

54321

野火_ZYNQ7010 BTB 底板_原理图_V1.1

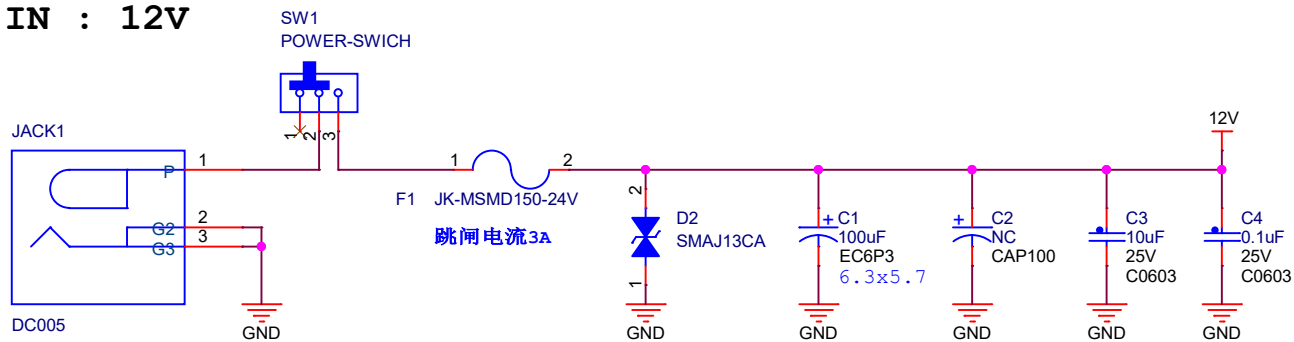
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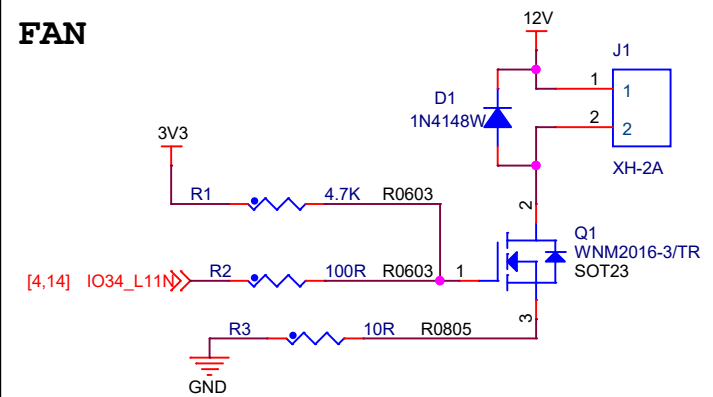
历史版本

版本号	日期	设计	描述
V0.1	2020-10-26	xgh	初始版本
V1.0	2023-06-26	ghs	BTB初始版本
V1.1	2023-09-19	ghs	修正JTAG接口定义错误，修正音频接口封装错误

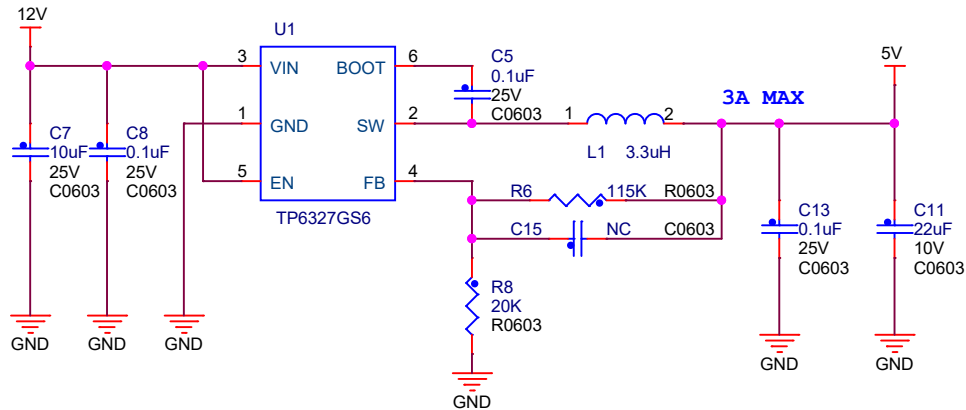
DC IN : 12V



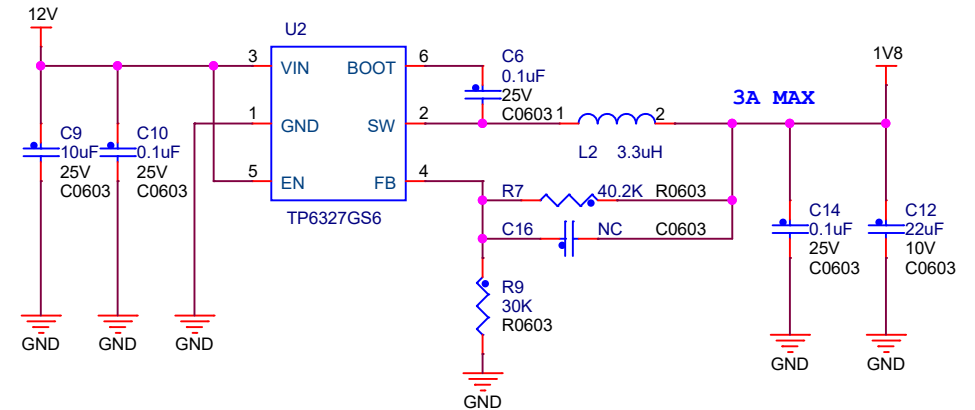
FAN



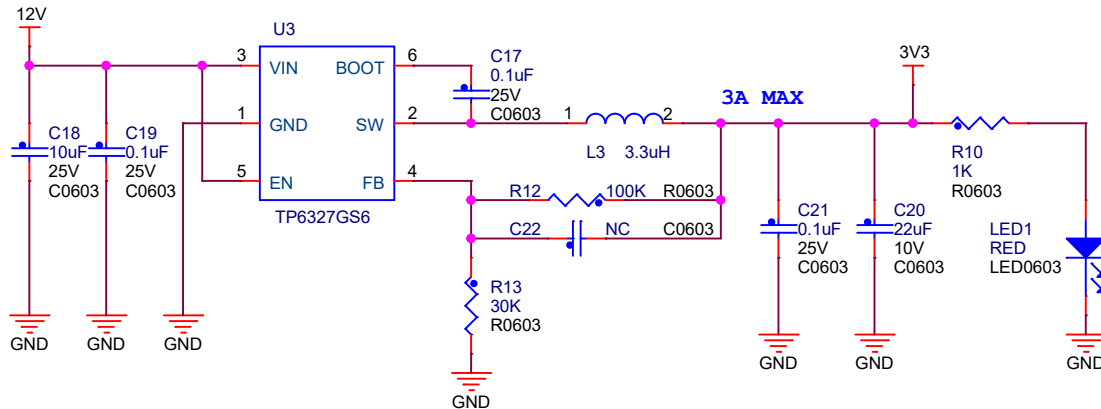
DC/DC 5V



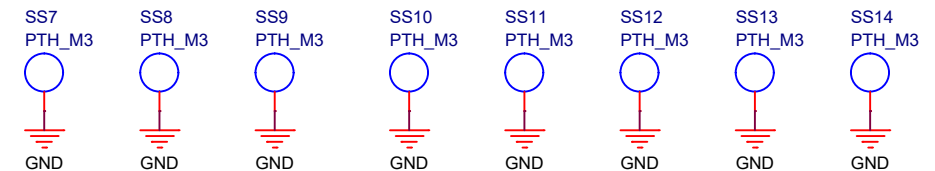
DC/DC 1.8V



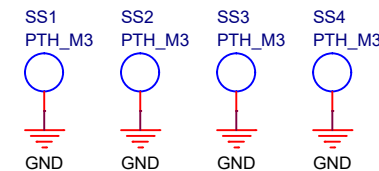
DC/DC 3.3V



4.3寸屏幕固定孔



亚克力固定孔



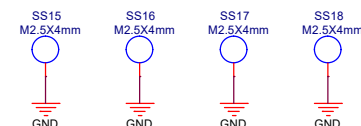
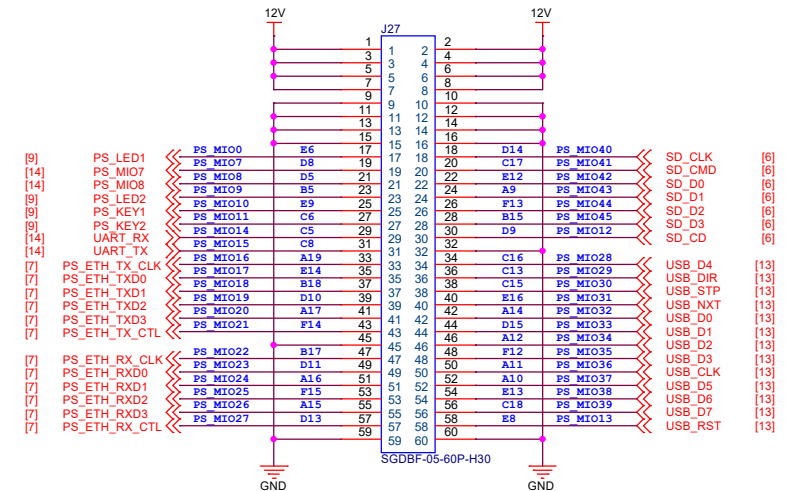
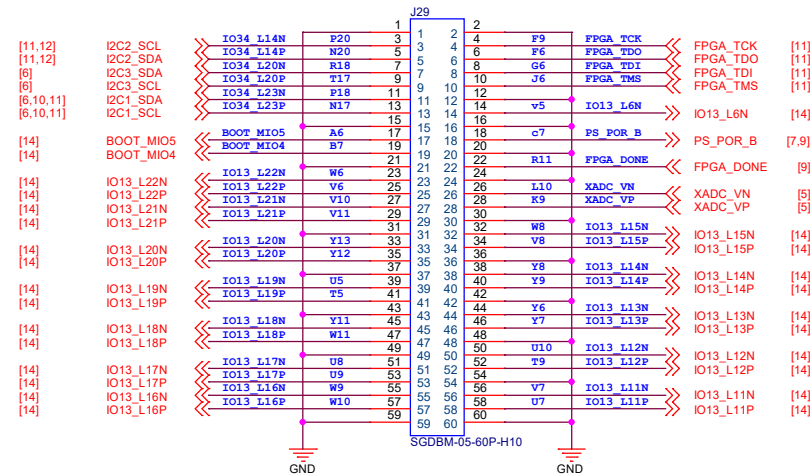
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Title 野火_ZYNQ7010底板_原理图

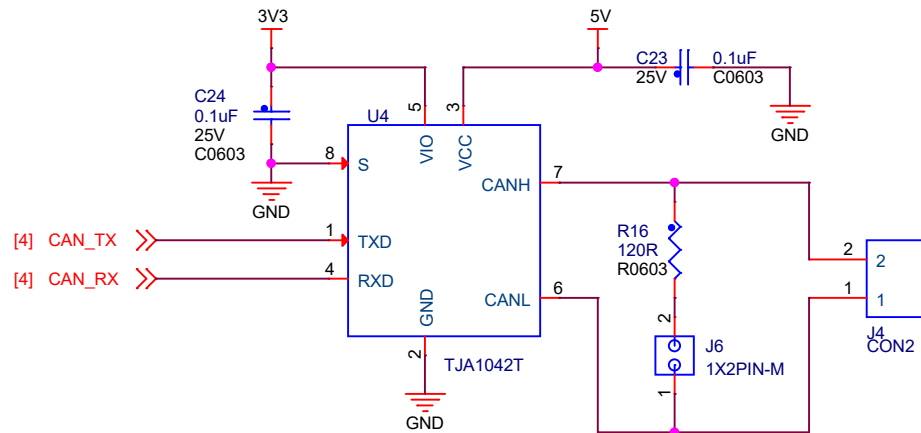
Size A4 Document Number 电源 Rev V1.1

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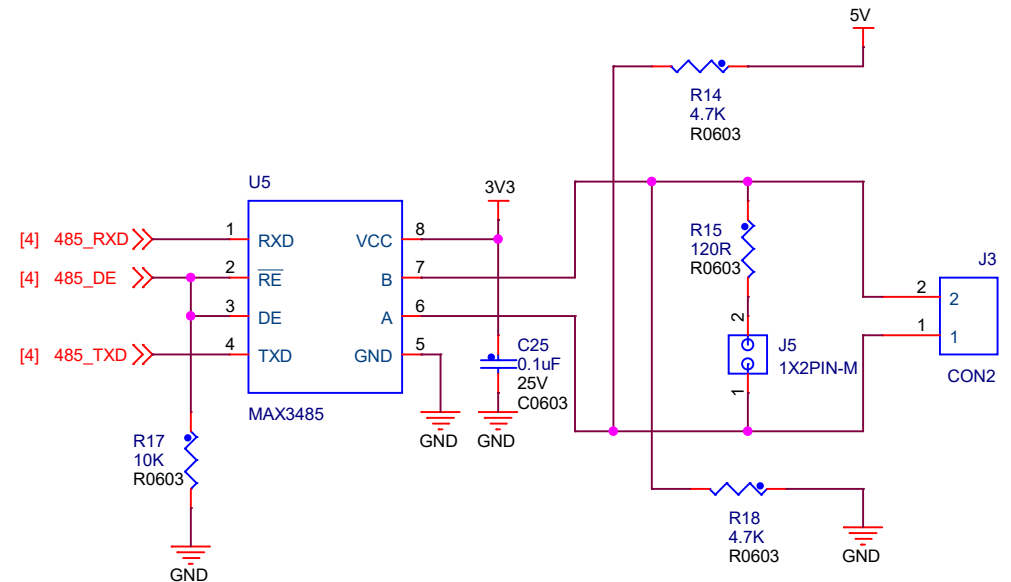
60*4个引脚包含	
XADC	2
POR	1
DONE	1
PS_IO	42
PL_IO	124
JTAG	4
12V输入	4
GND	55
BOOT	2



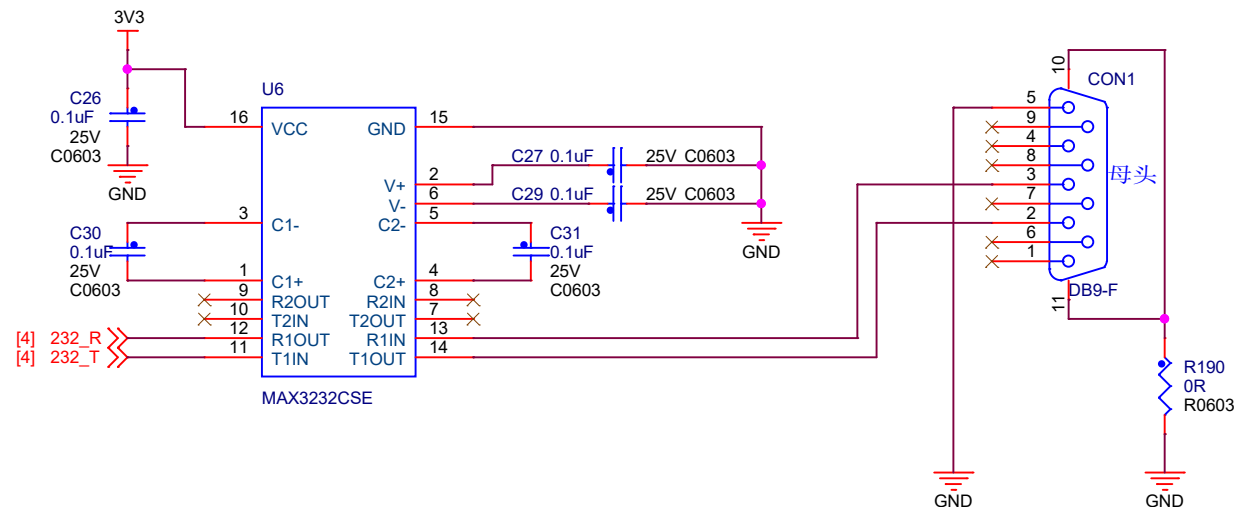
CAN



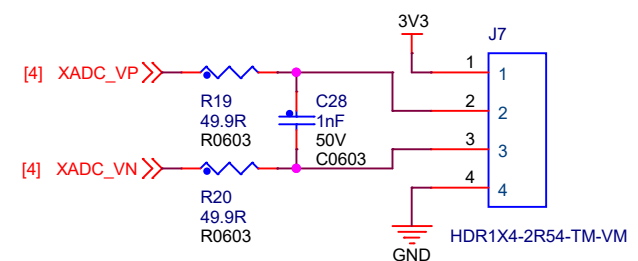
RS485



RS232串口



ADC



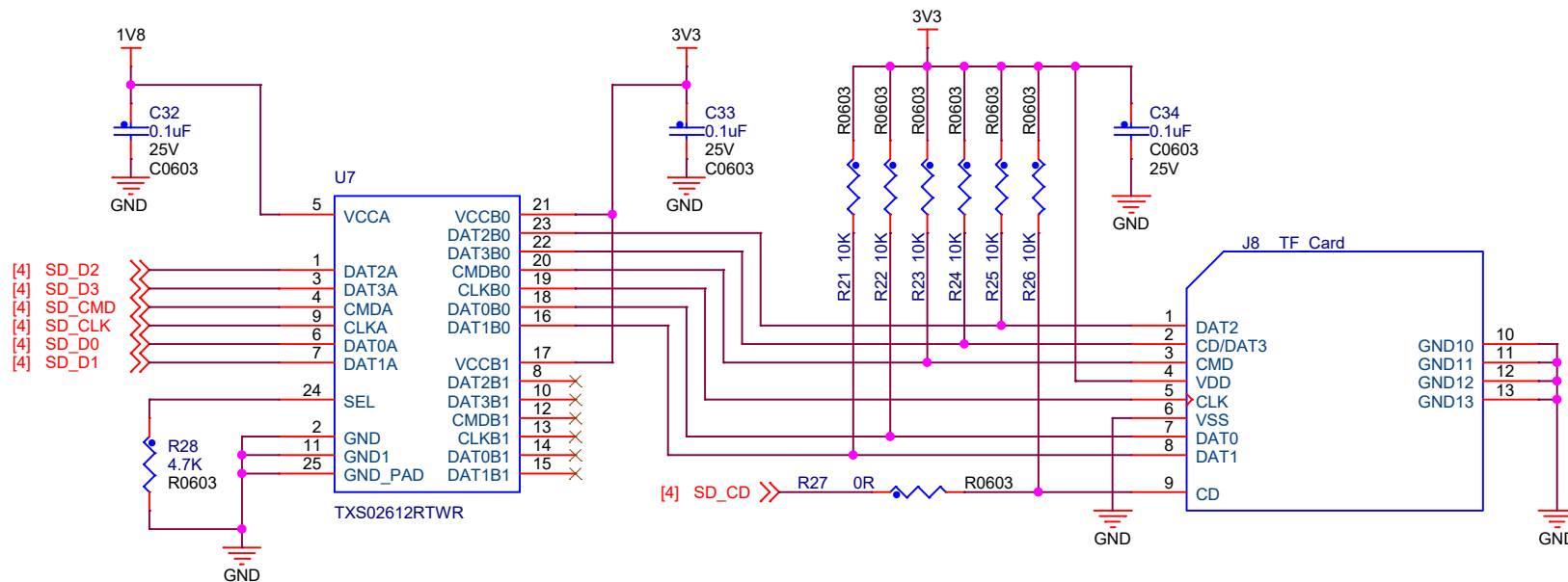
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Size A4 Document Number CAN/RS485/RS232/ADC Rev V1.1

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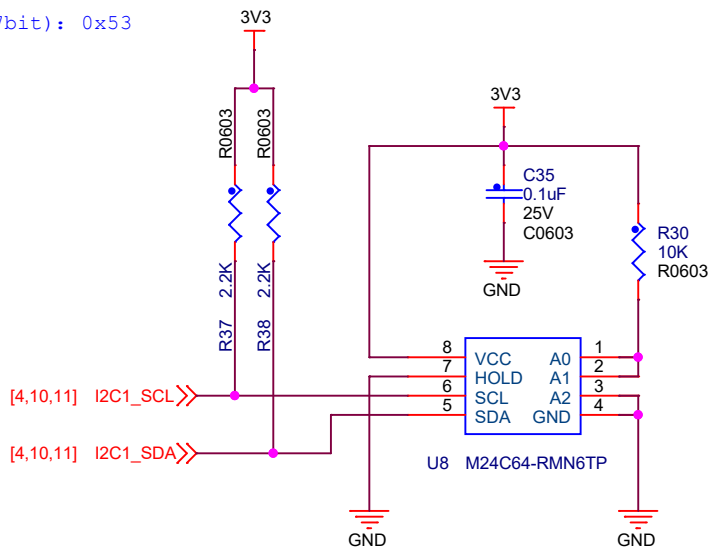
SD卡



EEPROM

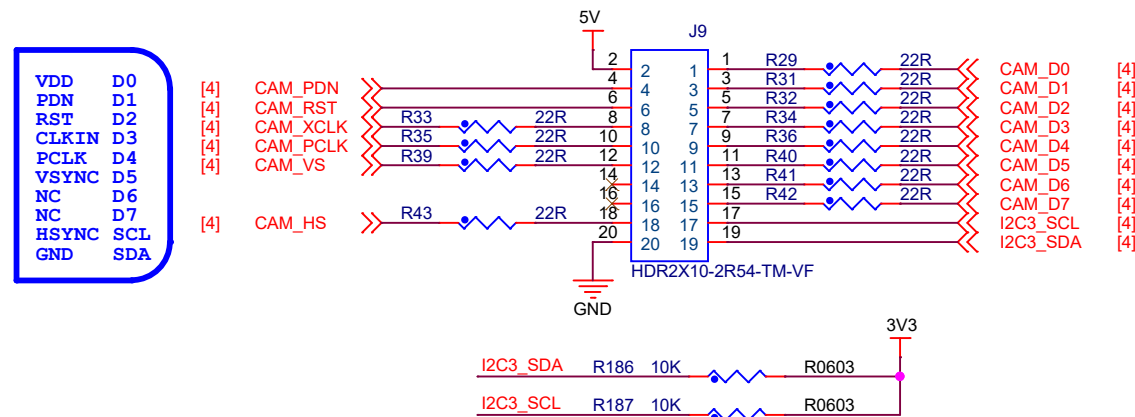
容量: 8K字节

I2C地址(7bit): 0x53



摄像头接口

OV5640_I2C地址(7bit): 0x3C
OV7725_I2C地址(7bit): 0x21



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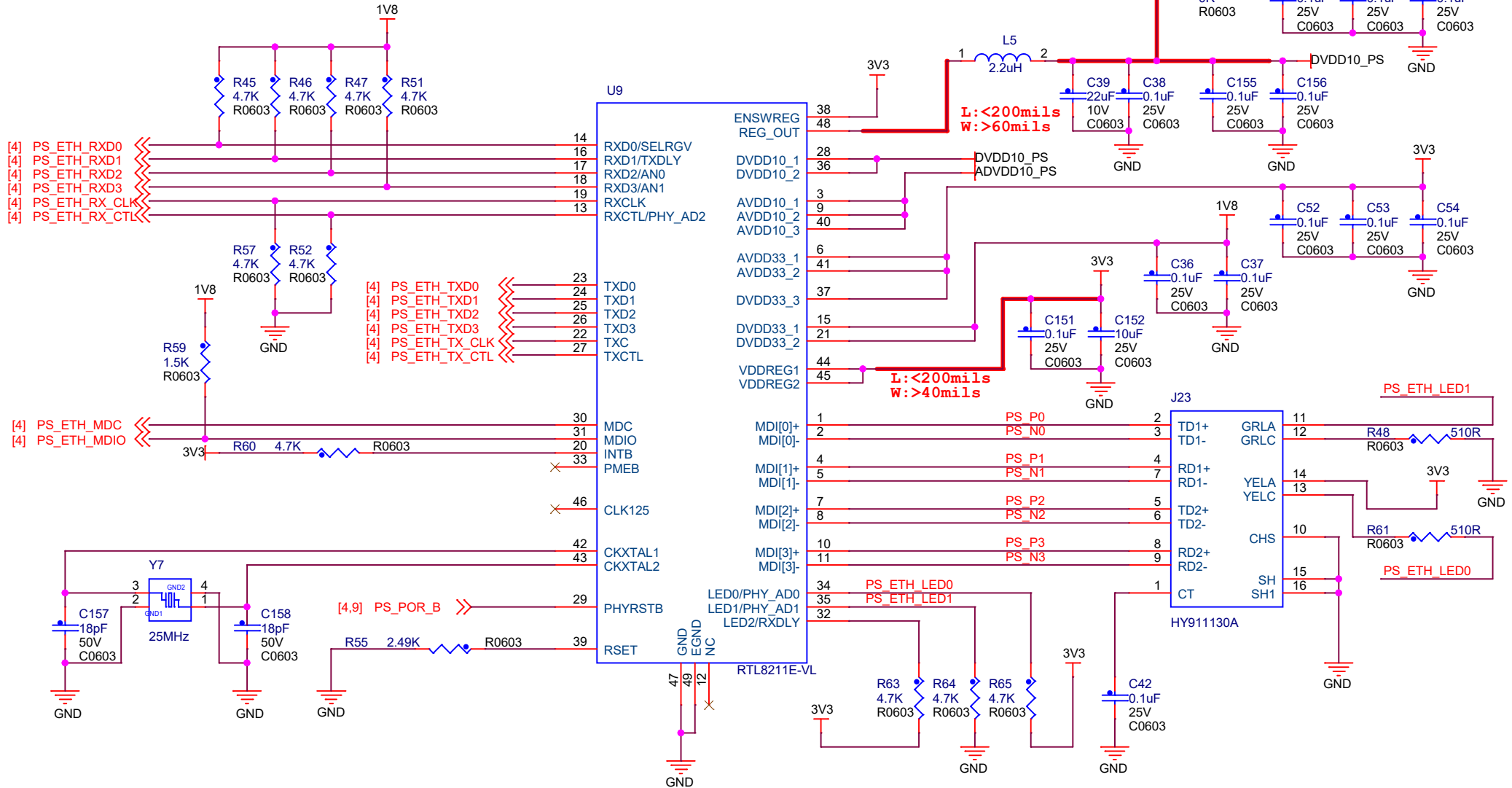
Title
野火_ZYNQ7010底板_原理图

Size A4	Document Number 摄像头/SD卡/EEPROM	Rev V1.1
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以太网PS

TXC / RXC : delays 2ns
PHY Address : 001

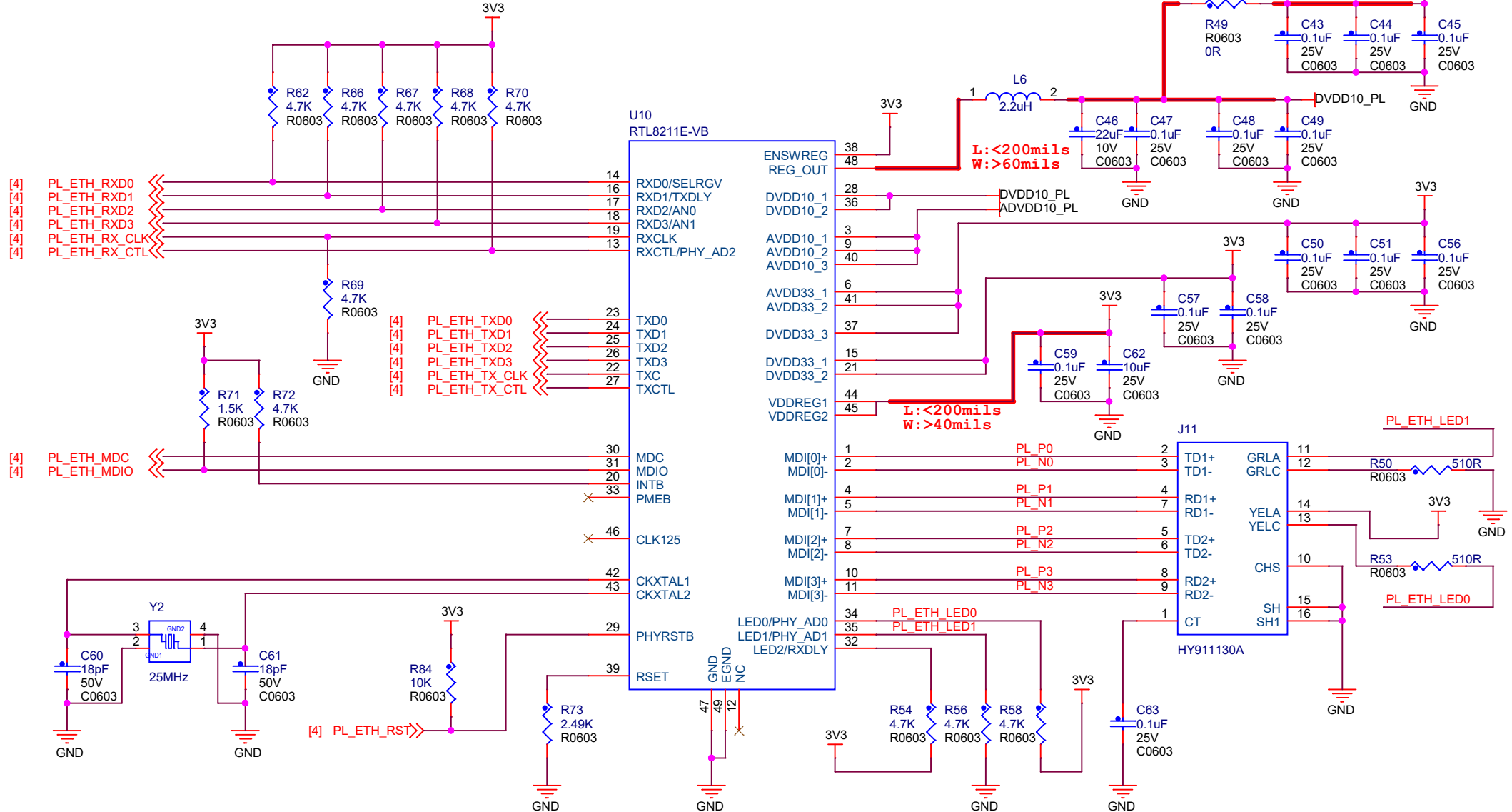


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Title		
野火_ZYNQ7010底板_原理图		
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以太网接口PL

TXC / RXC : delays 2ns
PHY Address : 100



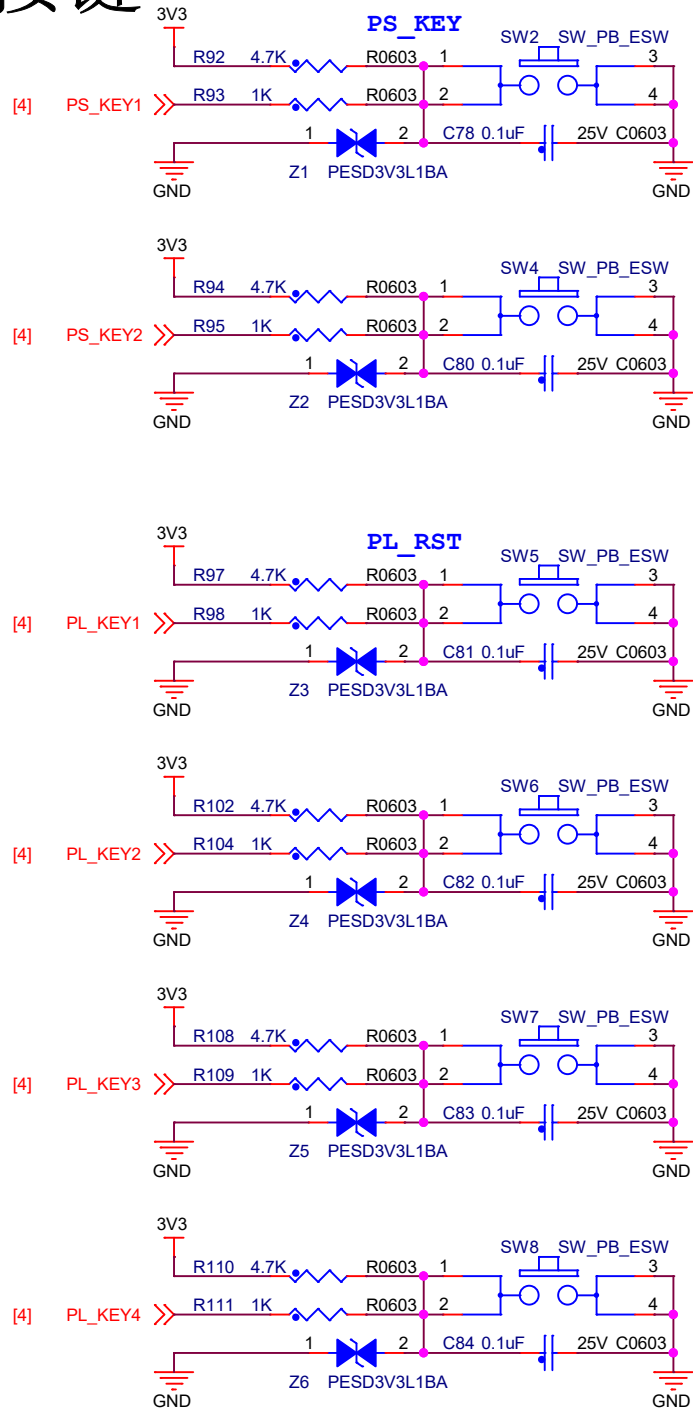
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Title
野火_ZYNQ7010底板_原理图

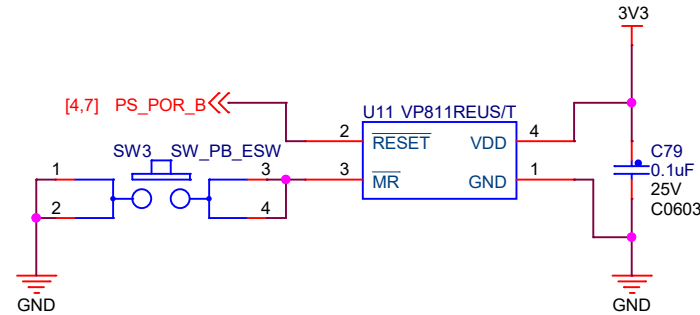
Size A4	Document Number 以太网PL	Rev V1.1
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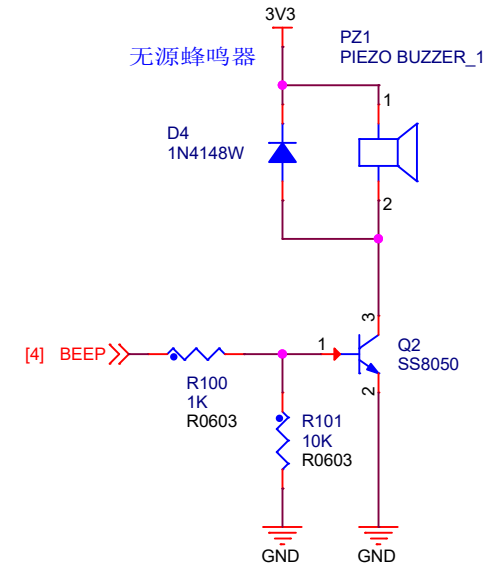
按键



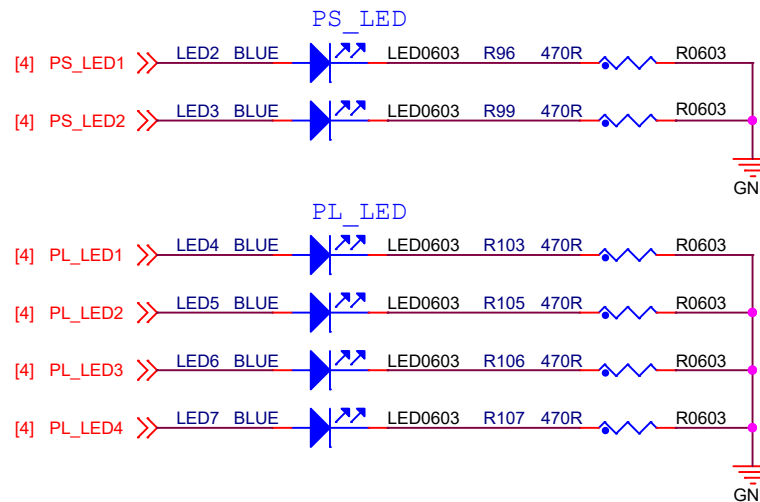
重配置按键



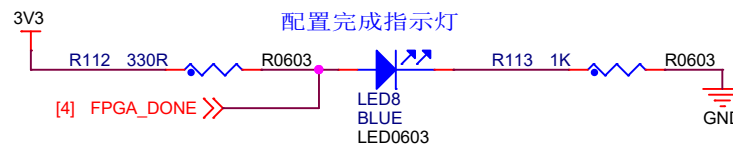
蜂鸣器



USER LED

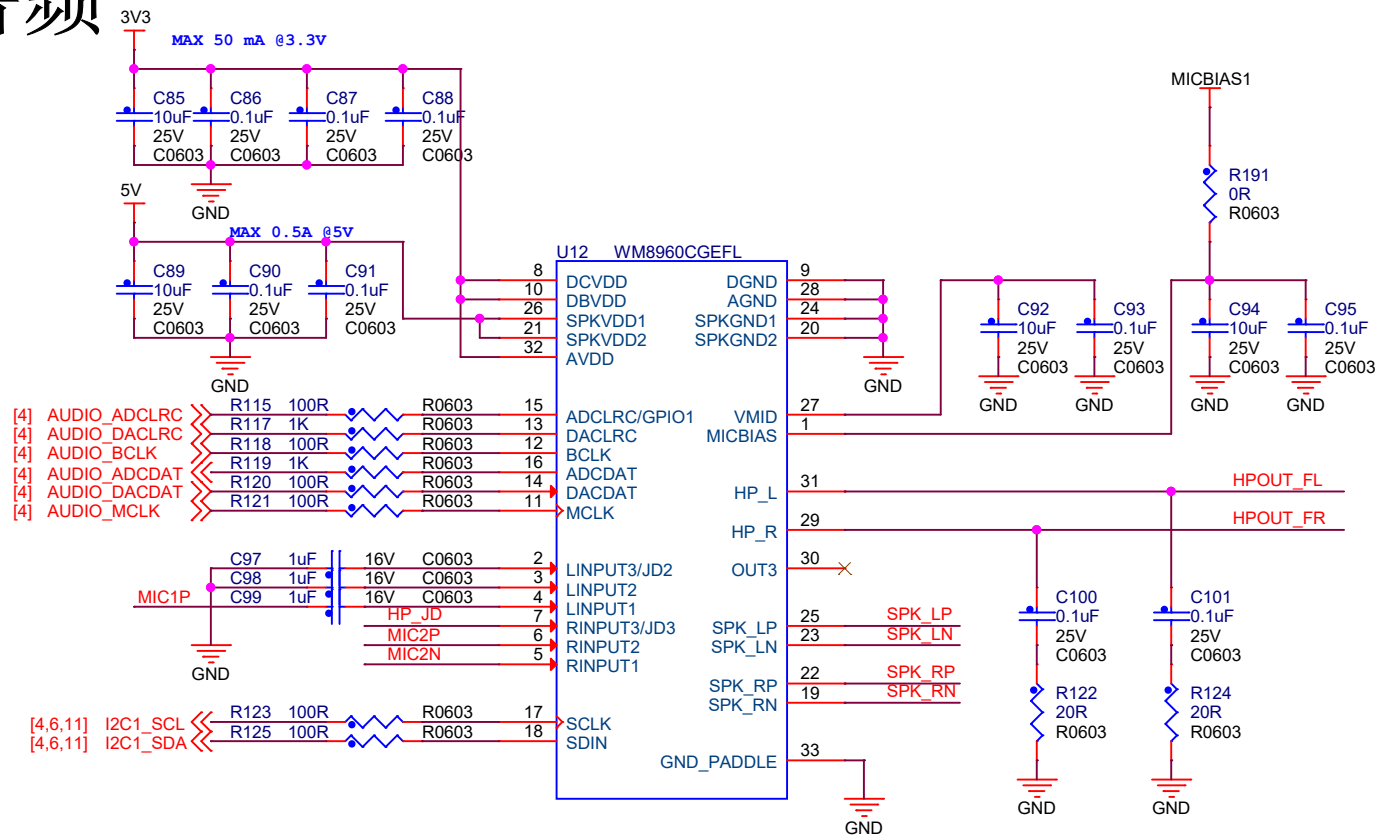


Configure LED

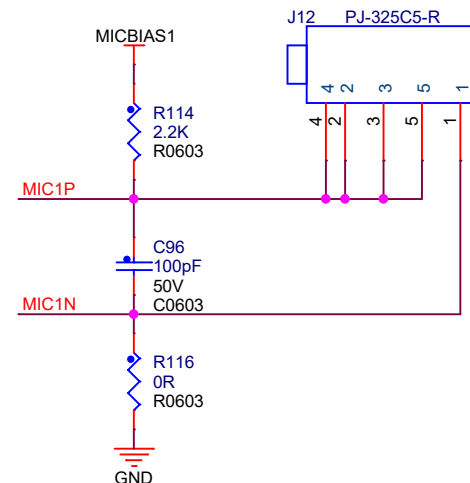


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音频

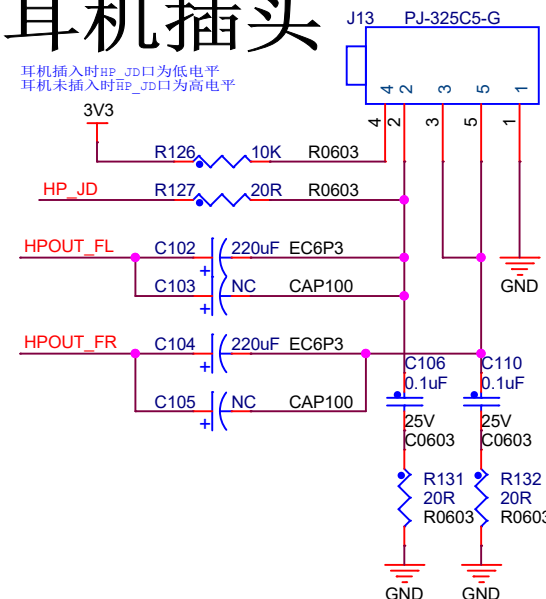


MIC插头

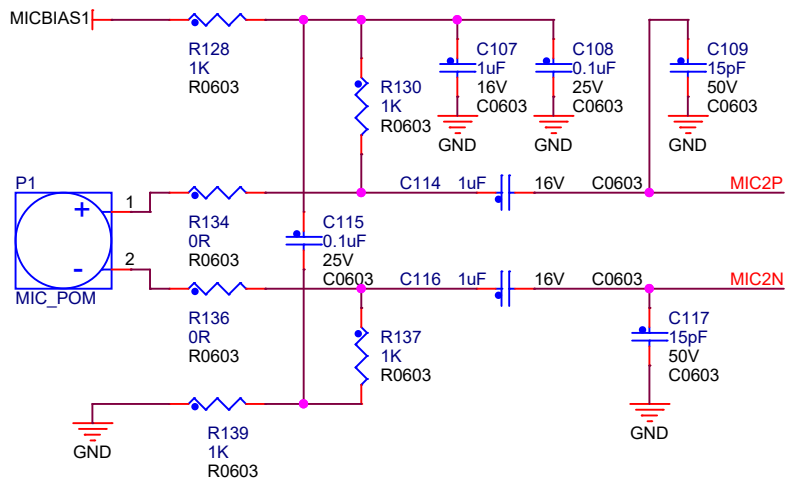


耳机插头

耳机插入时HP_JD口为低电平
耳机未插入时HP_JD口为高电平

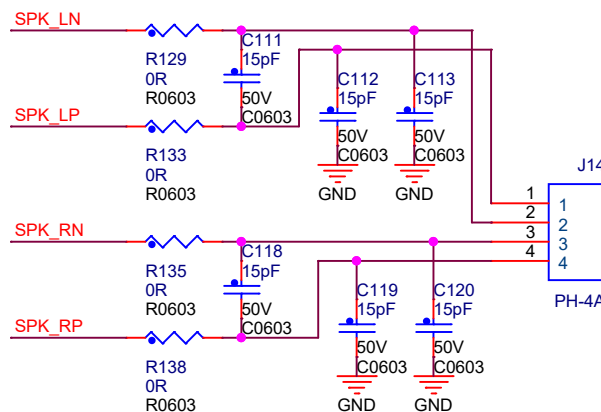


MIC



喇叭插座

可以驱动2个8Ω 1W的喇叭（BTL方式）



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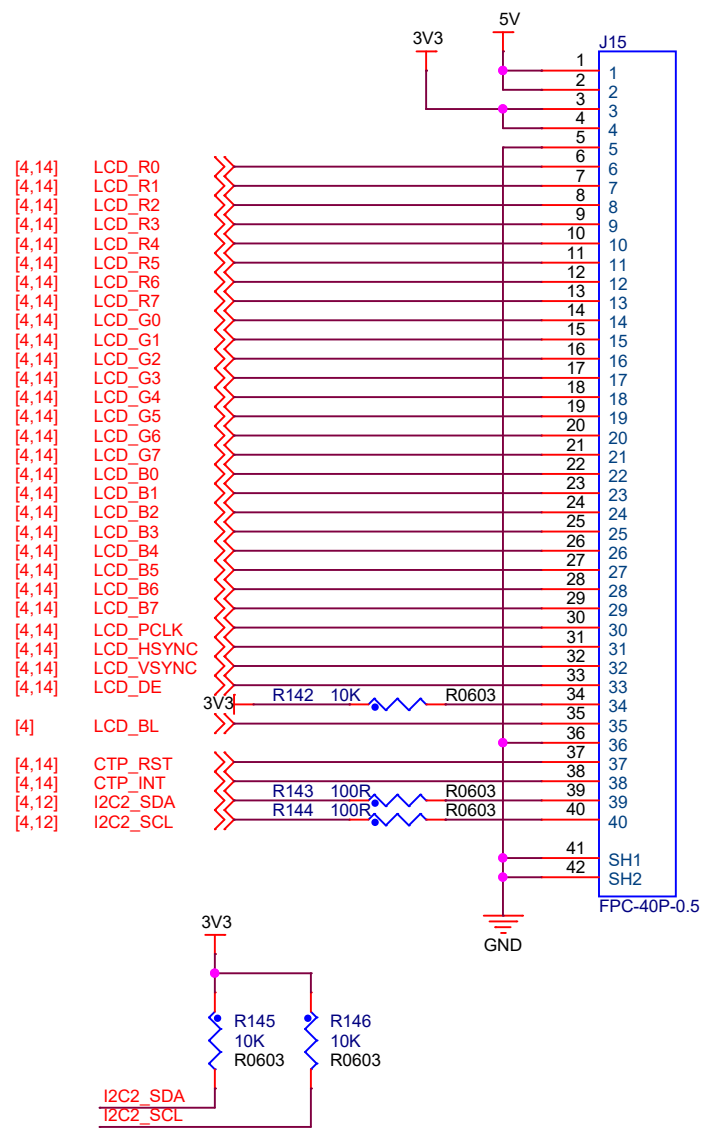
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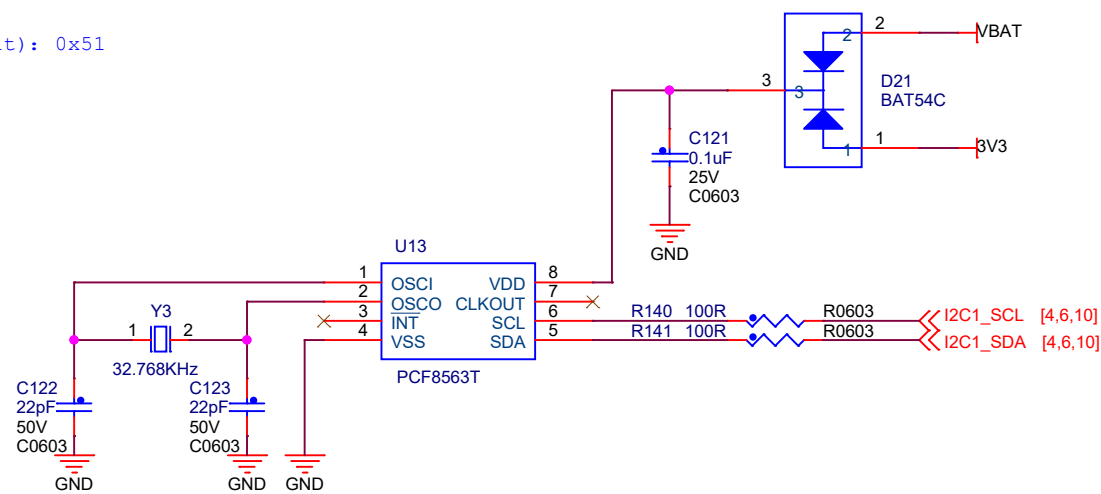
LCD RGB888

I2C地址(7bit): 0x5D

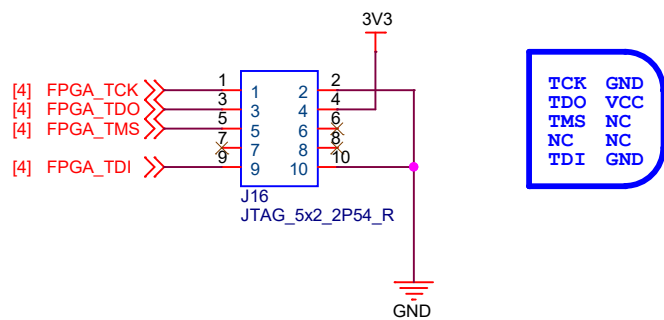


RTC

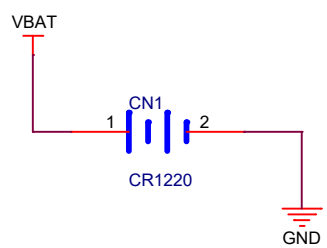
I2C地址(7bit): 0x51



JTAG调试口



RTC电池



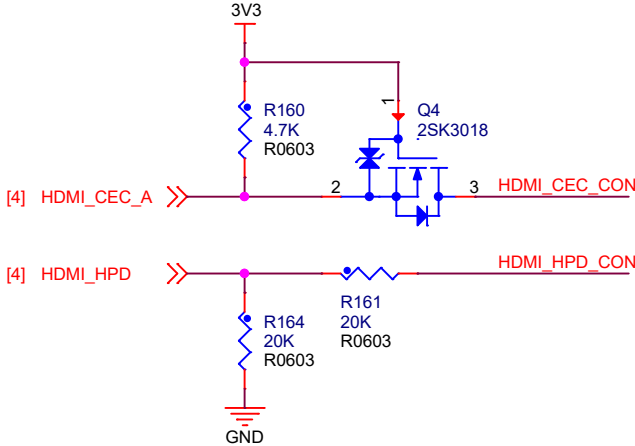
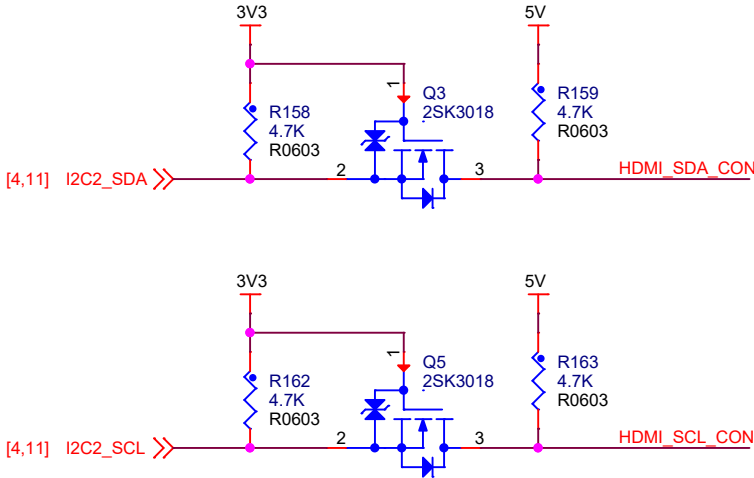
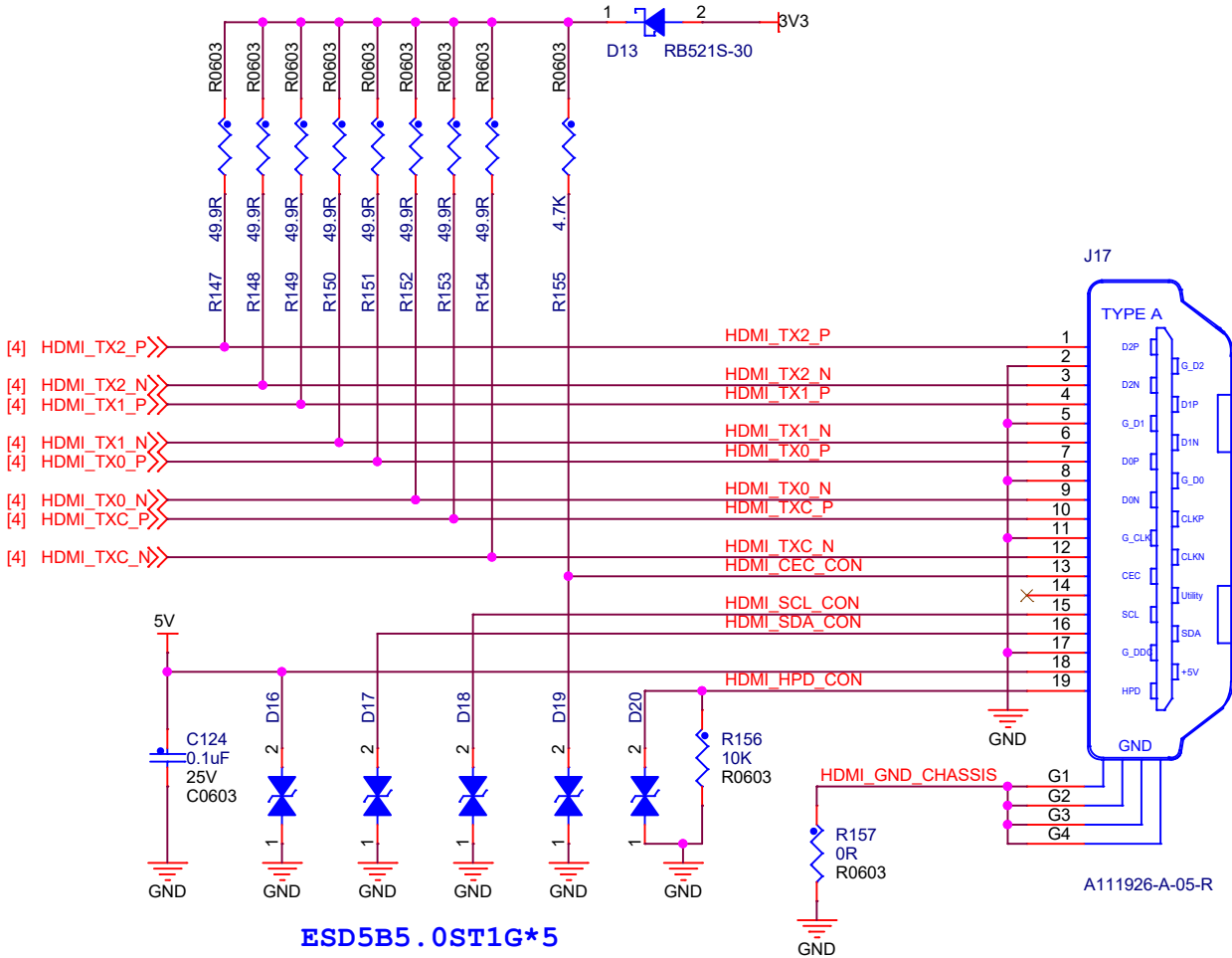
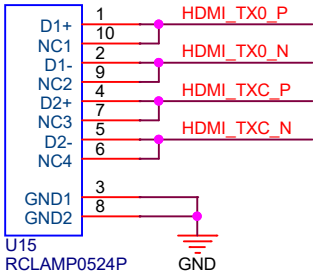
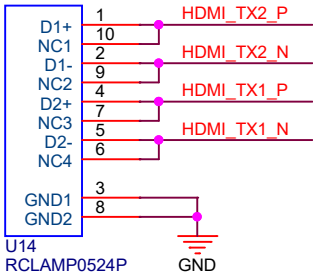
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野火_ZYNQ7010底板_原理图

Size A4	Document Number LCD/RTC/JTAG	Rev V1.1
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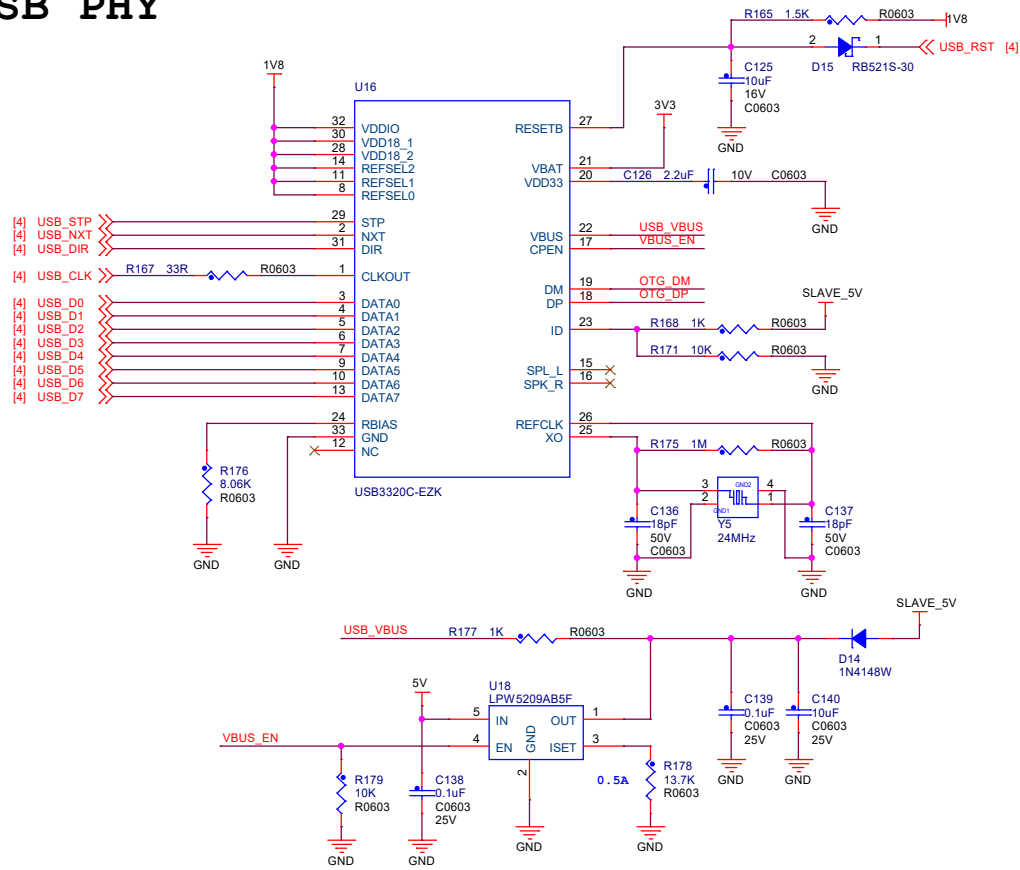
HDMI连接器

Type A型
I2C地址(7bit): 0x50

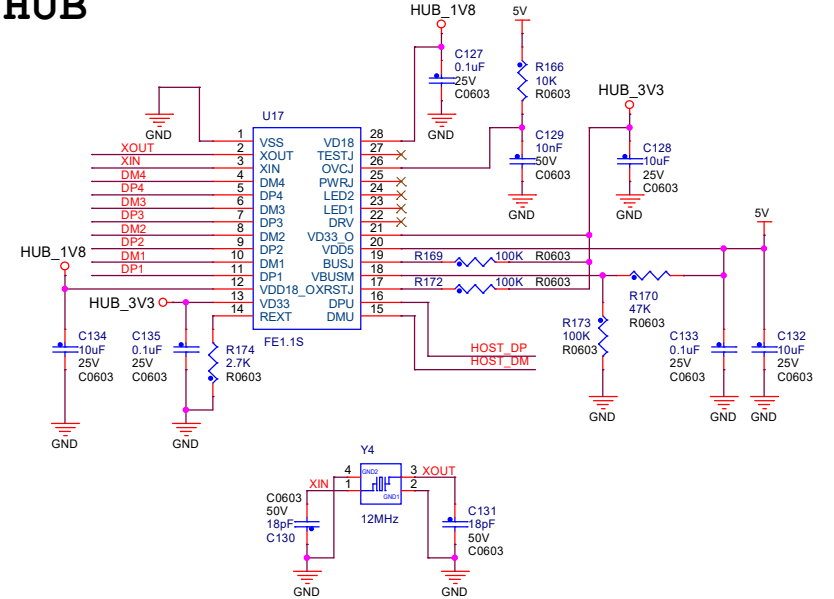


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Title 野火_ZYNQ7010底板_原理图		
Size A4	Document Number HDMI PORT	Rev V1.1
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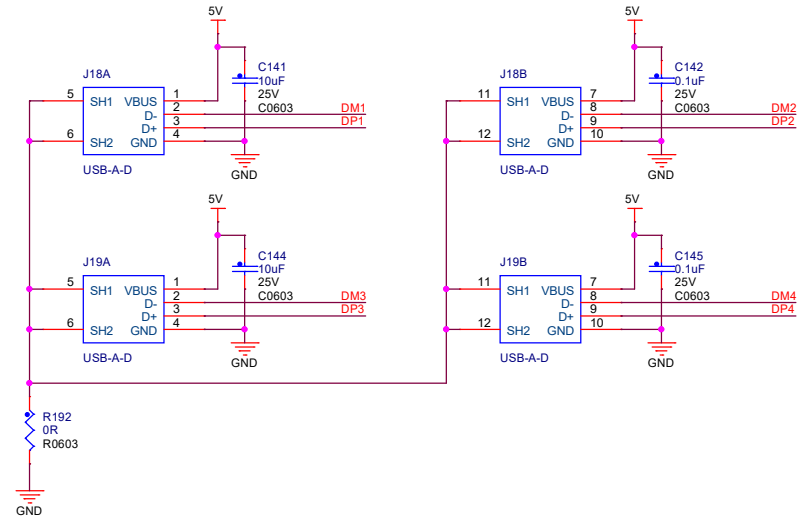
USB PHY



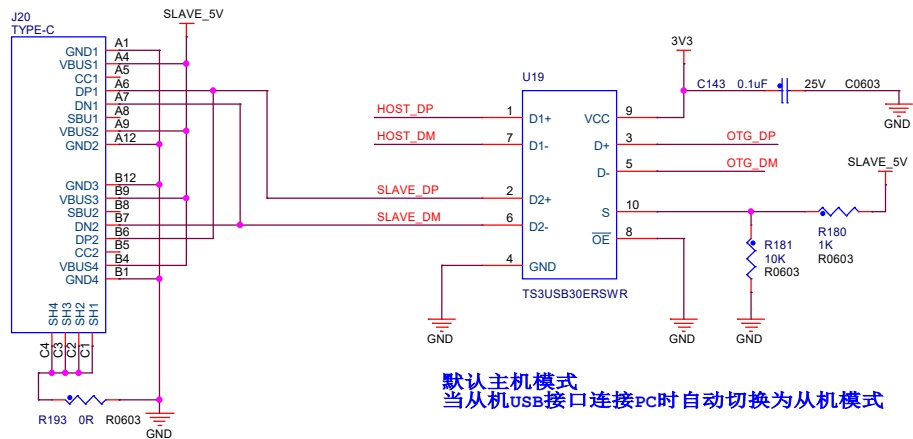
USB HUB



USB HOST



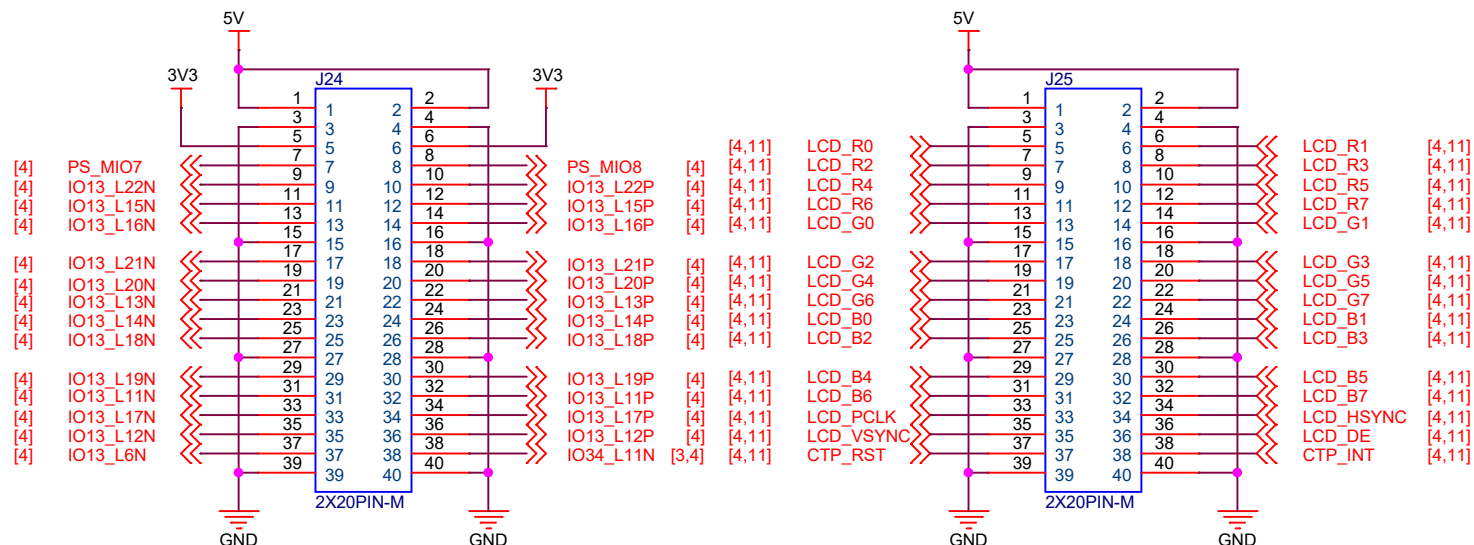
USB SLAVE



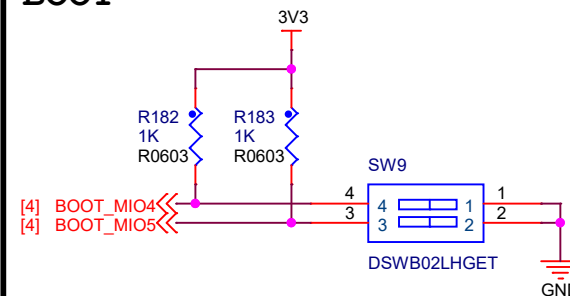
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引出IO口

BANK13 XC7Z020 Only

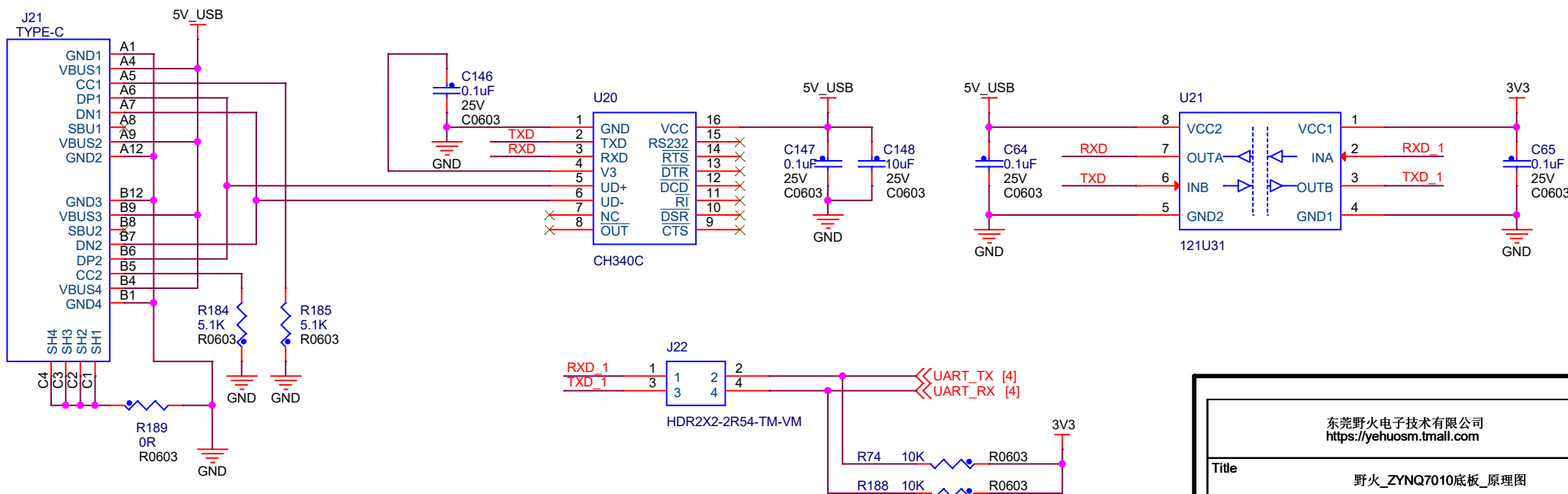


BOOT



BOOT MODE	MIO 4	MIO 5
JTAG	0	0
NAND	1	0
QSPI_FLASH	0	1
SD CARD	1	1

USB转串口

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Title

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Size
A4

Document Number

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