

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:

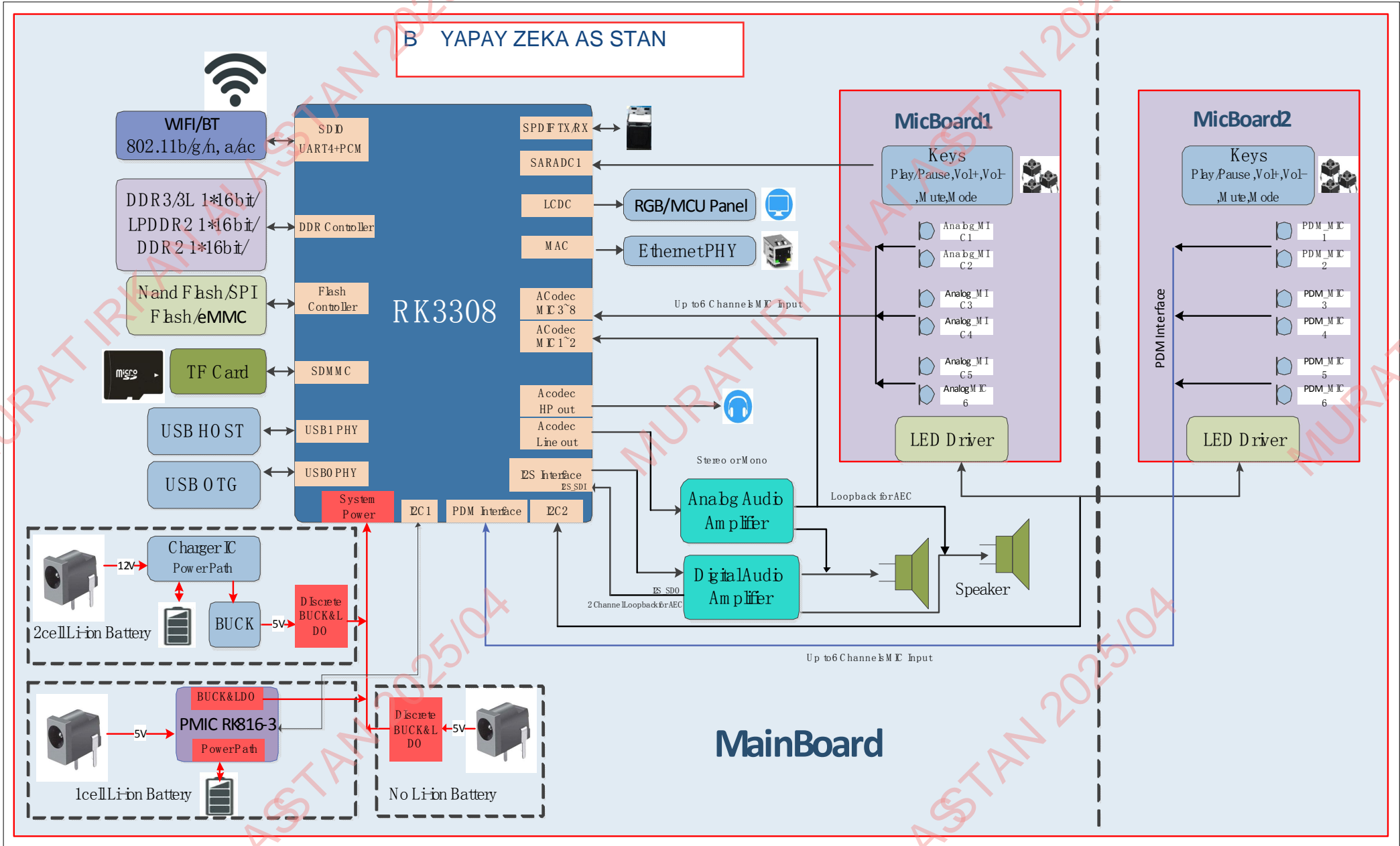
Item\tPart\tDescription\tPCB Footprint\tReference\tQuantity\tOption

Combined property string:

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

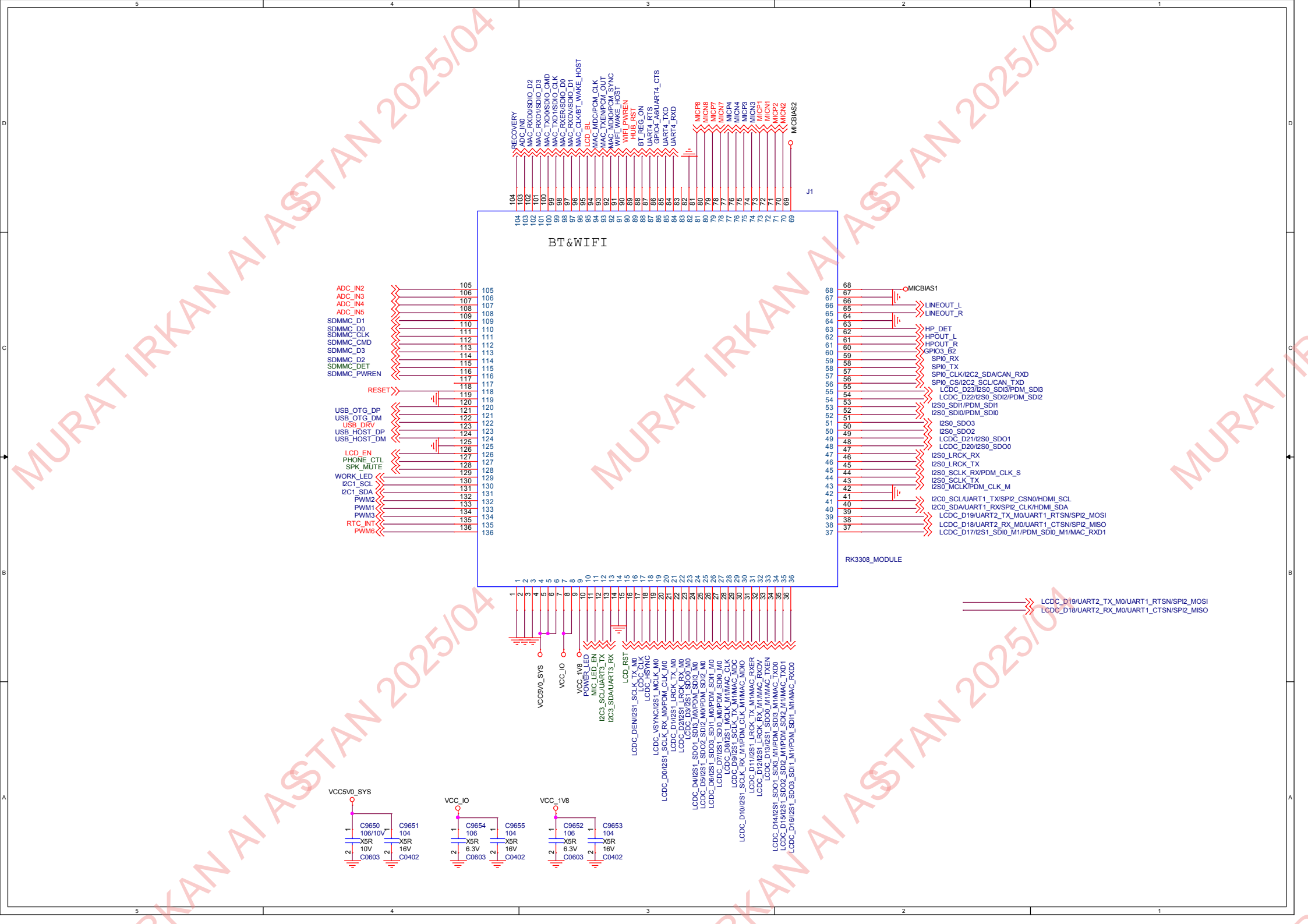
Block Diagram

B YAPAY ZEKA AS STAN

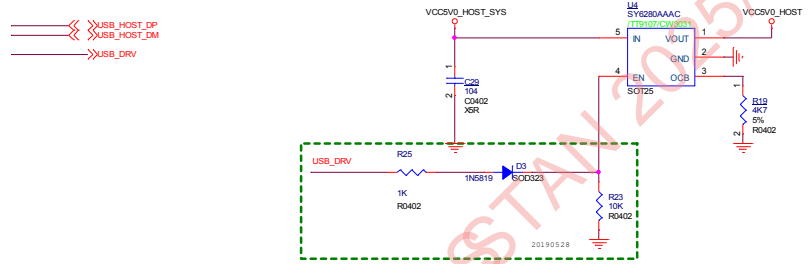


I2C MAP

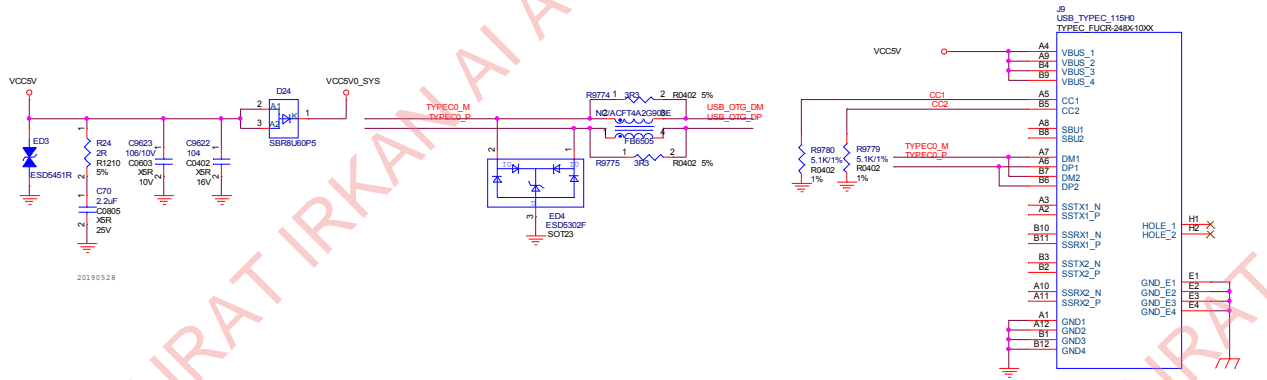
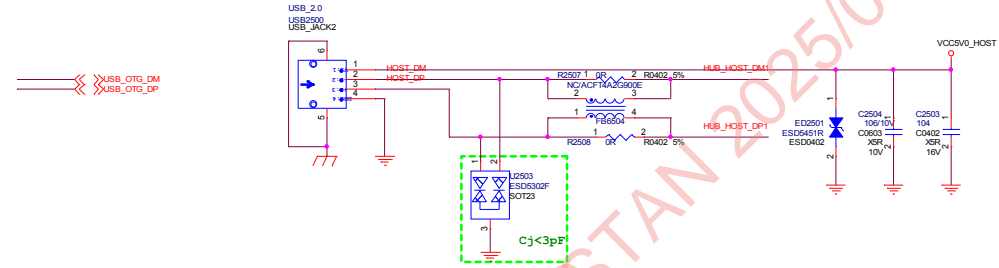
Port	Pin name	Domain	Bus name	Pull-up voltage	Slave Device	Slave Addr (MS 7Bits)	Note	Slave Bus Capability
I2C0	GPIO1_D1/UART1_TX/I2C0_SCL/SPI2_CSN0 GPIO1_D0/UART1_RX/I2C0_SDA/SPI2_CLK	VCCI01	I2C0_SCL I2C0_SDA	VCC_IO				
I2C1	GPIO0_B4/I2C1_SCL GPIO0_B3/I2C1_SDA	VCCIO0	I2C1_SCL I2C1_SDA	VCC_IO		0x1A	MIC Array Connector-Analog TT8563	
I2C2	GPIO2_A3/UART0_RTSN/SPI0_CSN0/I2C2_SCL GPIO2_A2/UART0_CTSN/SPI0_CLK/I2C2_SDA	VCCIO2	I2C2_SCL I2C2_SDA	VCC_IO				



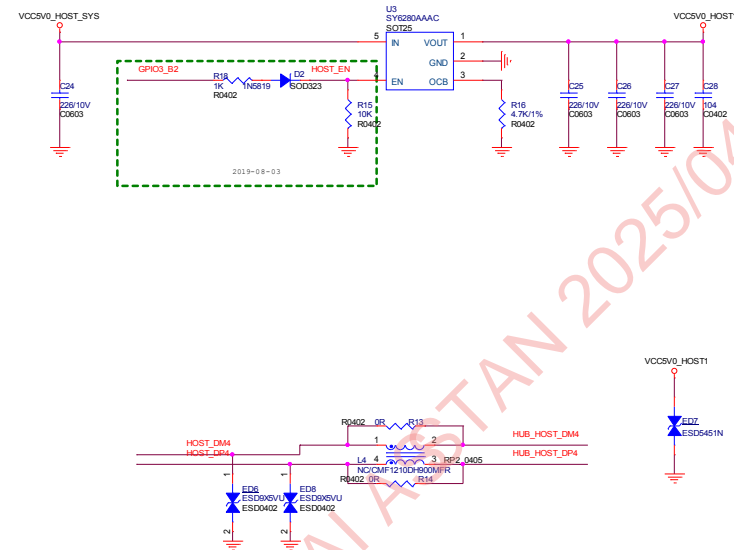
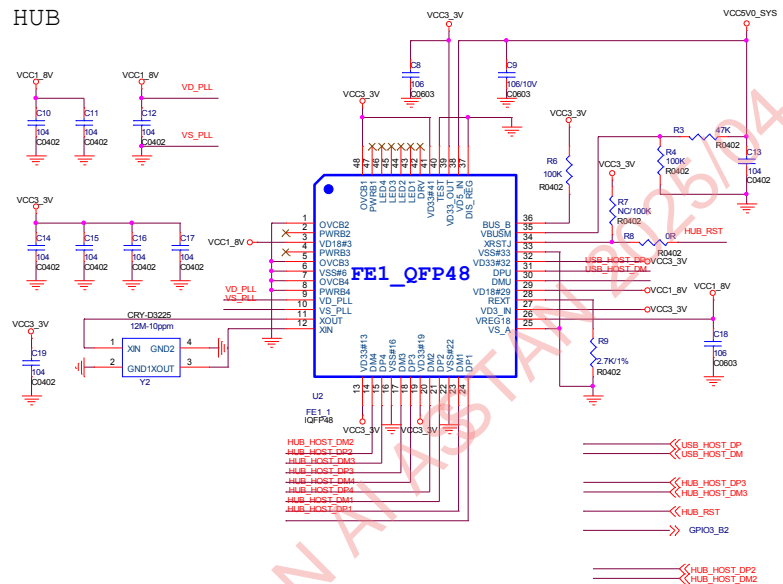
USB HOST

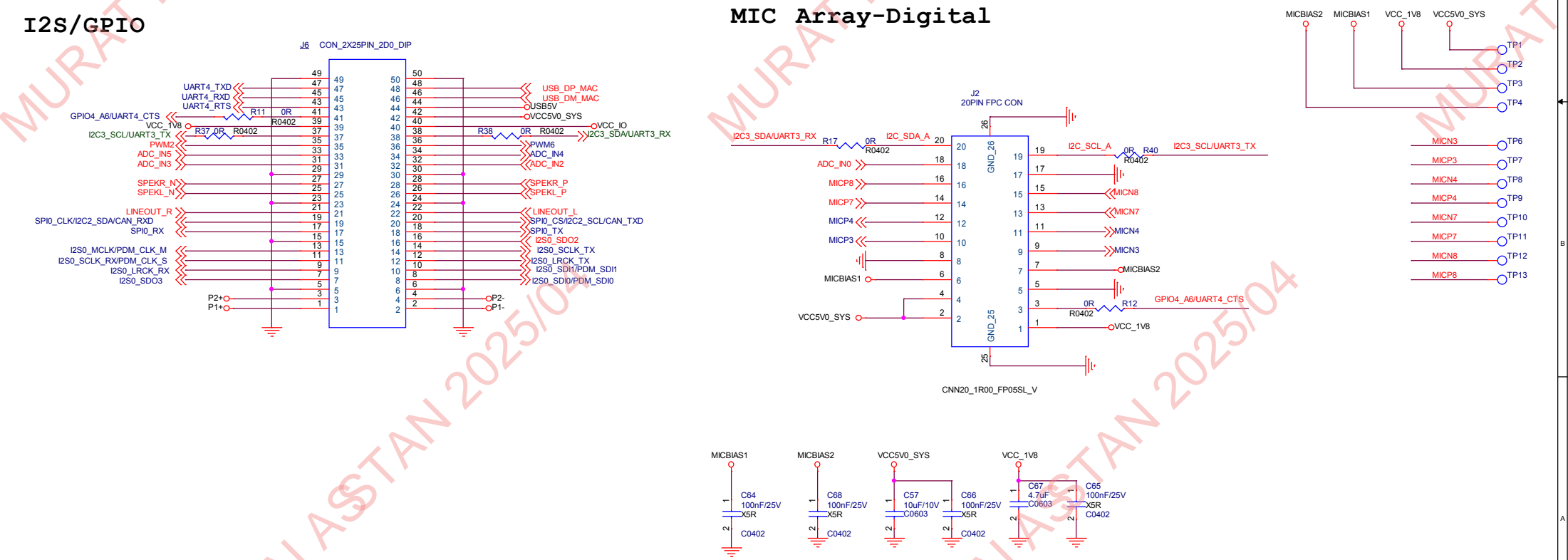
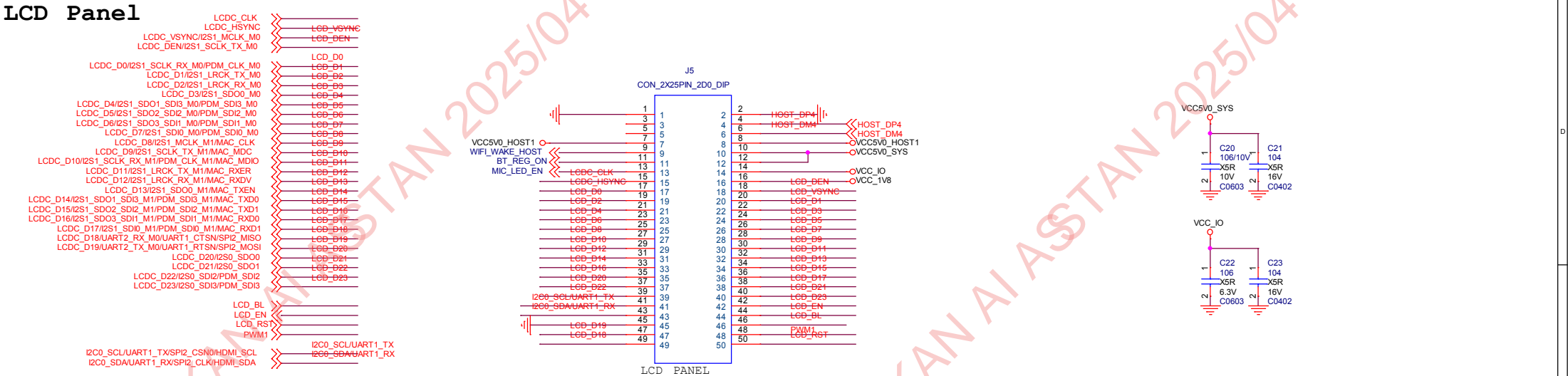


USB OTG

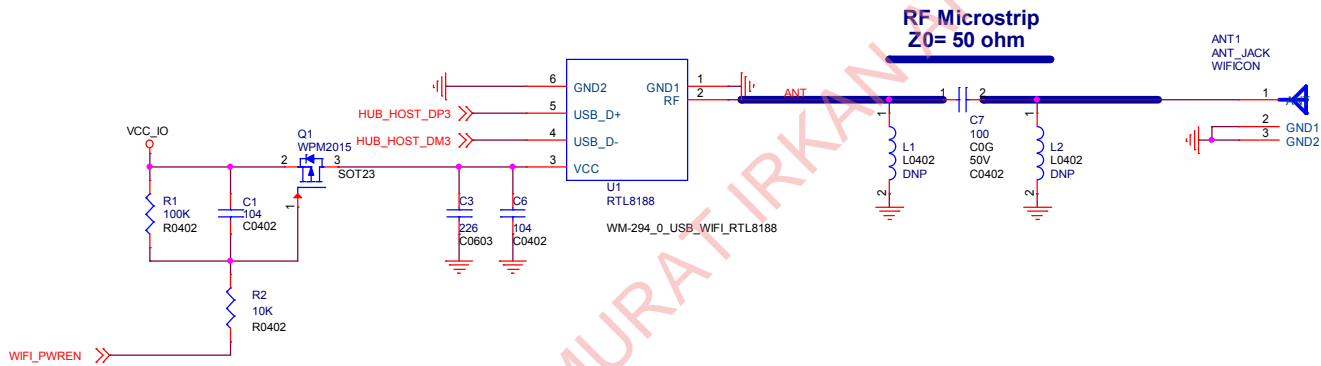


HUB

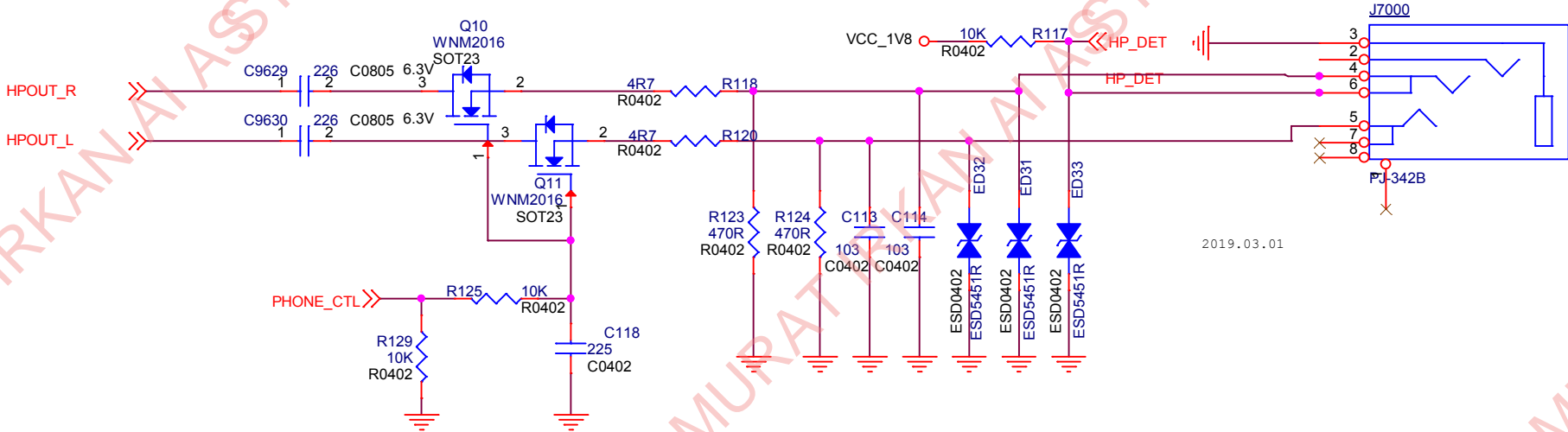


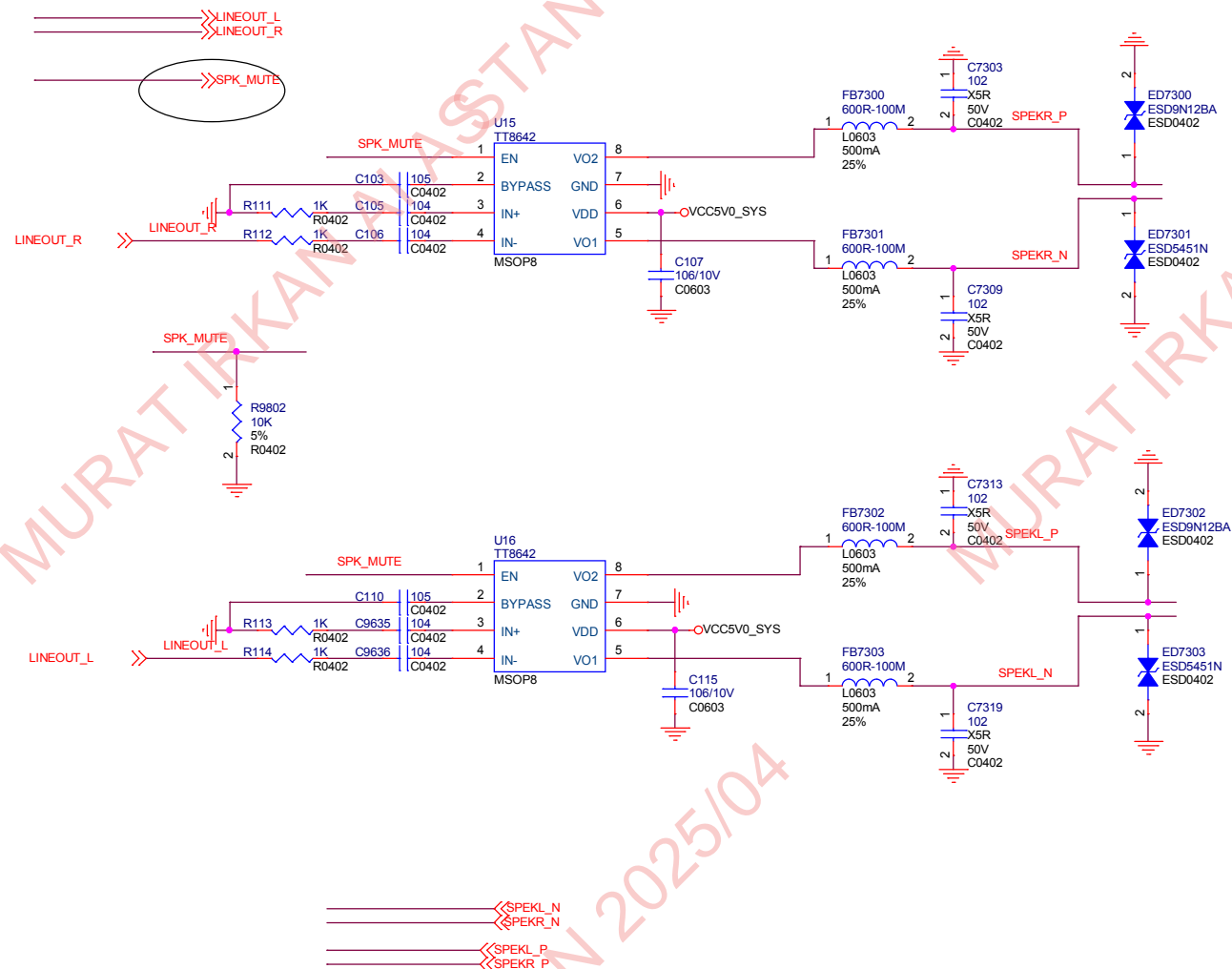


USB WIFI



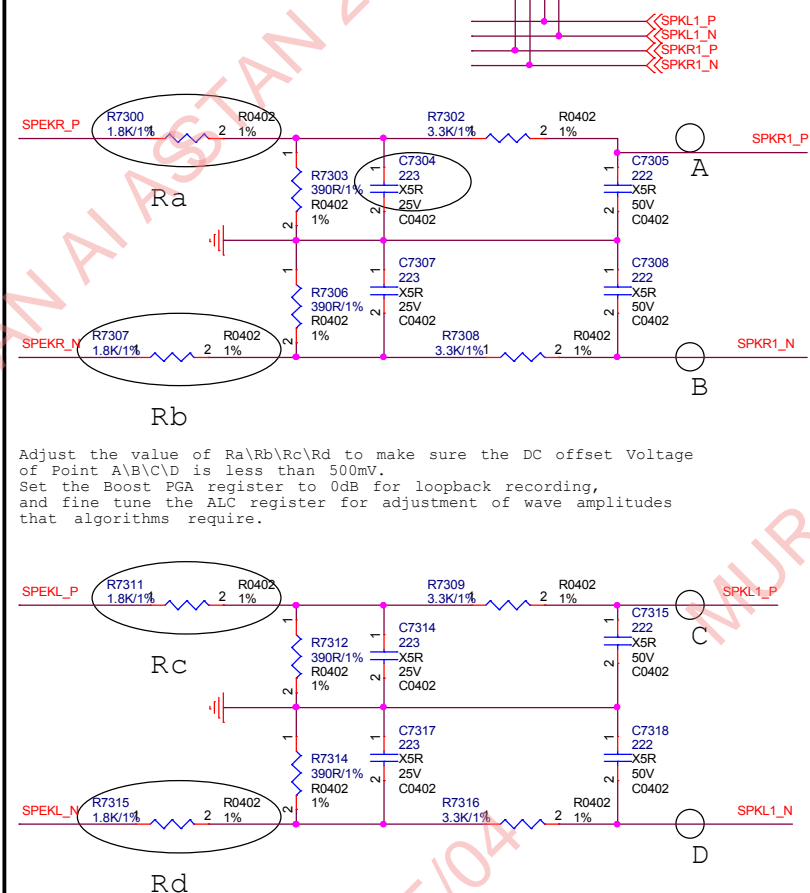
Headphone



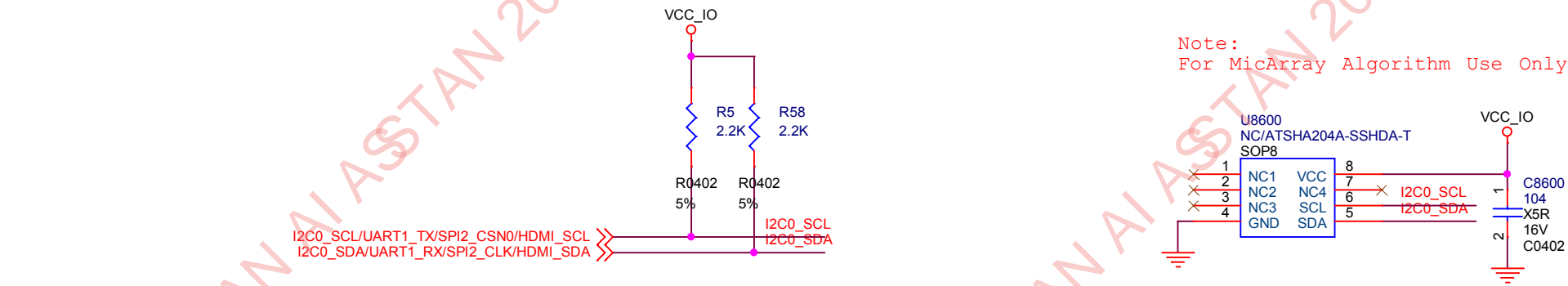
[illegible]

Loopback

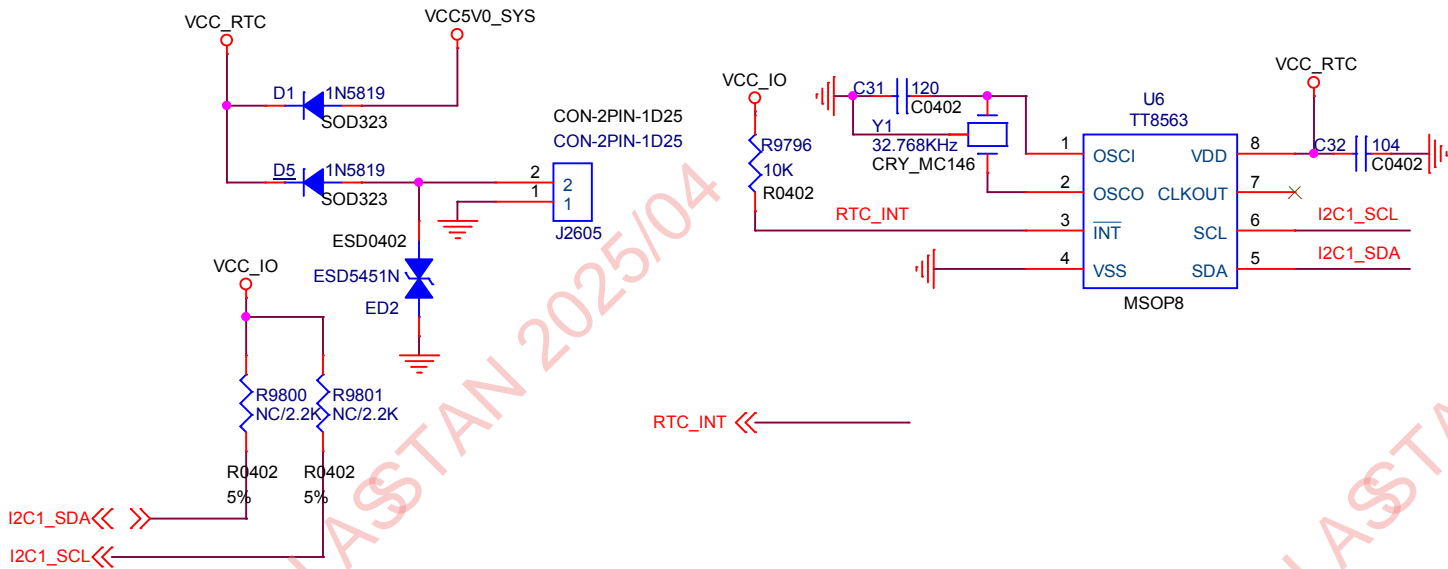
Adjust the value of R_a \(R_b \(R_c \(R_d to make sure the DC offset Voltage of Point A\B\C\D is less than 500mV.
Set the Boost PGA register to 0dB for loopback recording,
and fine tune the ALC register for adjustment of wave amplitudes that algorithms require.



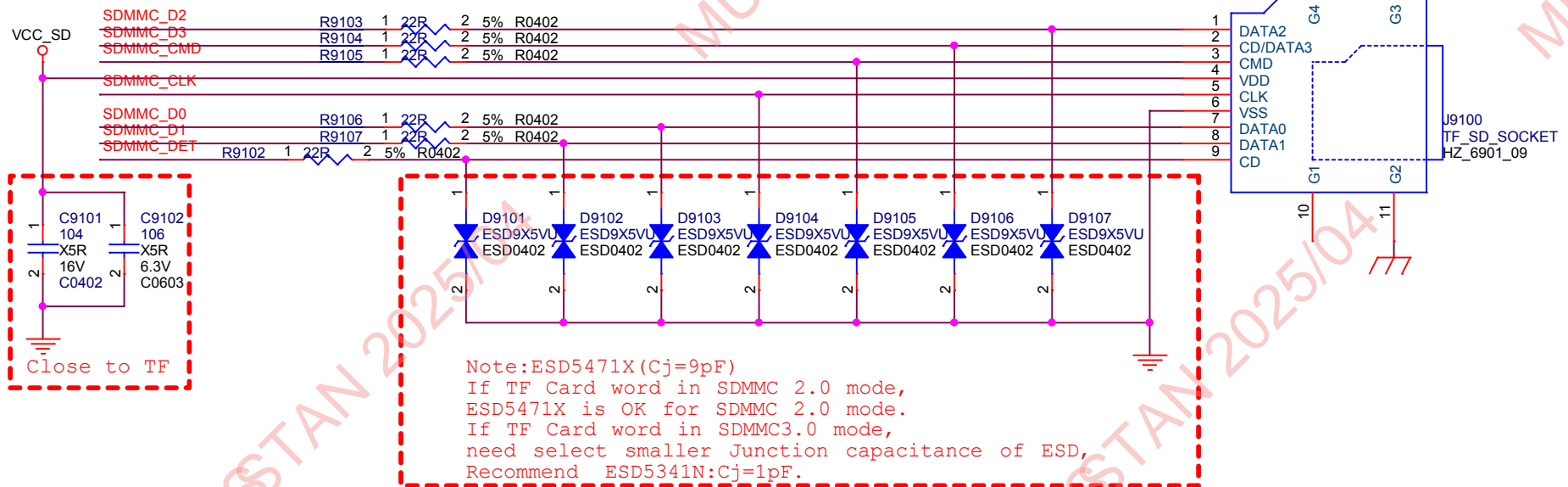
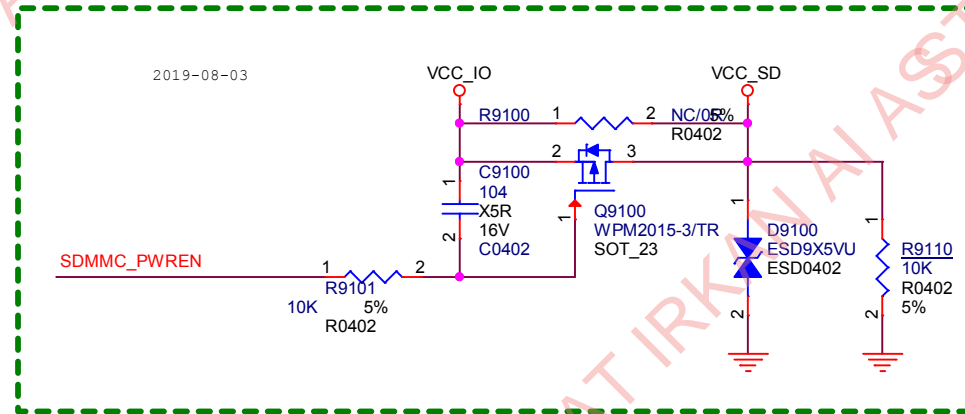
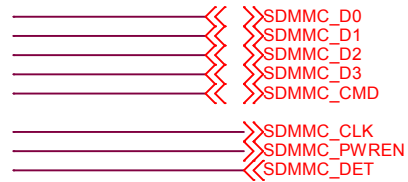
Encryption chip



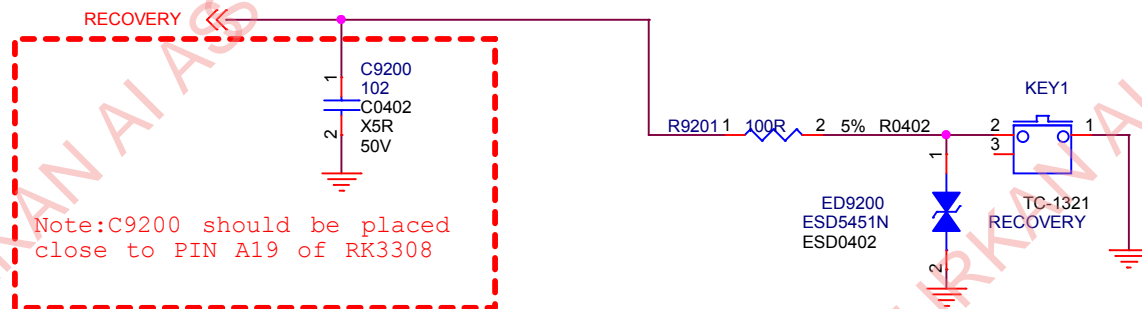
RTC



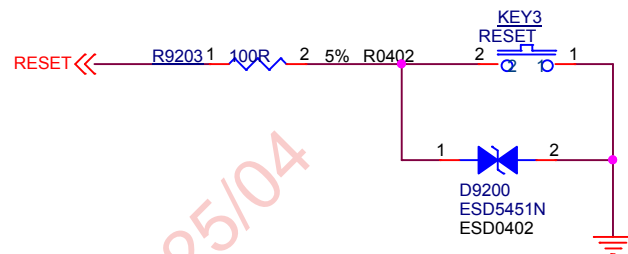
TF Card



RECOVERY Key



RESET Key



IR Receiver

