pin-Up	Pin-Up
07076/0710		Pin-Up	Pin-Up	Pin-Up	Pin-Up
07077/0710		Pin-Up	Pin-Up	Pin-Up	Pin-Up
07078/0710		Pin-Up	Pin-Up	Pin-Up	Pin-Up
07079/0710		Pin-Up	Pin-Up	Pin-Up	Pin-Up
07080/0710		Pin-Up	Pin-Up	Pin-Up	Pin-Up
07081/0710		Pin-Up	Pin-Up	Pin-Up	Pin-Up
07082/0710		Pin-Up	Pin-Up	Pin-Up	Pin-Up
07083/0710		Pin-Up	Pin-Up	Pin-Up	Pin-Up
07084/0710		Pin-Up	Pin-Up	Pin-Up	Pin-Up
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07086/0710		Pin-Up	Pin-Up	Pin-Up	Pin-Up
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07088/0710		Pin-Up	Pin-Up	Pin-Up	Pin-Up
07089/0710		Pin-Up	Pin-Up	Pin-Up	Pin-Up
07090/0710		Pin-Up	Pin-Up	Pin-Up	Pin-Up
07091/0710		Pin-Up	Pin-Up	Pin-Up	Pin-Up
07092/0710		Pin-Up	Pin-Up	Pin-Up	Pin-Up
07093/0710		Pin-Up	Pin-Up	Pin-Up	Pin-Up
07094/0710		Pin-Up	Pin-Up	Pin-Up	Pin-Up
07095/0710		Pin-Up	Pin-Up	Pin-Up	Pin-Up
07096/0710		Pin-Up	Pin-Up	Pin-Up	Pin-Up
07097/0710		Pin-Up	Pin-Up	Pin-Up	Pin-Up
07098/0710		Pin-Up	Pin-Up	Pin-Up	Pin-Up
07099/0710		Pin-Up	Pin-Up	Pin-Up	Pin-Up
07100/0710		Pin-Up	Pin-Up	Pin-Up	Pin-Up



# ESP32-WROOM-32x-xxx MODULE

