

野火_EBF RK3588S BTB底板_原理图

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历史版本

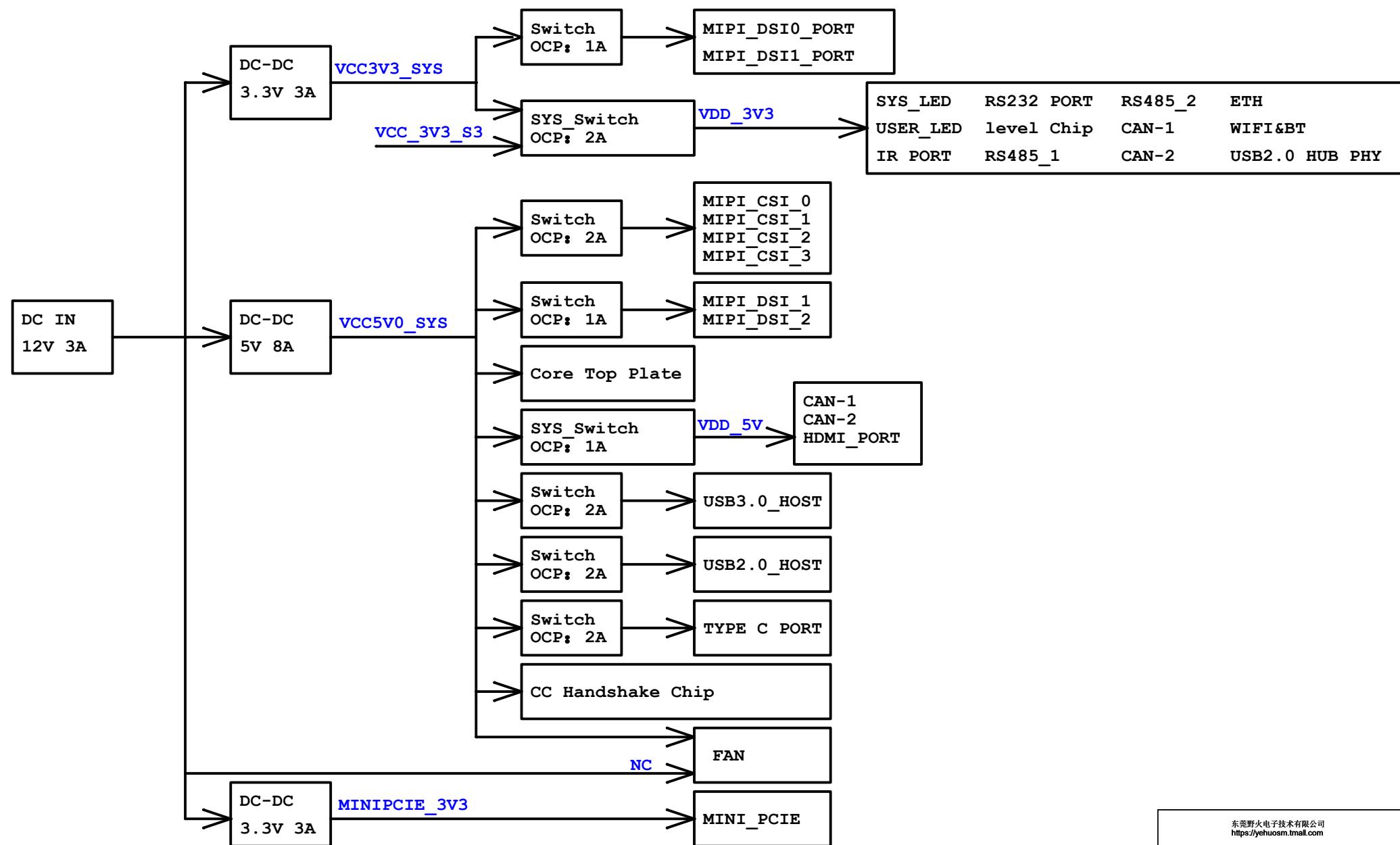
版本号	日期	设计	描述
V0R1	2022-12-02	ghs	初始版本
V0R3	2025-02-26	ghs	将GMAC1_TXCLK与GMAC1_RXEN调换线序，修正UART0, UART9线序 调整SDMMC引脚线序 添加BOOT按钮，修正错误的标注

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Size	Document Number	Historic Version	Rev
A4			V0R3

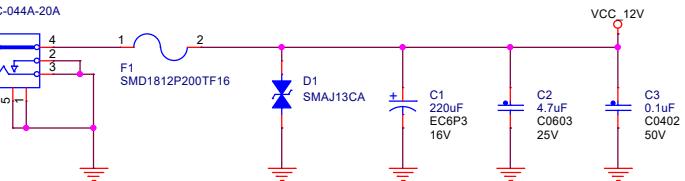
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Power Diagram

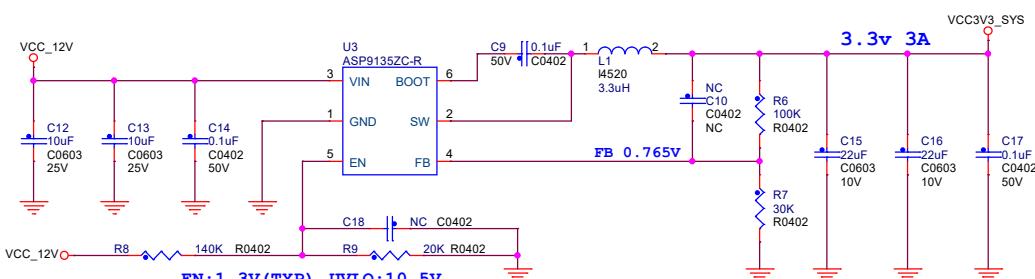


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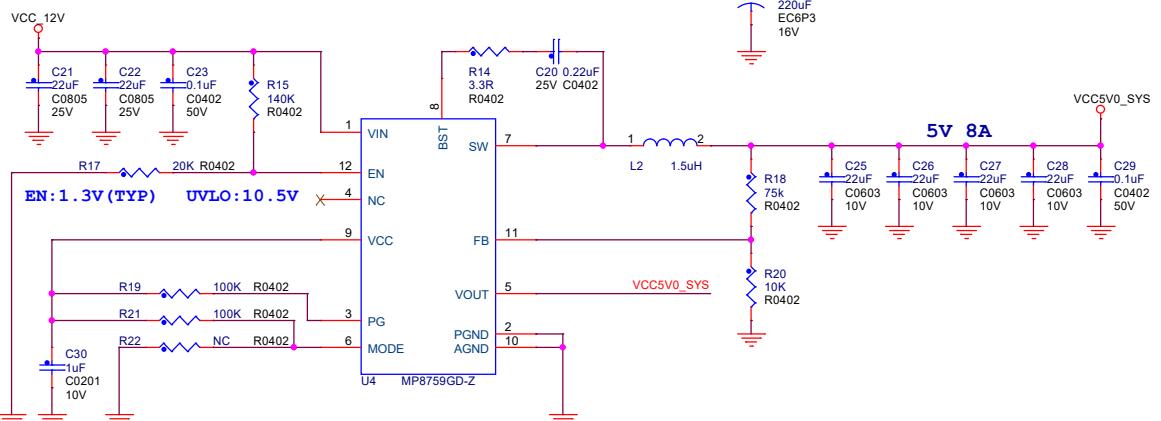
DC IN : 12V



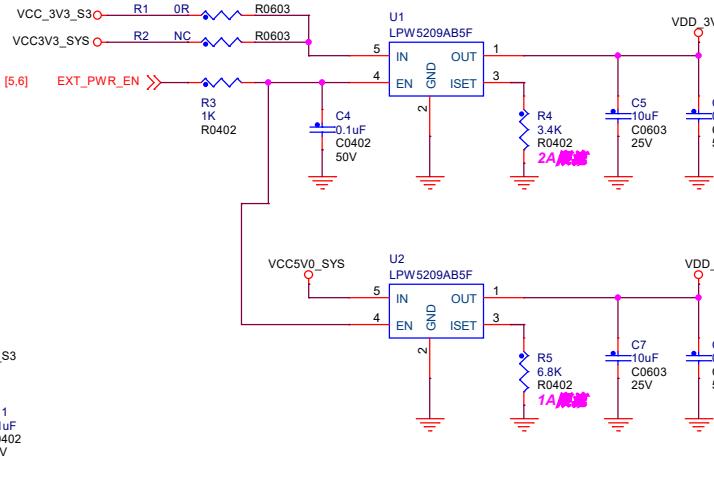
VCC3VS_SYS



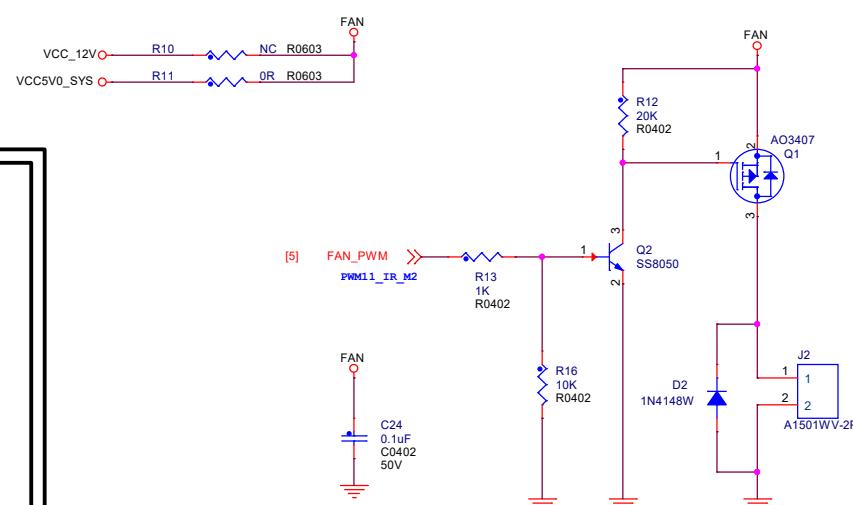
VCC5V0_SYS



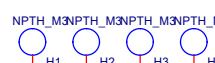
SYSTEM Power SW And OCP



FAN



Fix Hole



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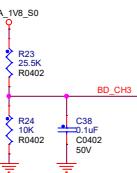
Title 野火_EBF_RK3588S_BTB底板

Size A3 Document Number DC IN/POWER/FAN Rev V0R3

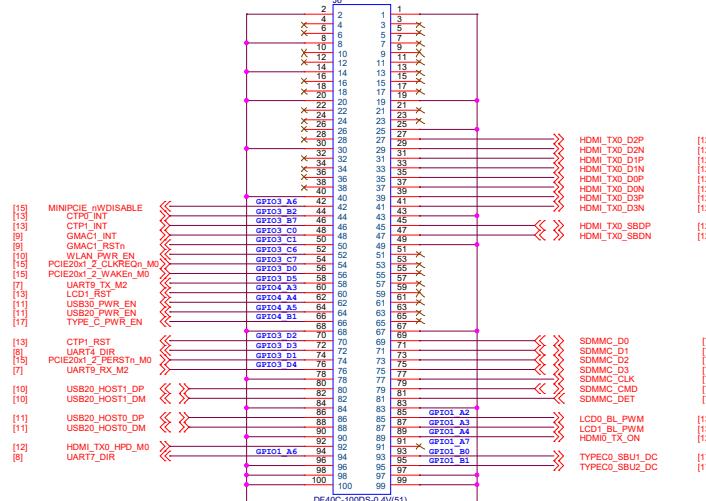
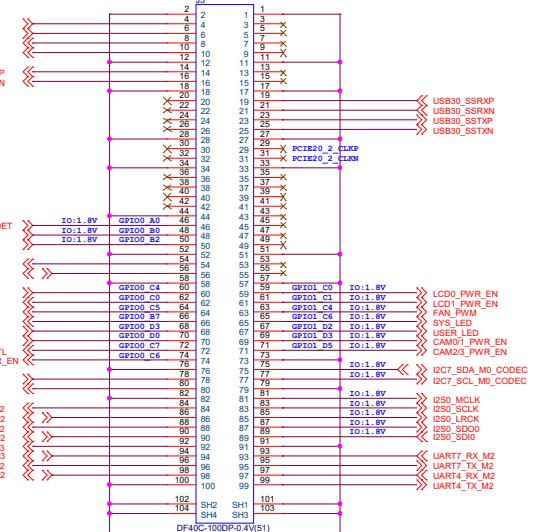
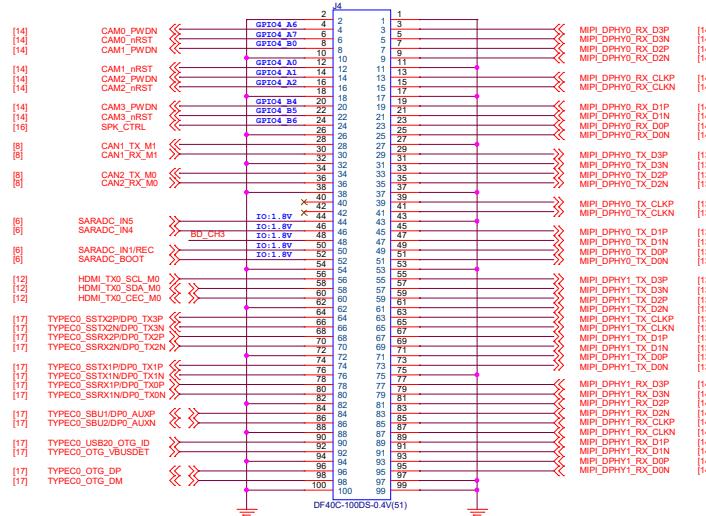
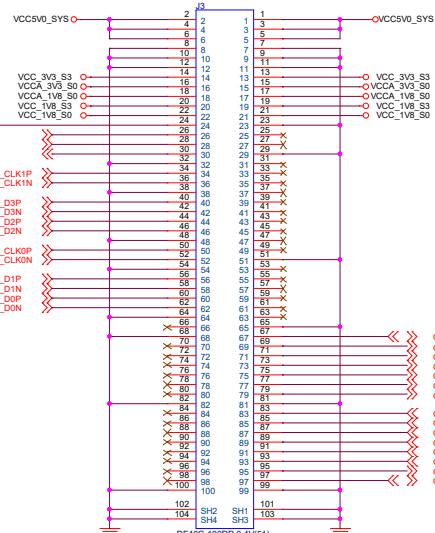
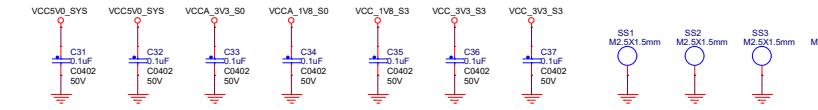
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BTB 0P5 100*4 Connector

BD ID

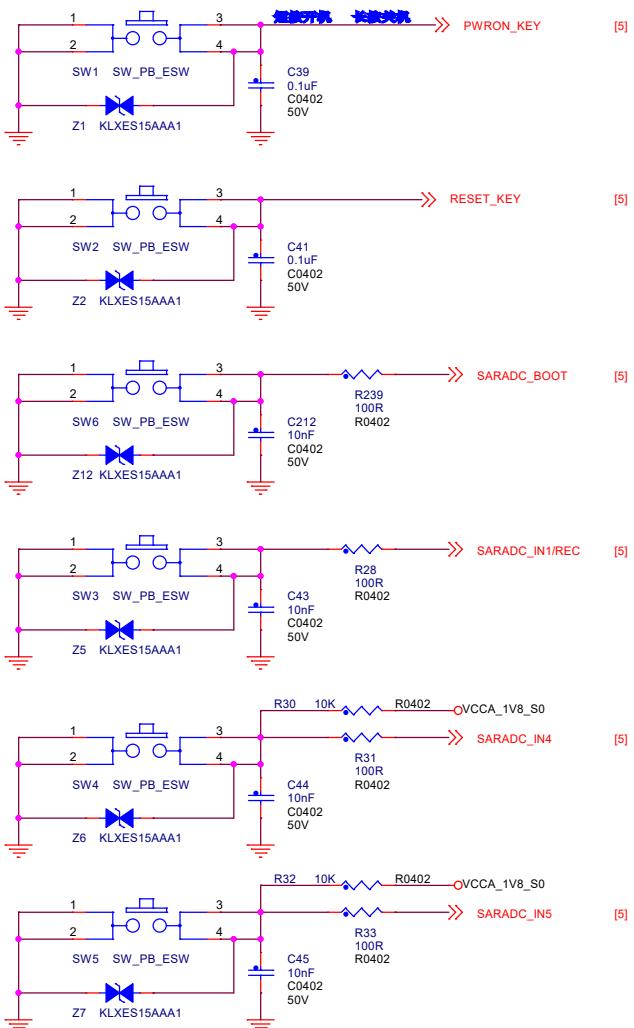


OR Automatically start the machine after power on
NC Press the ON/OFF button to turn on the device

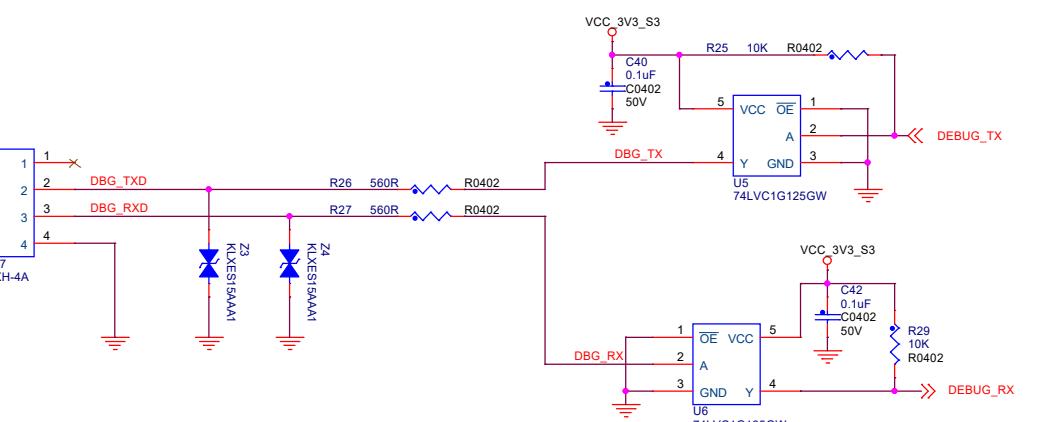


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野火_EBF RK3588S BTB Connector
Size A2 Document Number BTB Connector Rev V0R3
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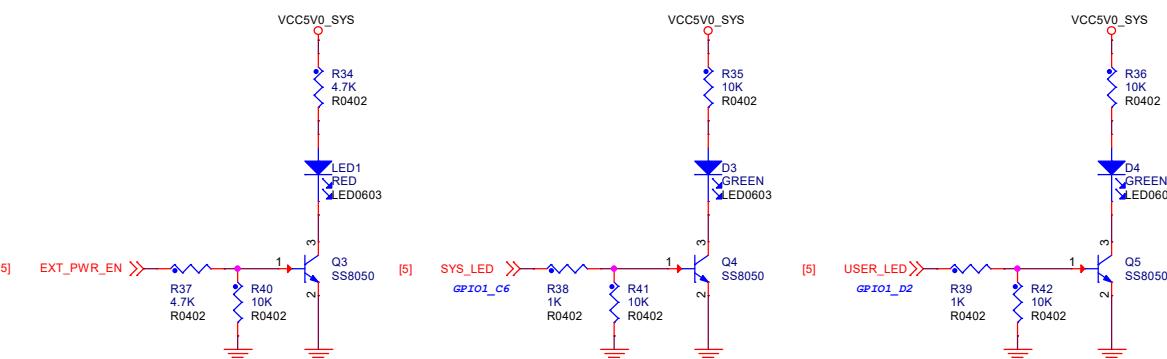
Button



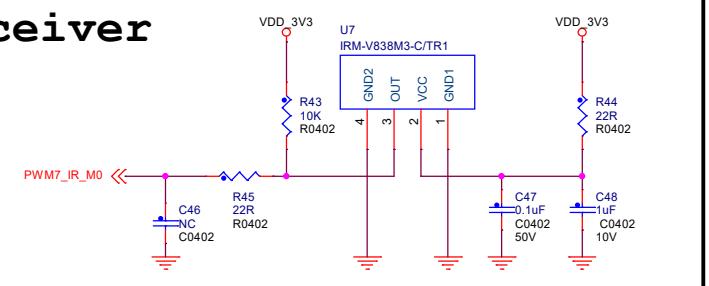
DEBUG



LED

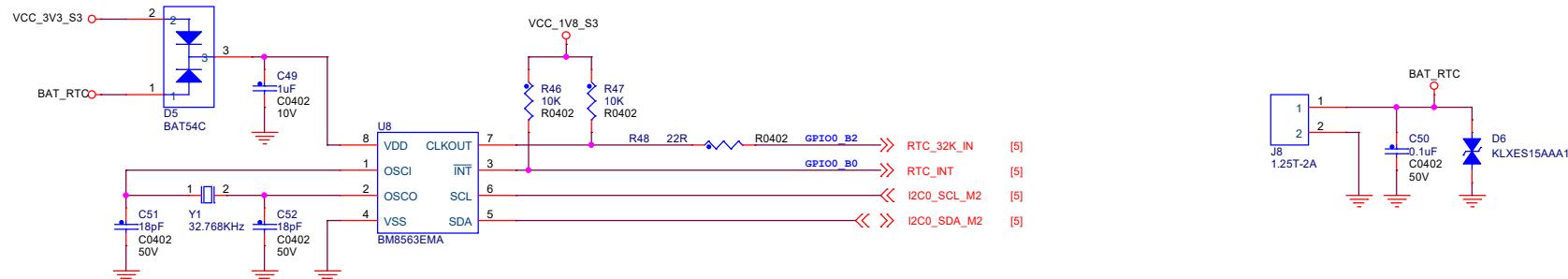


IR Receiver

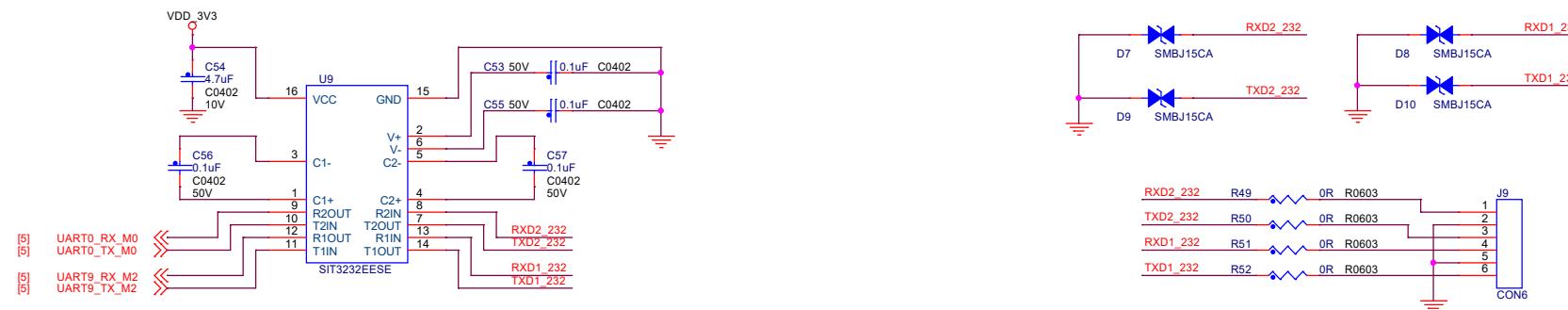


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Size A3	Document Number Button/IR/DEBUG/LED
Rev V0R3	Date: Friday, May 30, 2025

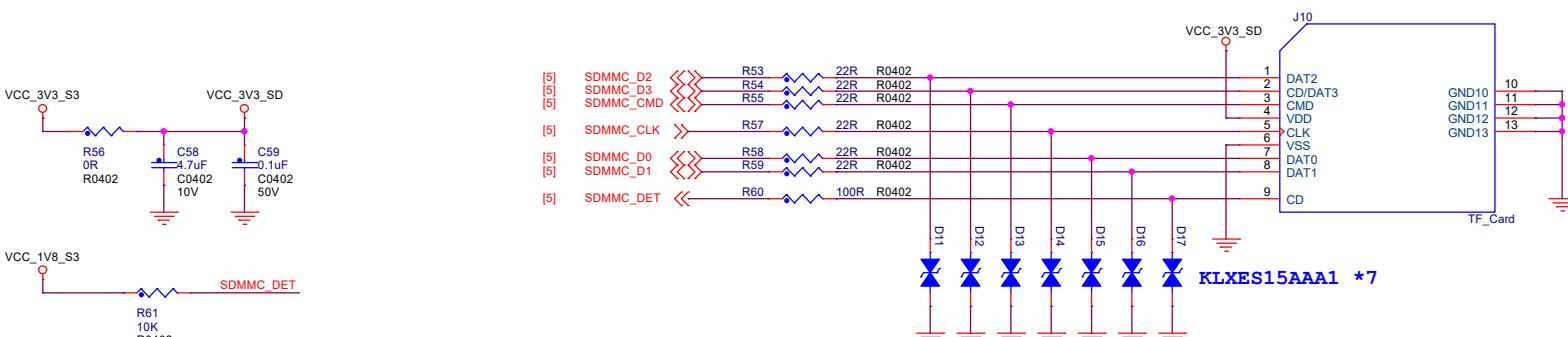
RTC



RS232 PORT

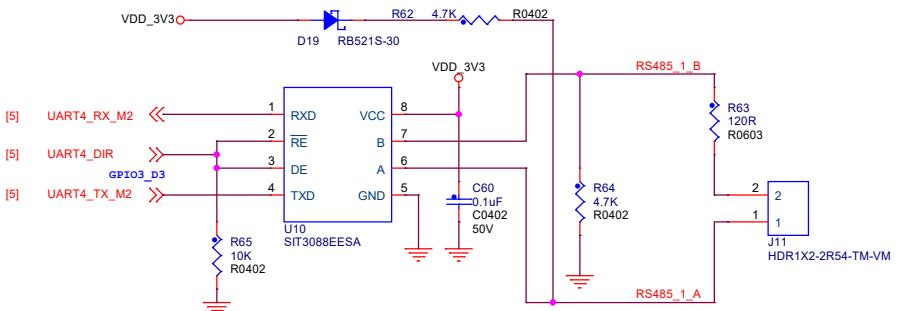


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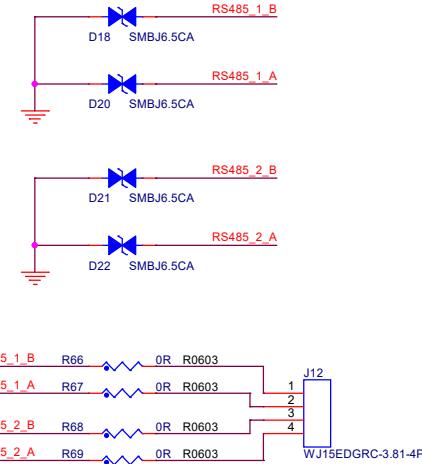


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Size A3	Document Number RTC/SD/RS232
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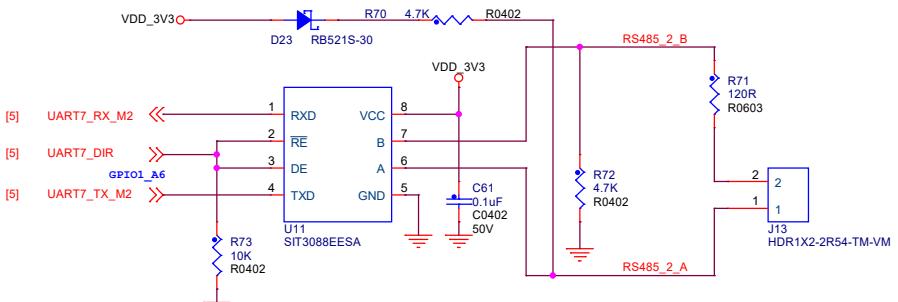
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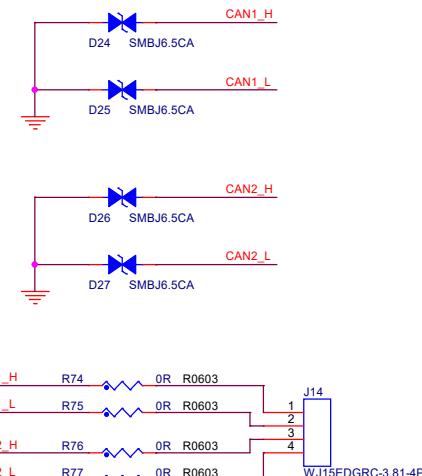
RS485 PORT



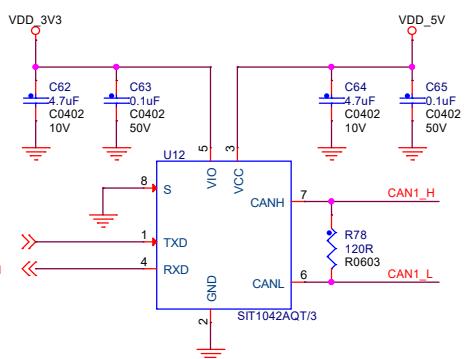
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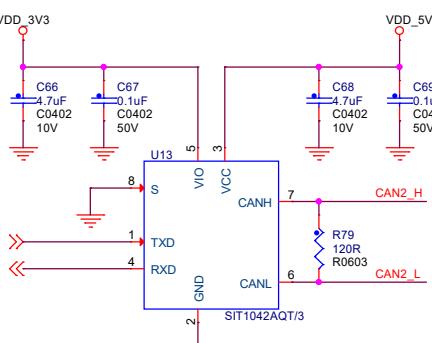
CAN PORT



CAN-1



CAN-2



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Size A3 Document Number RS485/CAN PORT Rev V0R3

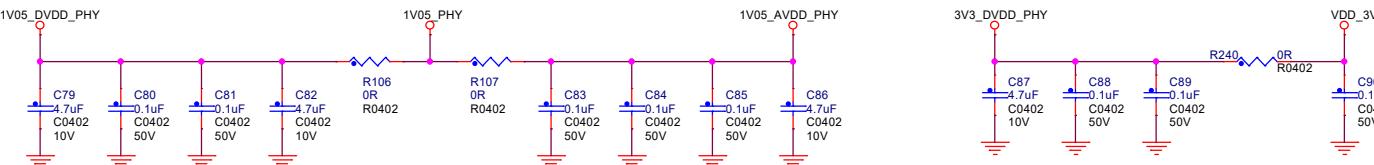
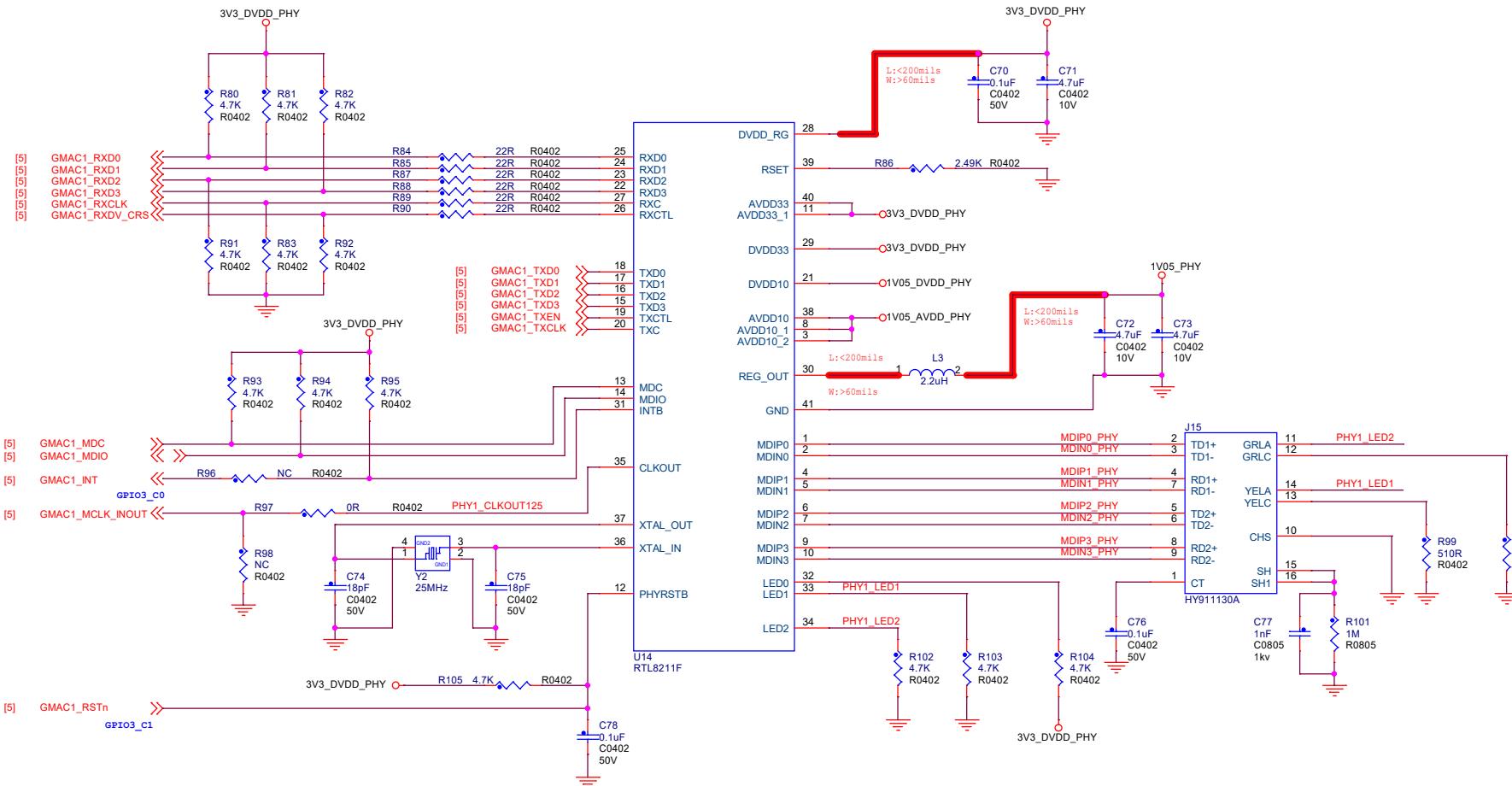
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ETH

TXC / RXC : delays 2ns

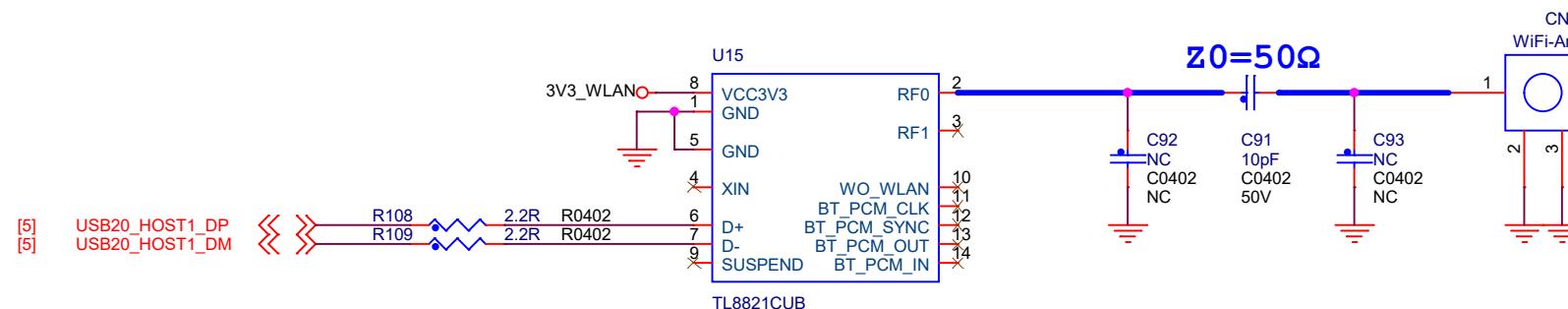
PHY Address : 001

IO use an external power supply: 3.3V

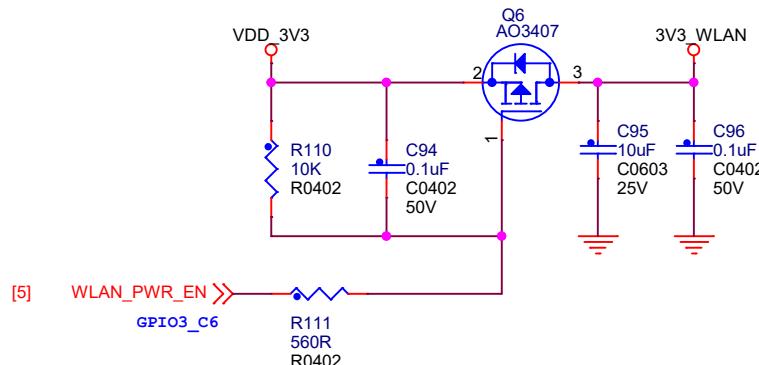


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WLAN & BT



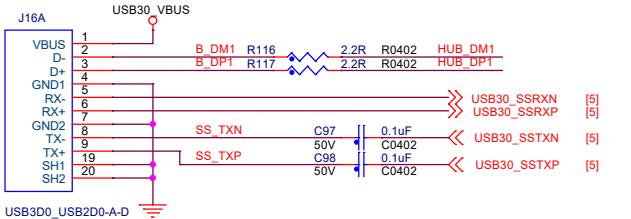
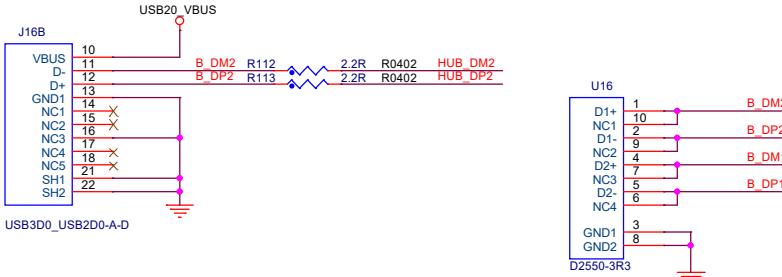
WLAN Power



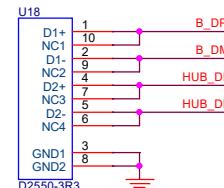
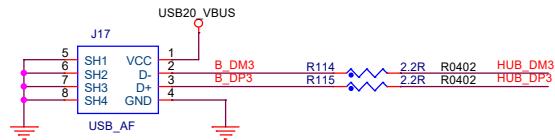
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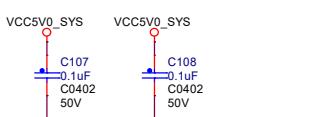
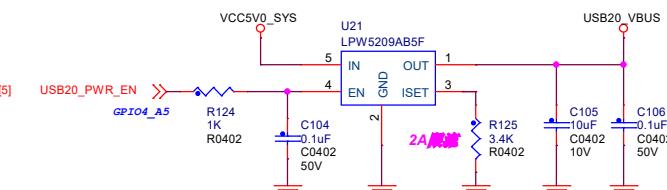
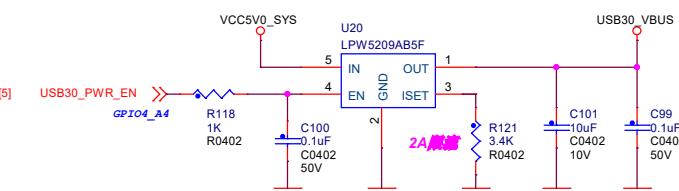
USB3.0 HOST & USB2.0 HOST



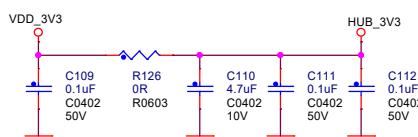
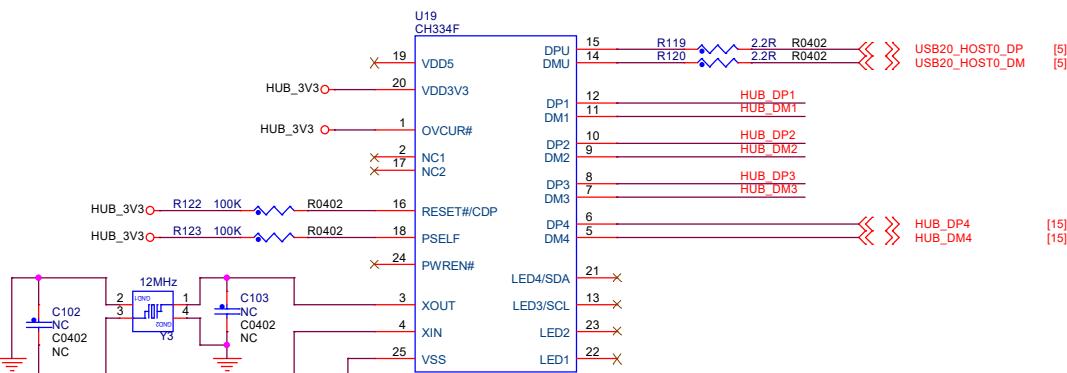
USB2.0 PORT



HOST Power

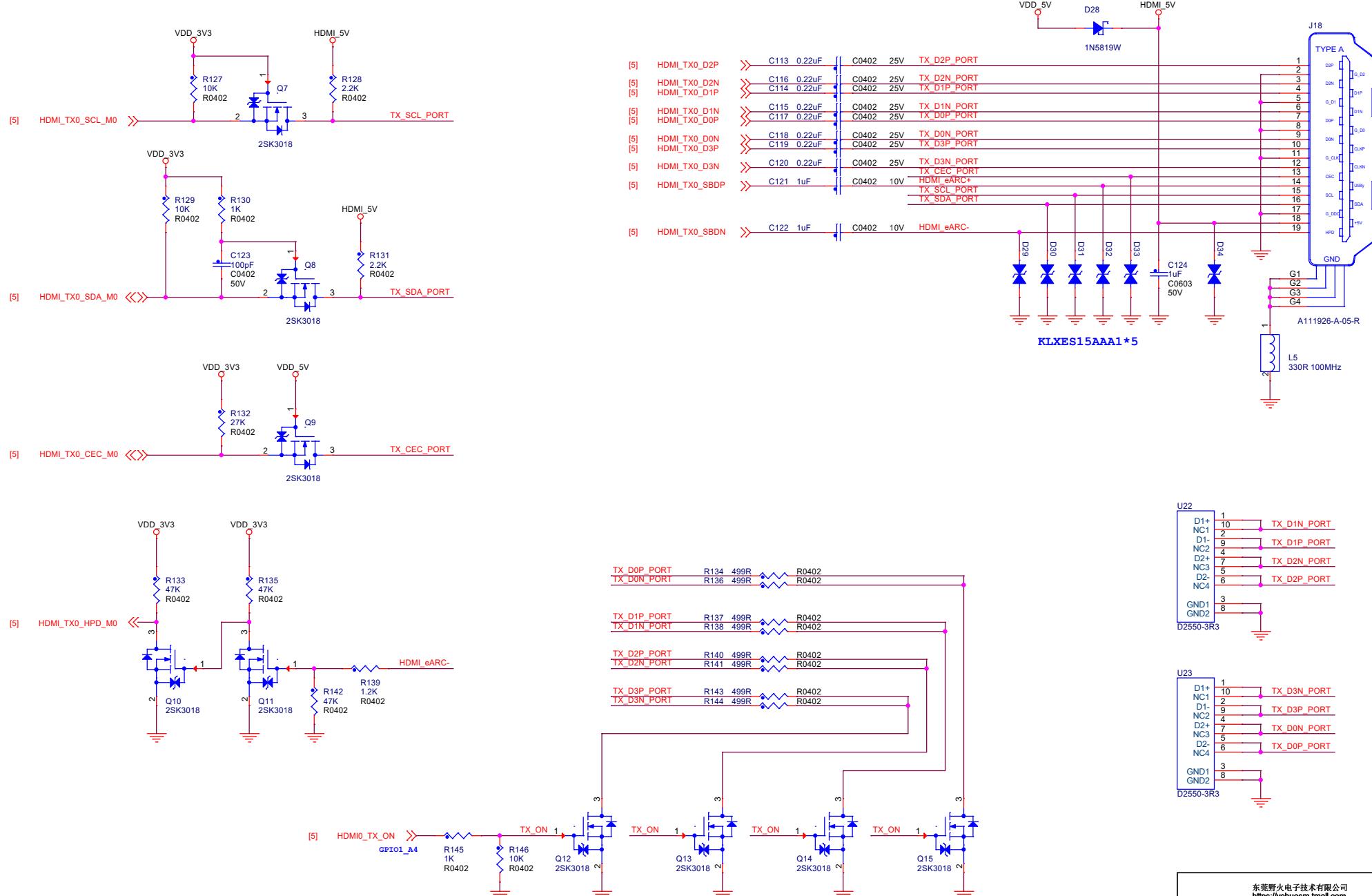


USB 2.0 HUB PHY



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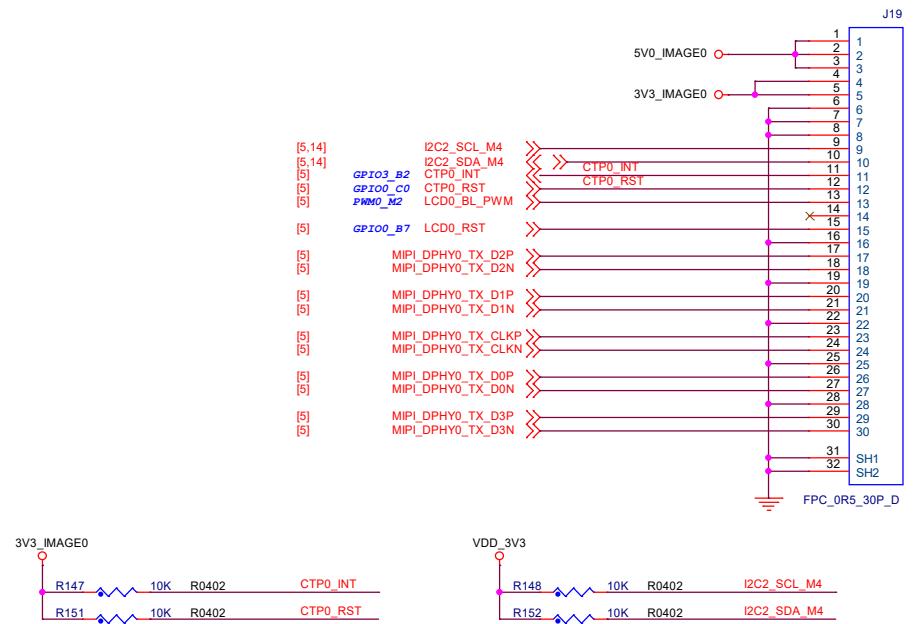
HDMI2.1 PORT



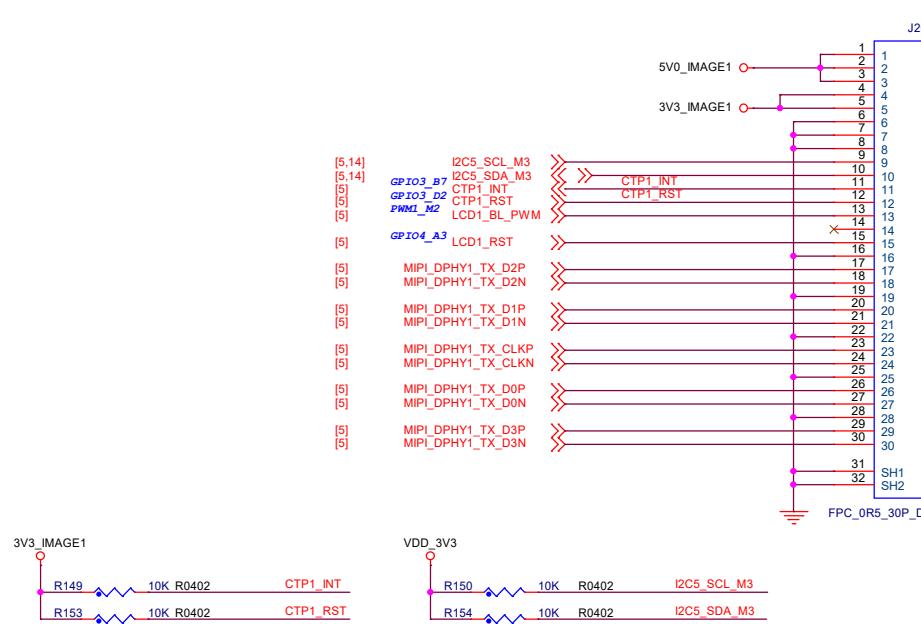
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野火_EBF RK3588S BTB底板		
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A3	HDMI PORT	V0R3
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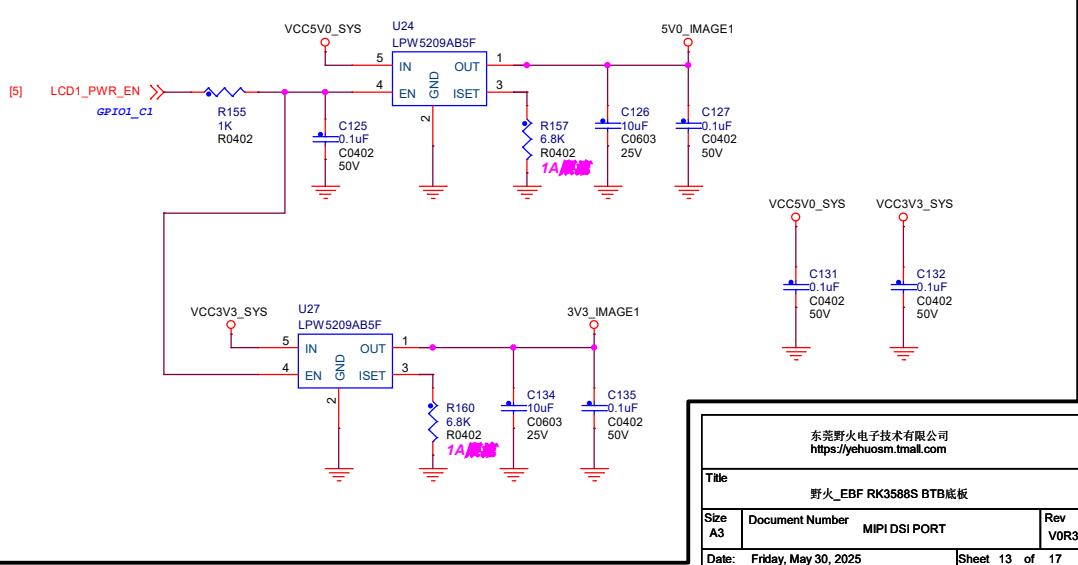
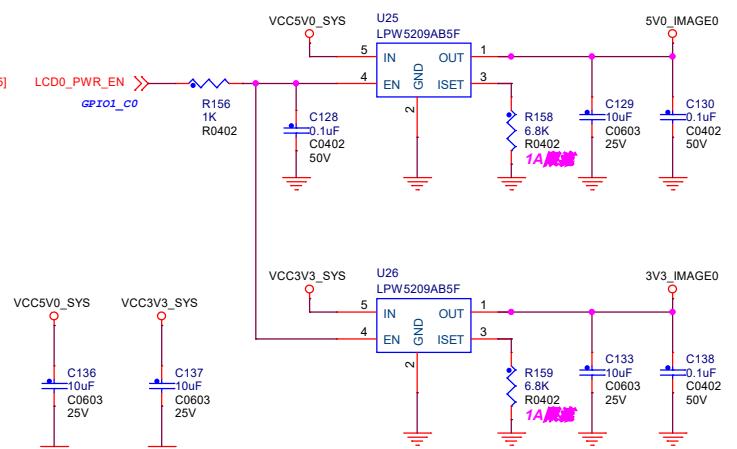
MIPI_DSI_TX0 PORT



MIPI_DSI_TX1 PORT



MIPI DSI Power



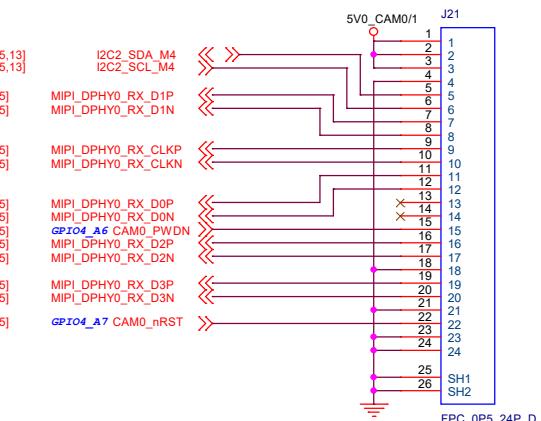
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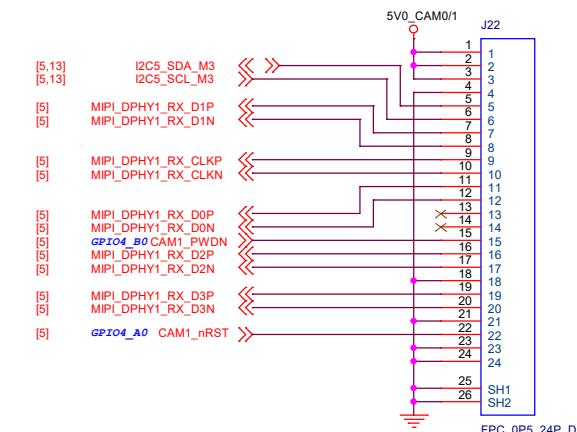
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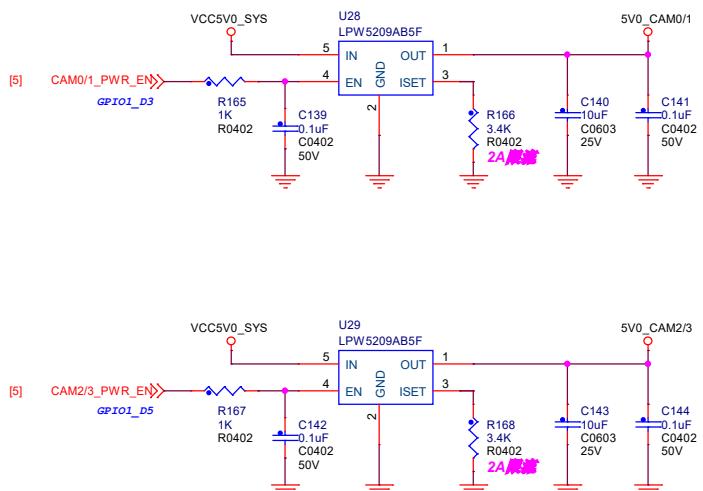
MIPI CSI 0 PORT



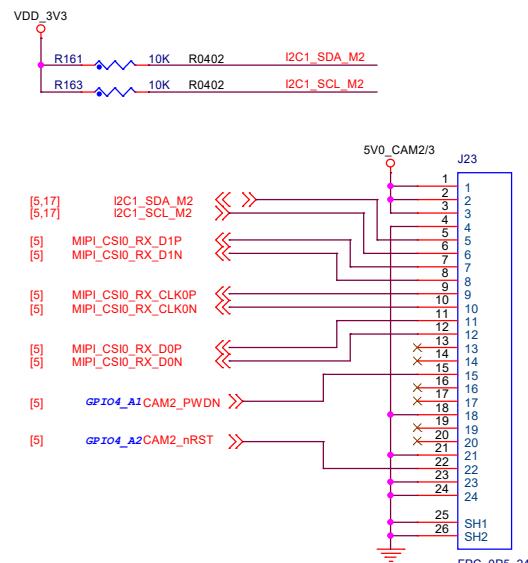
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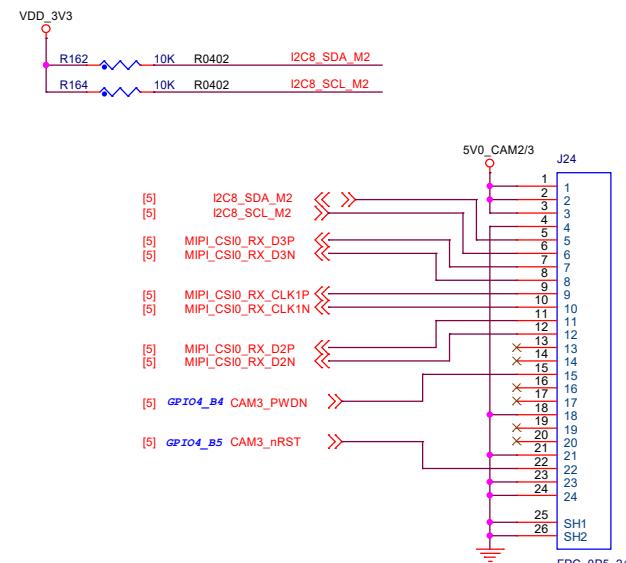
MIPI CSI Power



MIPI CSI 2 PORT



MIPI CSI 3 PORT



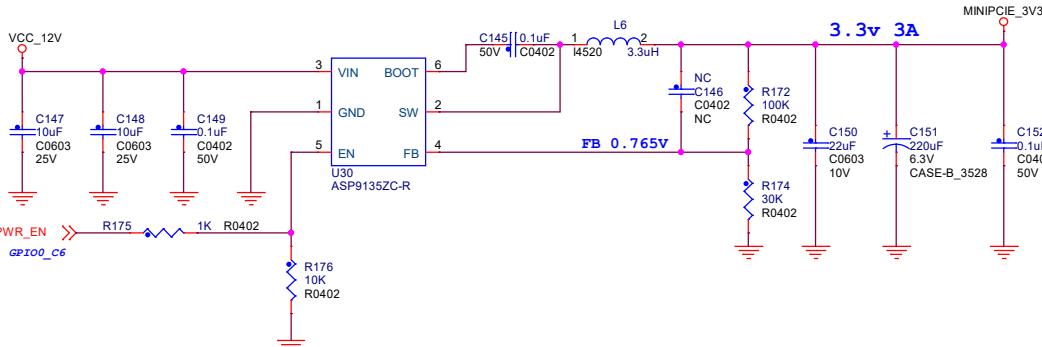
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Title: 野火_EBF RK3588S BTB底板

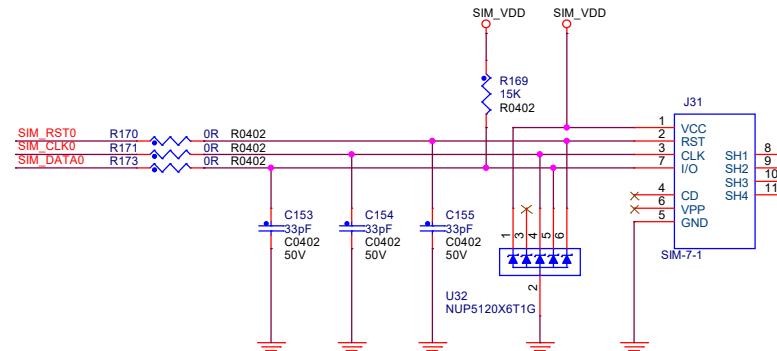
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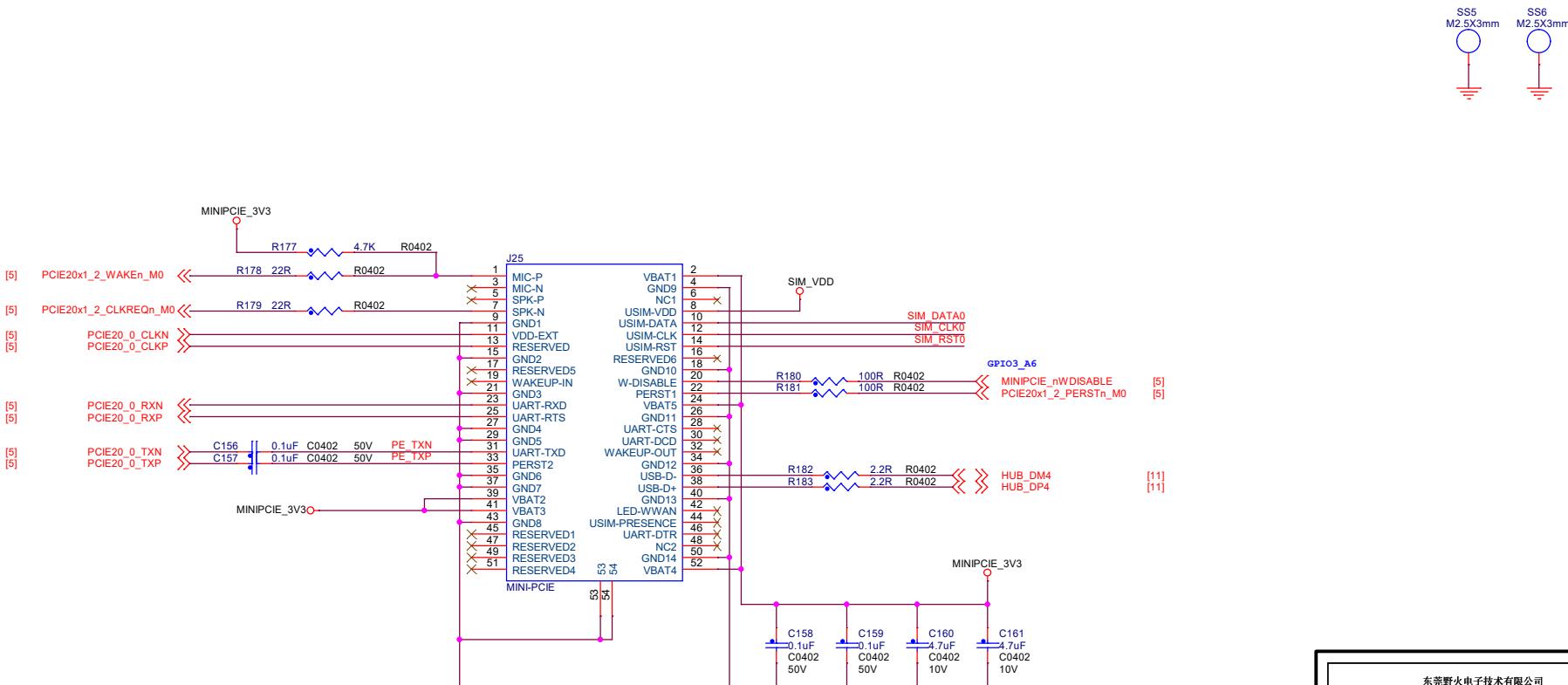
MINI PCIE POWER



SIM CARD



MINI PCIE



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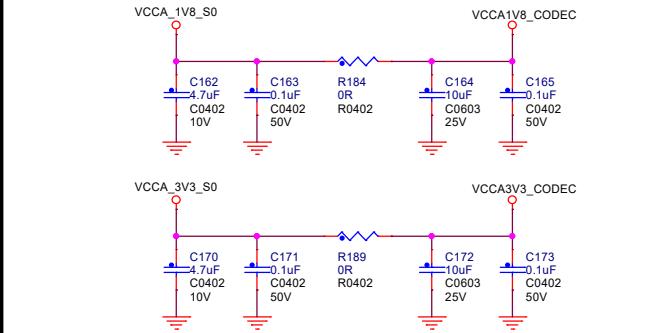
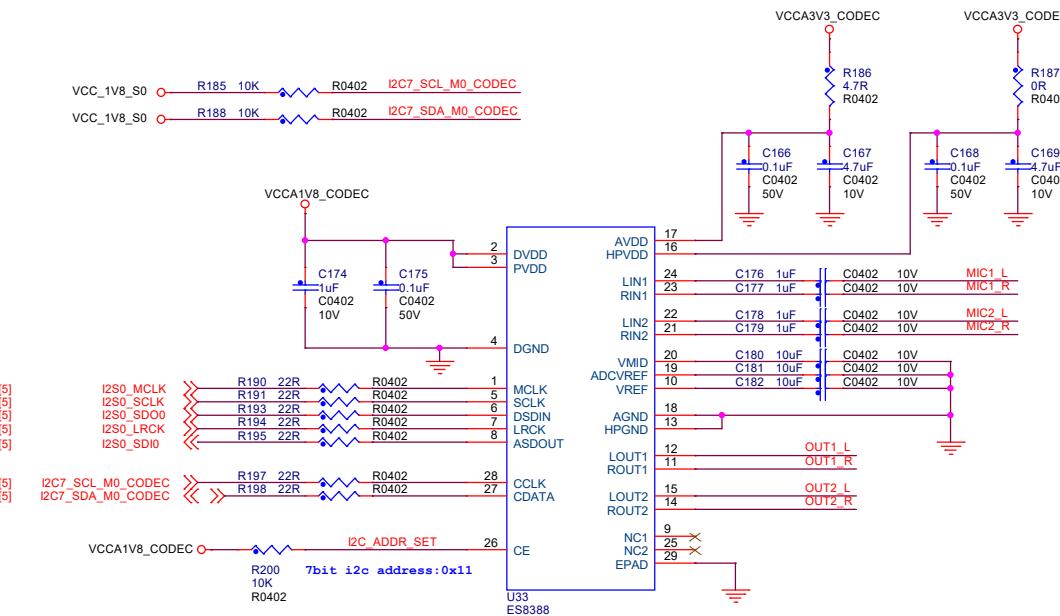
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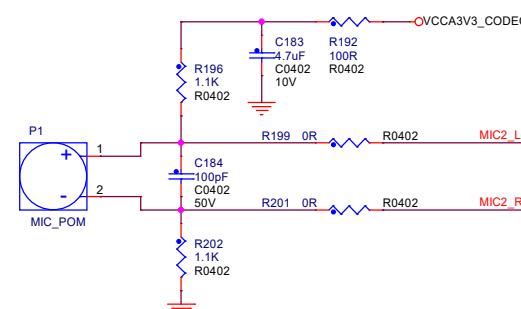
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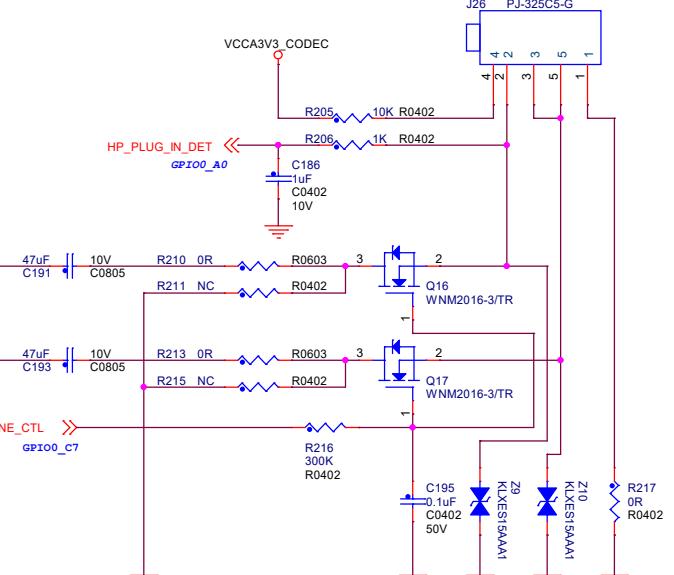
AUDIO CODEC



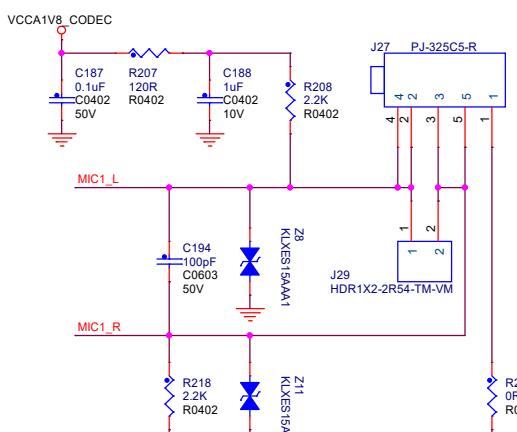
MIC



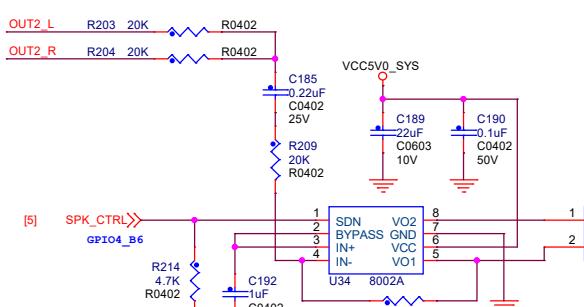
EarPhone PORT



MIC PORT



SPK PA



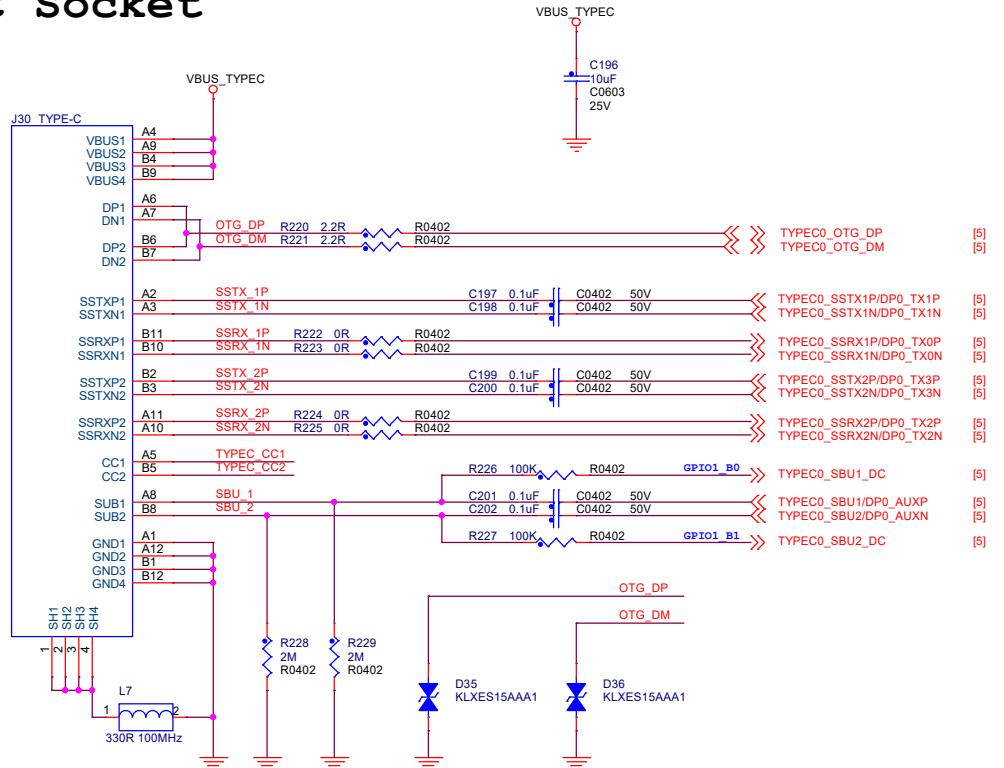
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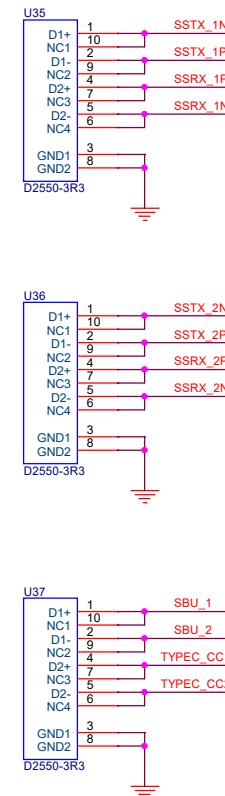
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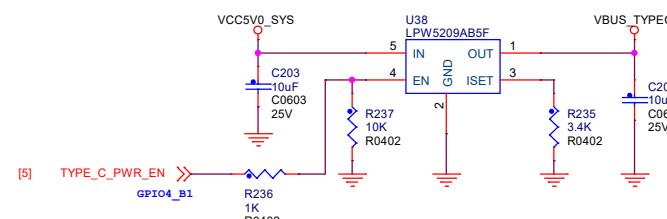
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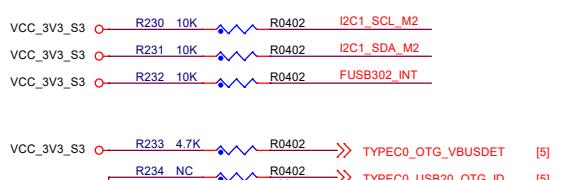
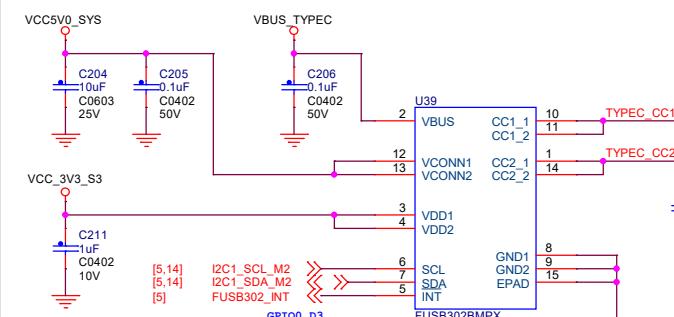
ESD



TYPE C Power



CC Handshake Chip



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