

# Reference Schematic For RK3308B

**RK3308B-V1.0**

**20190803**

PMIC: Discrete  
RAM: DDR3  
ROM: eMMC/Nand/SPI Nor + TF card  
Interface: ACODEC/I2S/PDM/SPDIF/LCDC/MAC

Revision History

Version	Date	Author	Change Note
V0.1	2019.05.30		First edition
V1.0			

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## Note

### NOTE 1: Component parameter description

1. DNP stands for component not mounted temporarily
2. If Value or option is DNP, which means the area is reserved without being mounted
3. If Flash is compatible, please notice when eMMC is used, the option is that @eMMC is mounted, @Nand is not mounted when Nand is used, the option is that @Nand is mounted, @eMMC is not mounted

**NOTE 2:**  
Please use our recommended components to avoid too many changes.For more informations about the second source,please refer to our AVL.

Note

Option

Description

Remind

### Bill of Materials

#### Header:

Item\tPart\tDescription\tPCB Footprint\tReference\tQuantity\tOption

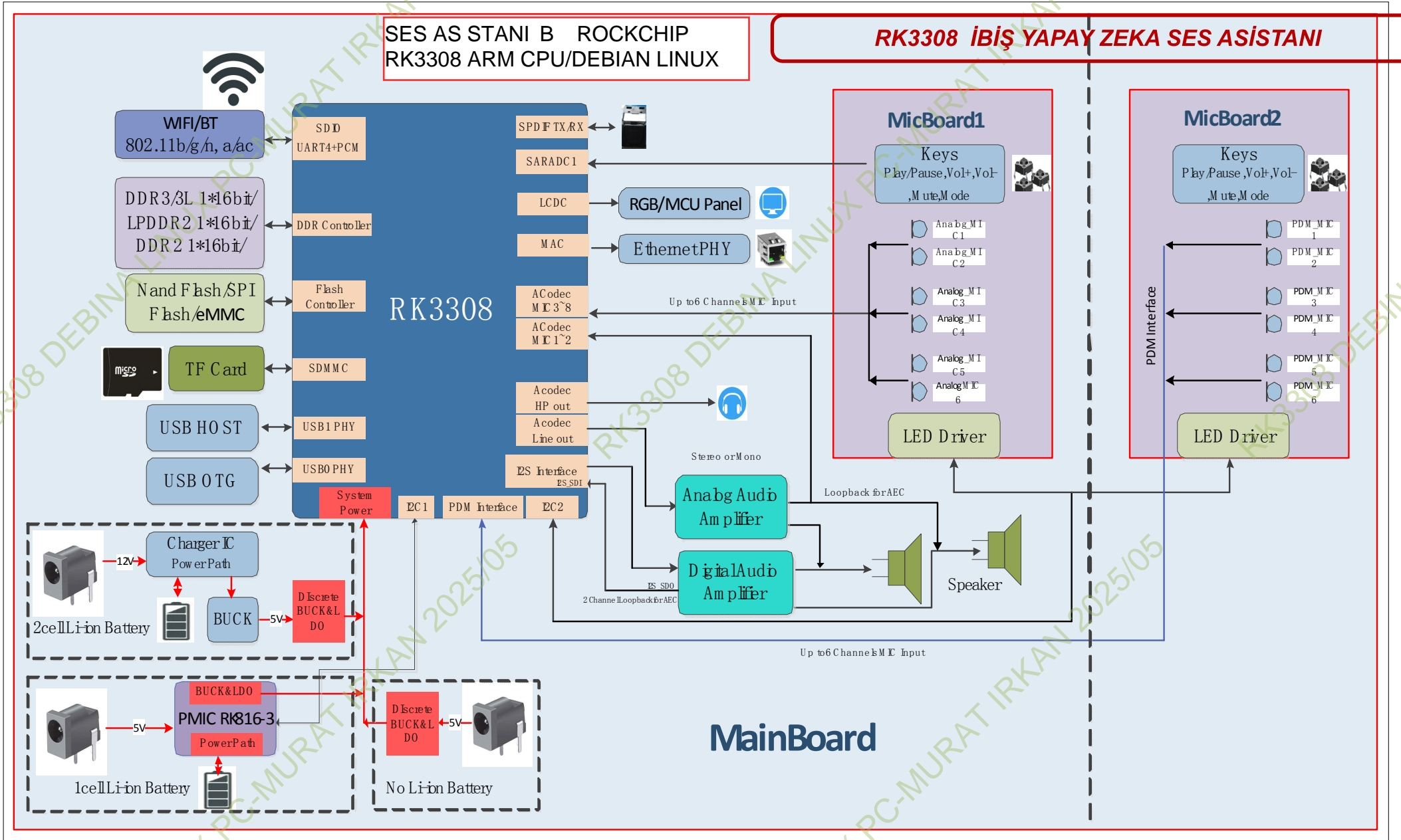
#### Combined property string:

{Item}\t{Value}\t{Description}\t{PCB Footprint}\t{Reference}\t{Quantity}\t{Option}

## Block Diagram

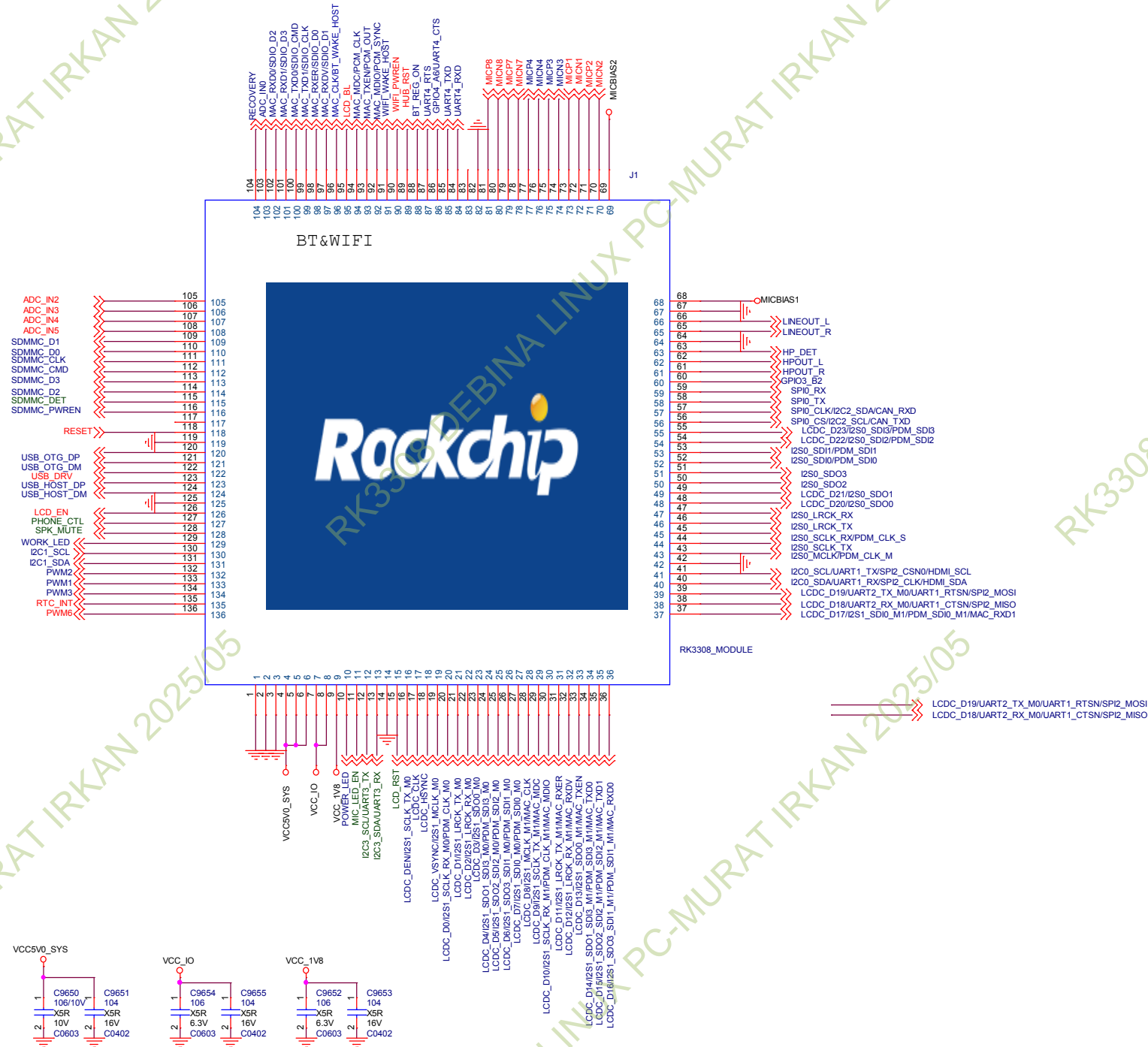
SES AS STANI B ROCKCHIP  
RK3308 ARM CPU/DEBIAN LINUX

**RK3308 İBİŞ YAPAY ZEKA SES ASİSTANI**

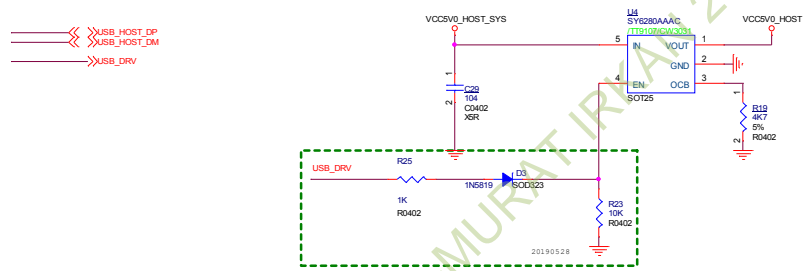


I2C MAP

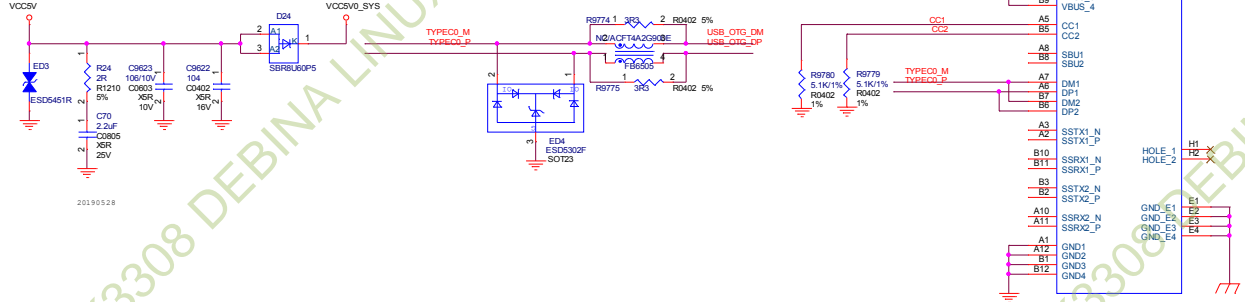
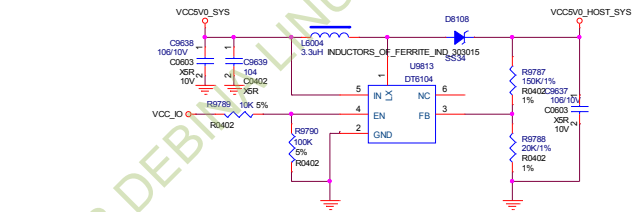
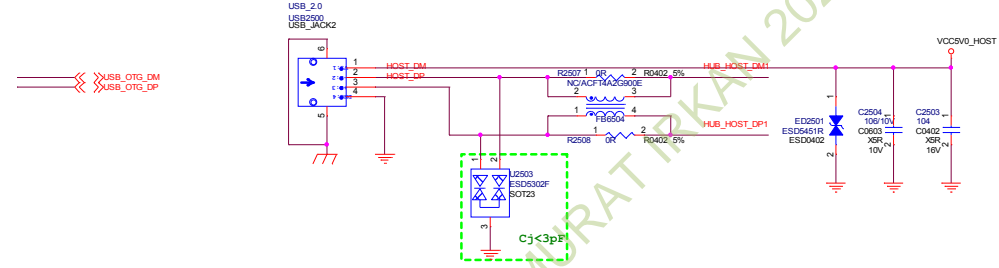
Port	Pin name	Domain	Bus name	Pull-up voltage	Slave Device	Slave Addr (MS 7Bits)	Note	Slave Bus Capability
I2C0	GPIO1_D1/UART1_TX/I2C0_SCL/SPI2_CSN0 GPIO1_D0/UART1_RX/I2C0_SDA/SPI2_CLK	VCCI01	I2C0_SCL I2C0_SDA	VCC_IO				
I2C1	GPIO0_B4/I2C1_SCL GPIO0_B3/I2C1_SDA	VCCI00	I2C1_SCL I2C1_SDA	VCC_IO		0x1A	MIC Array Connector-Analog TT8563	
I2C2	GPIO2_A3/UART0_RTSN/SPI0_CSN0/I2C2_SCL GPIO2_A2/UART0_CTSN/SPI0_CLK/I2C2_SDA	VCCI02	I2C2_SCL I2C2_SDA	VCC_IO				



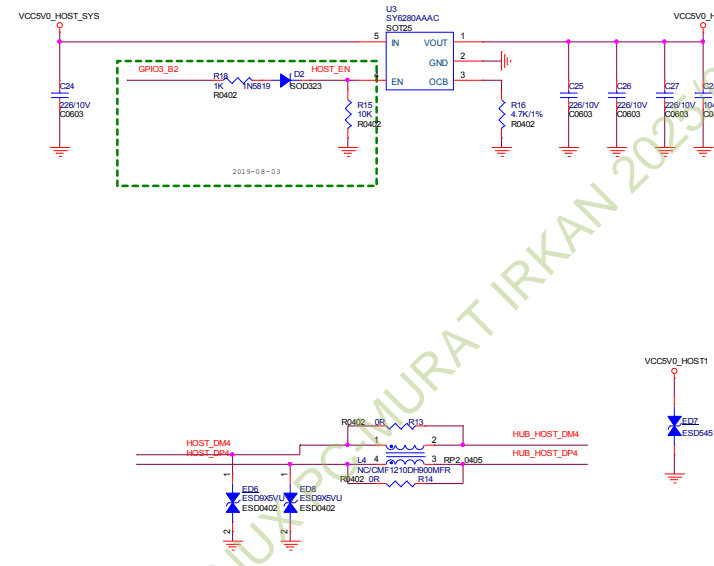
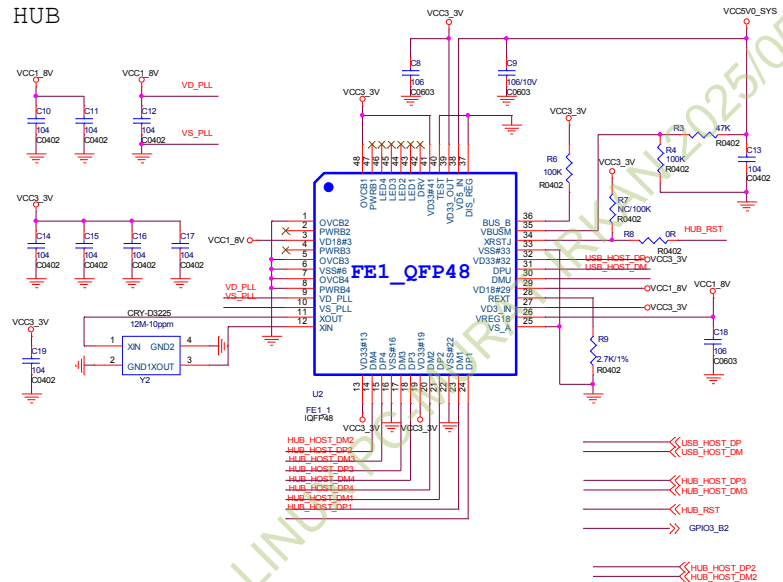
## USB HOST



## USB OTG



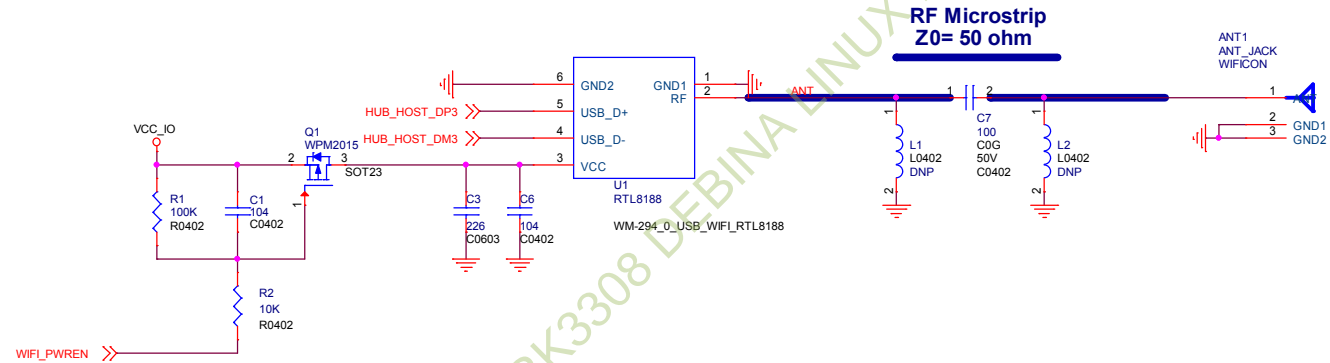
## HUB





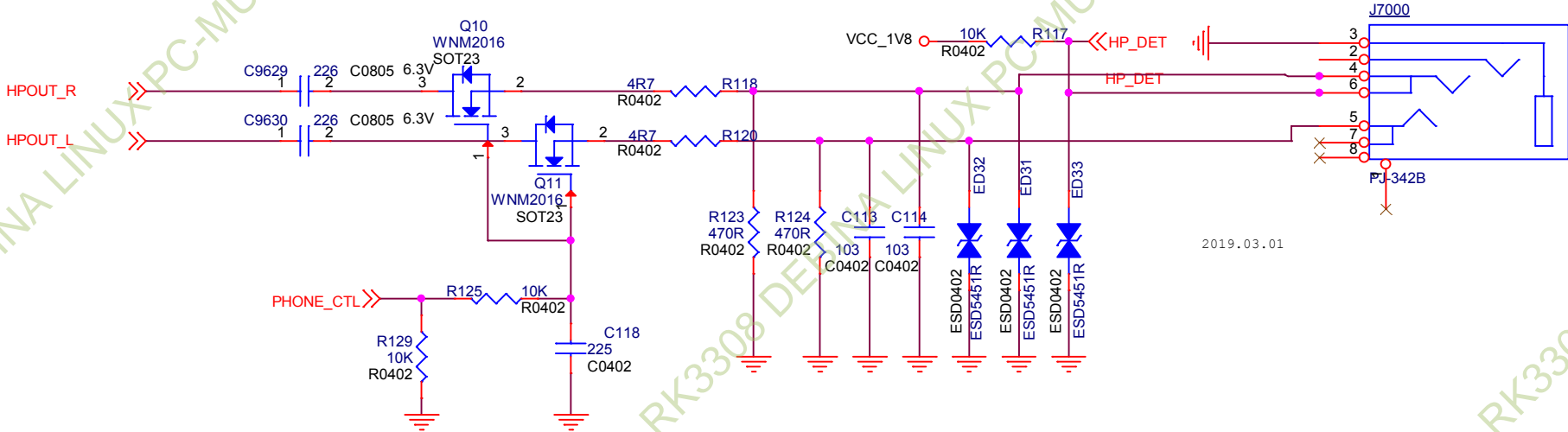


USB WIFI

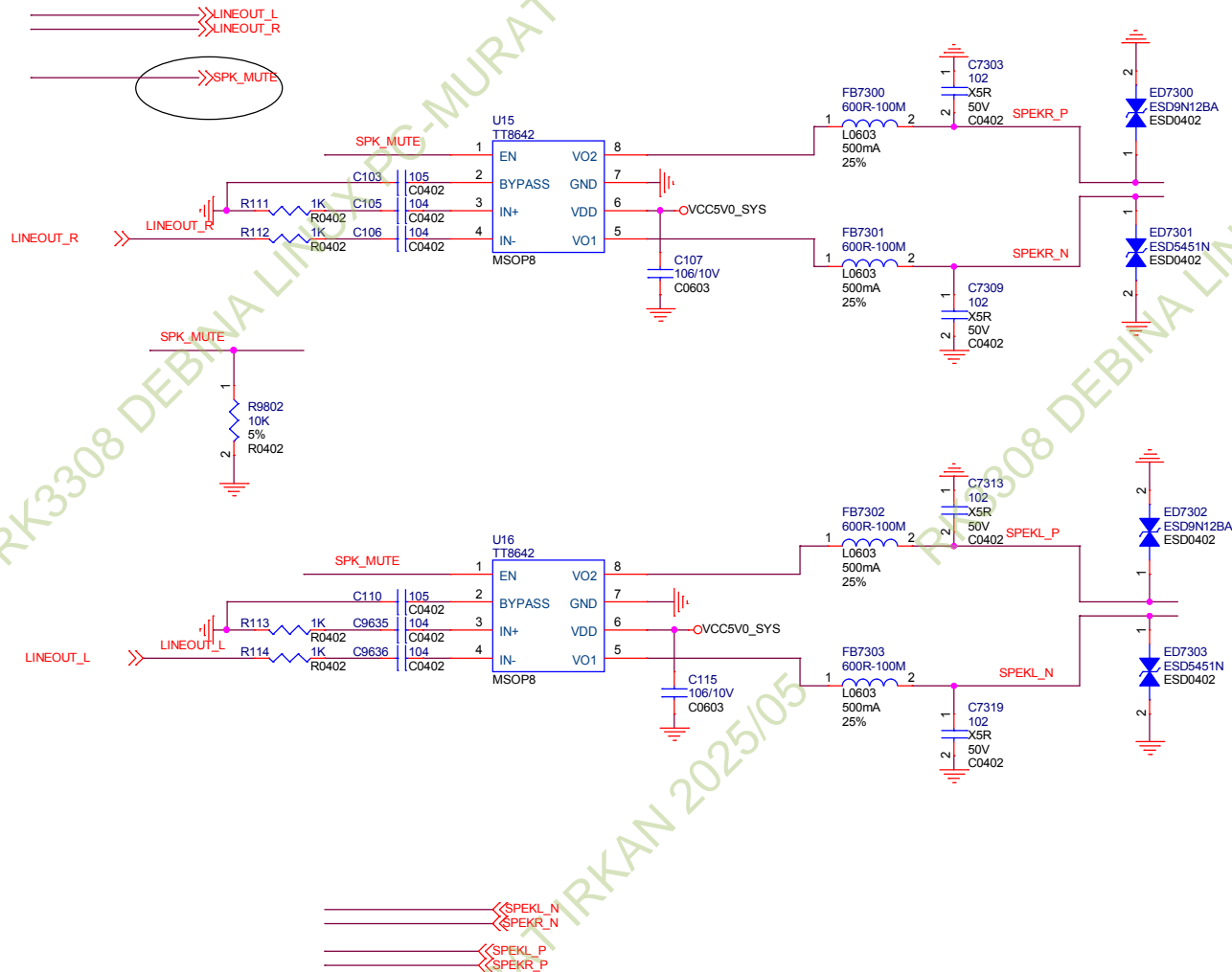




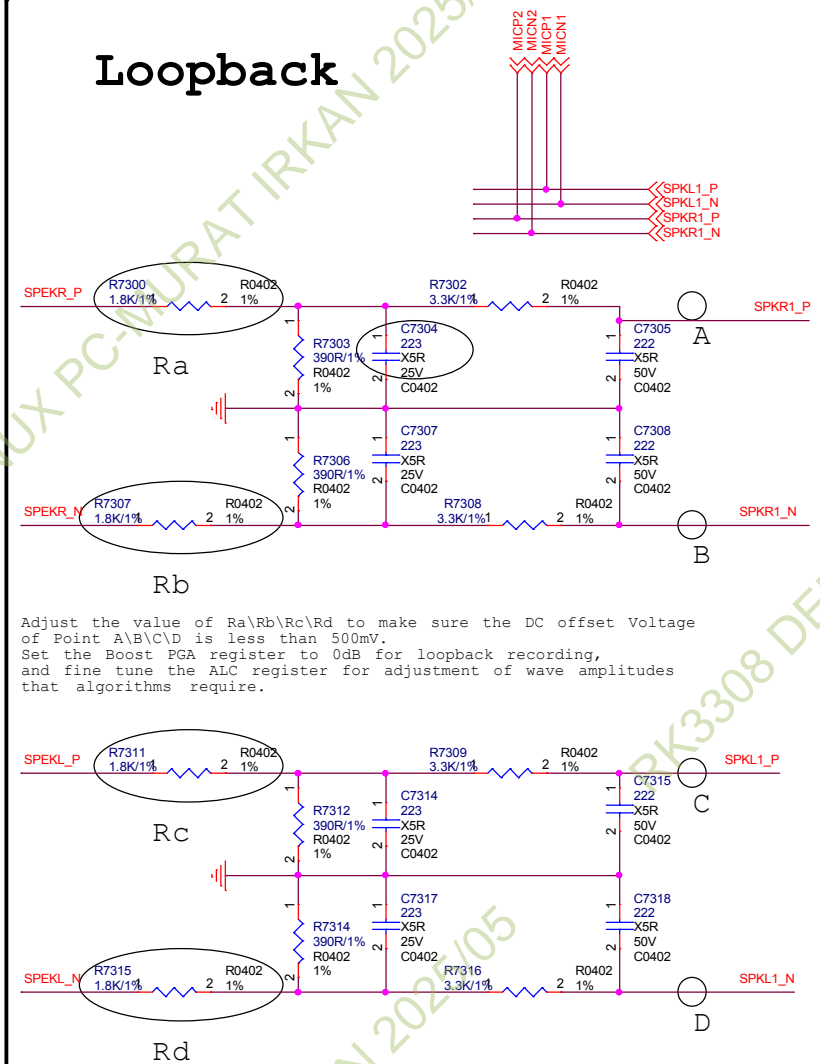
# Headphone



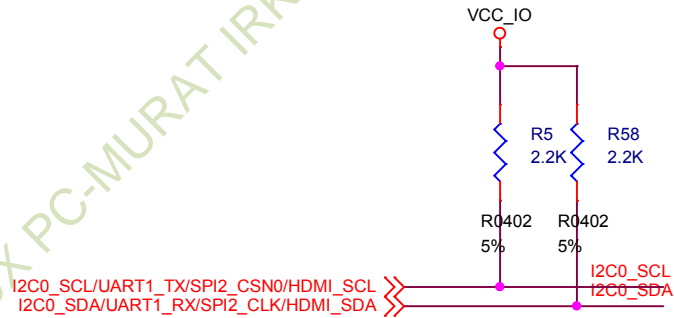
# AUDIO\_PowerAmp-Analog



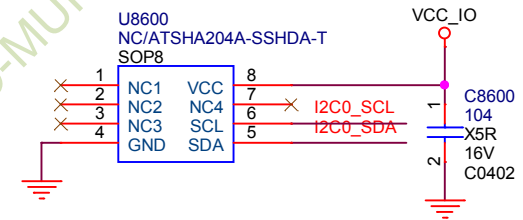
## Loopback



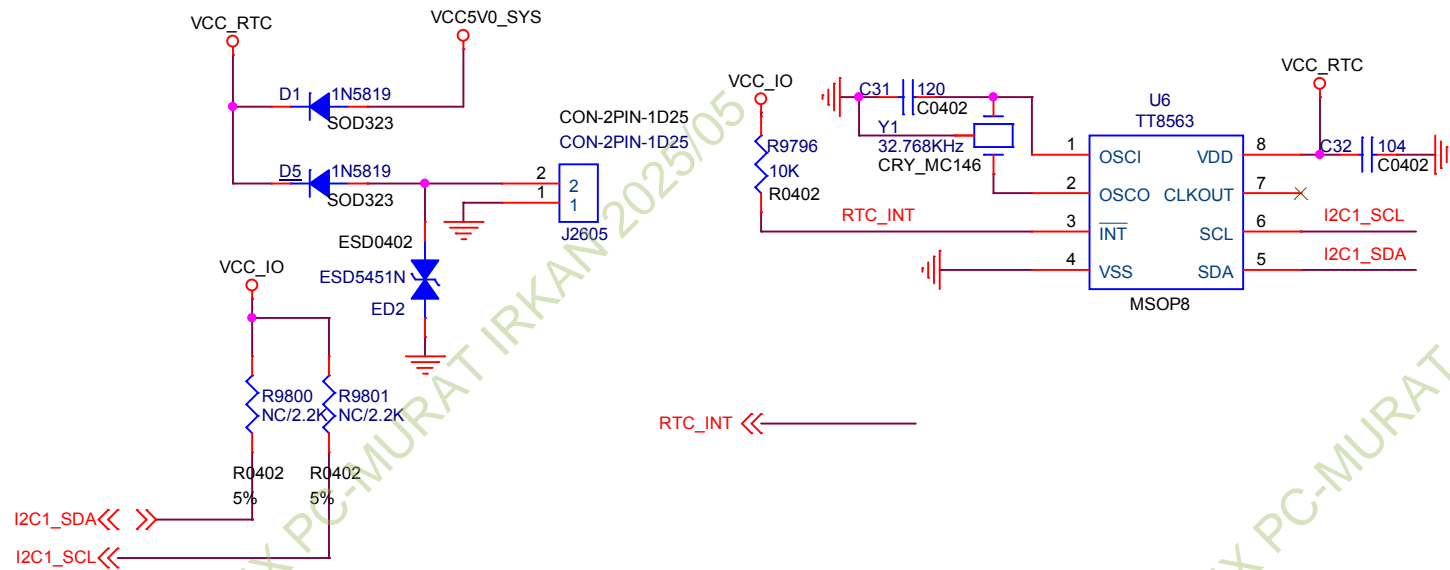
## Encryption chip



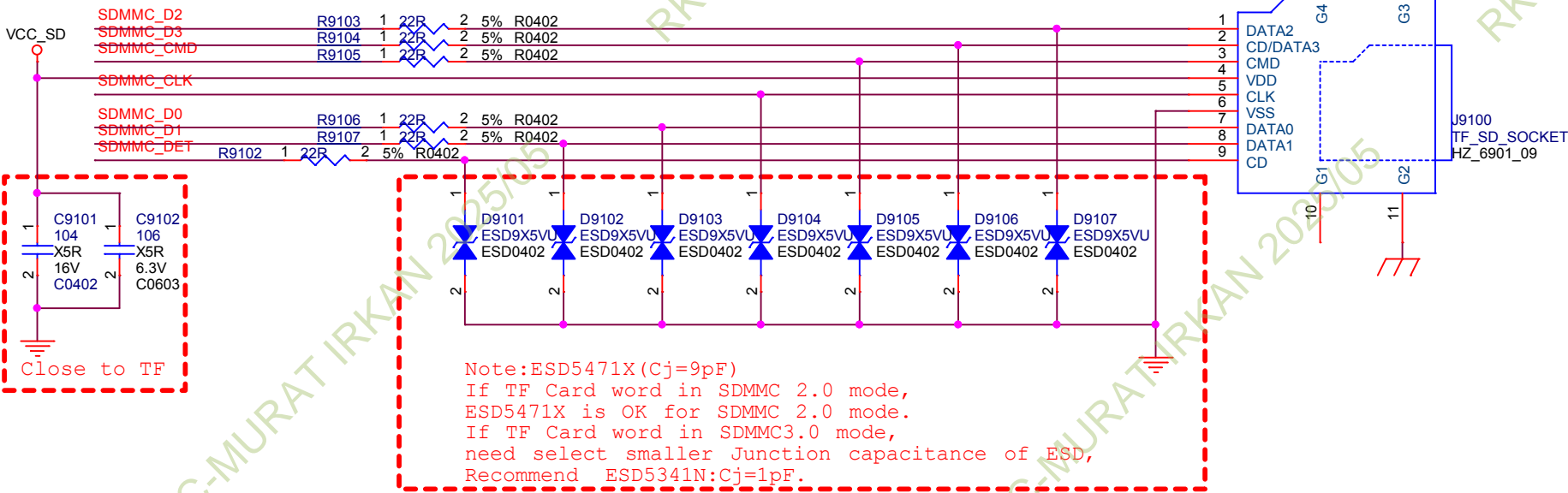
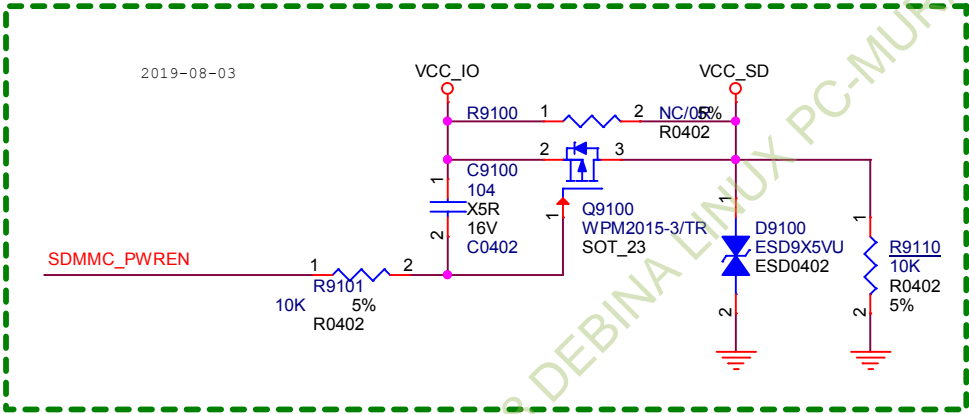
Note:  
For MicArray Algorithm Use Only



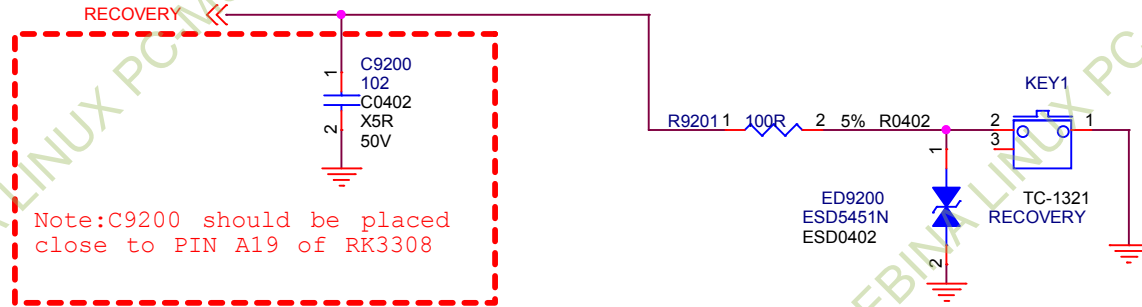
# RTC



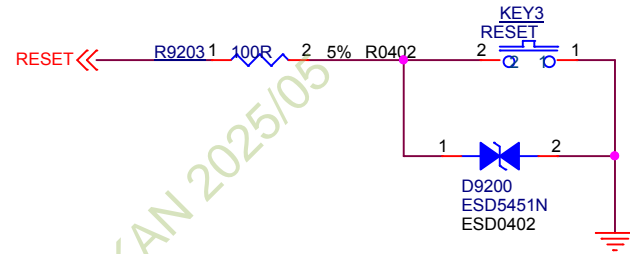
TF Card



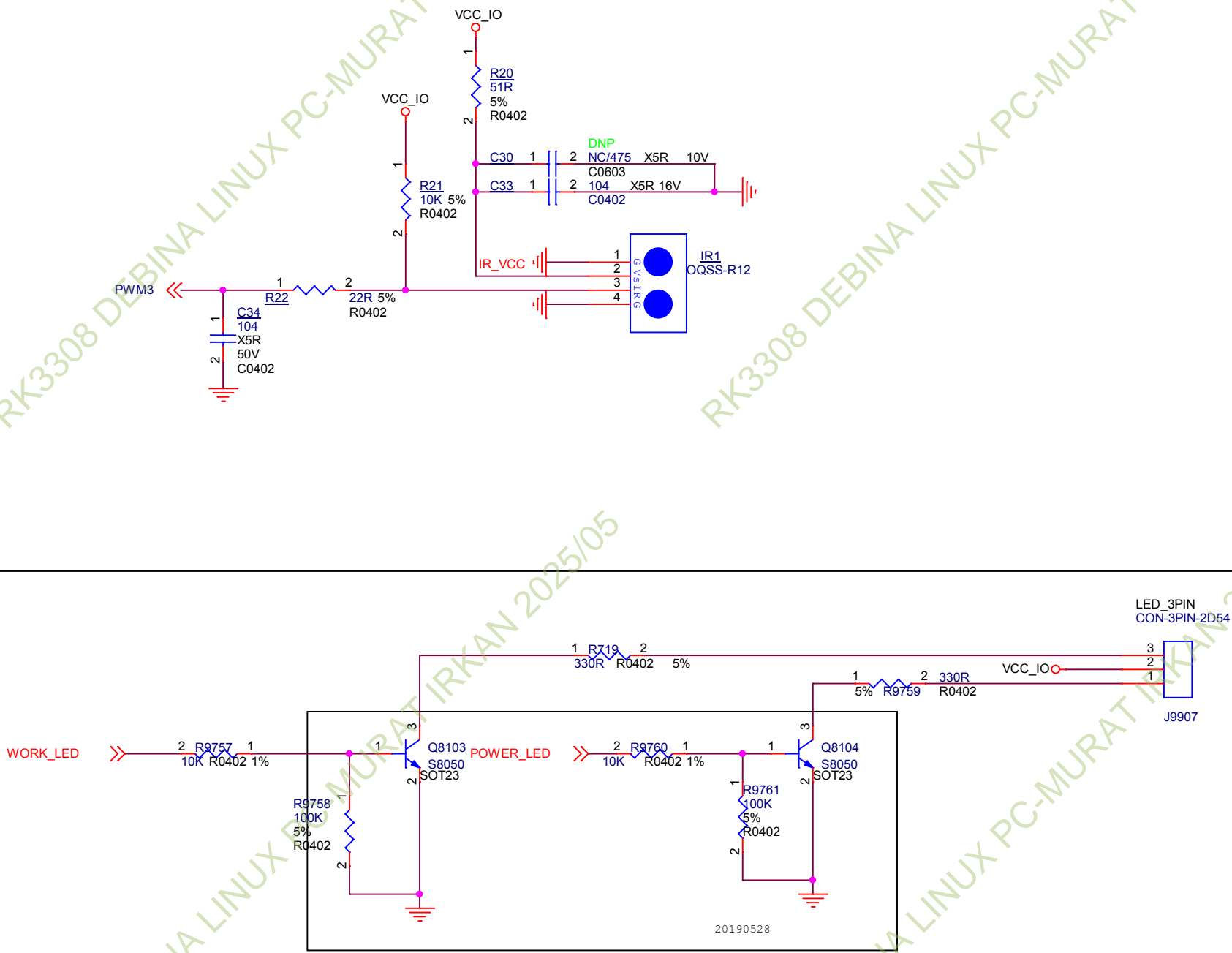
## RECOVERY Key



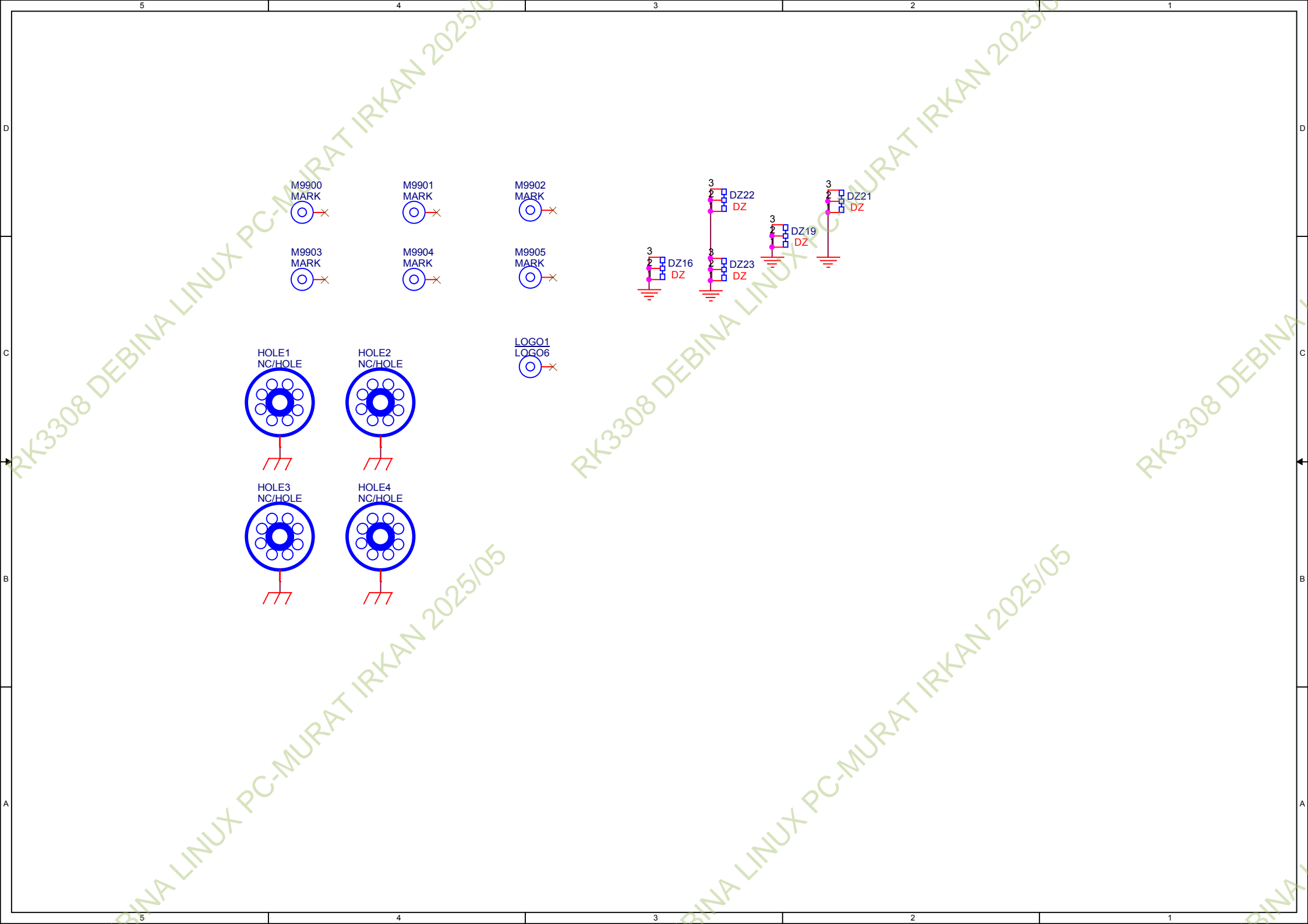
## RESET Key

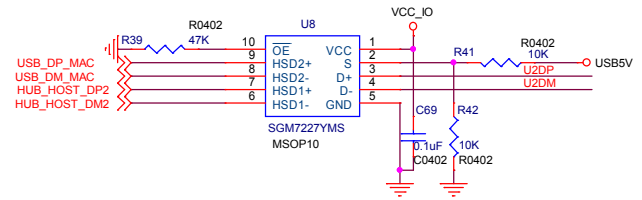
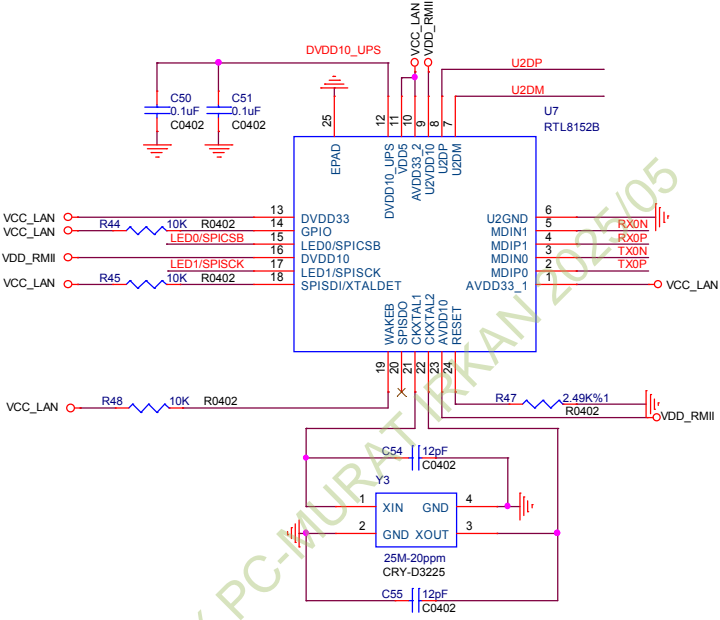
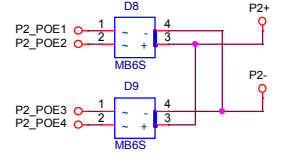
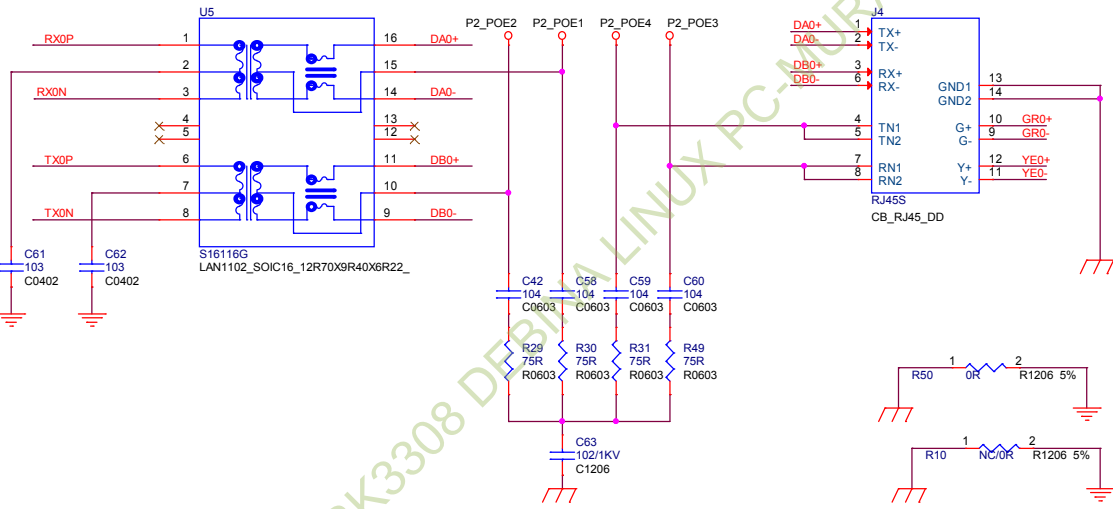
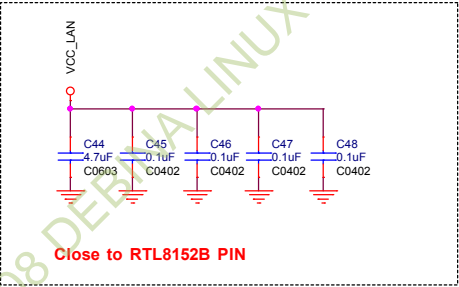
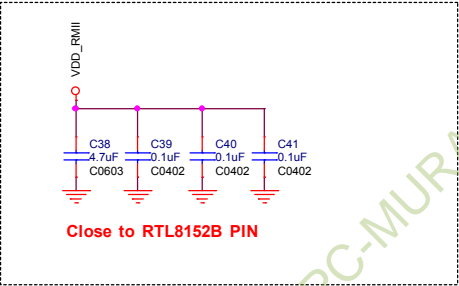


IR Receiver

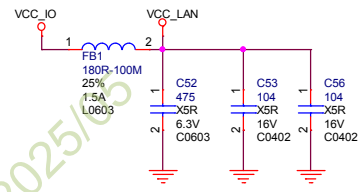








POWER



PHY Address/LED

