

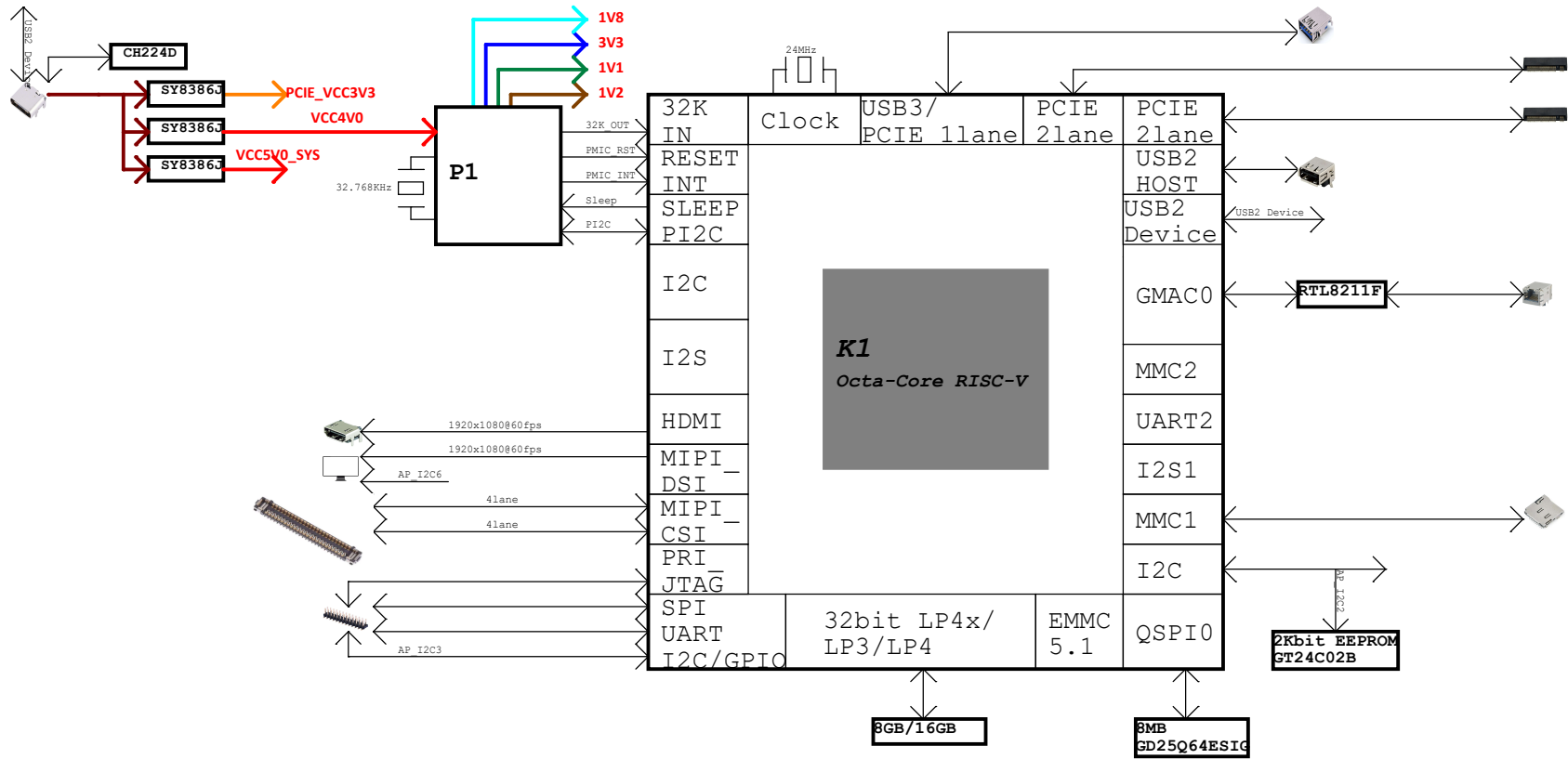
K1_MUSE-Pi Pro_P1_LP4XP200_32X1

Revision	Date	Change Description
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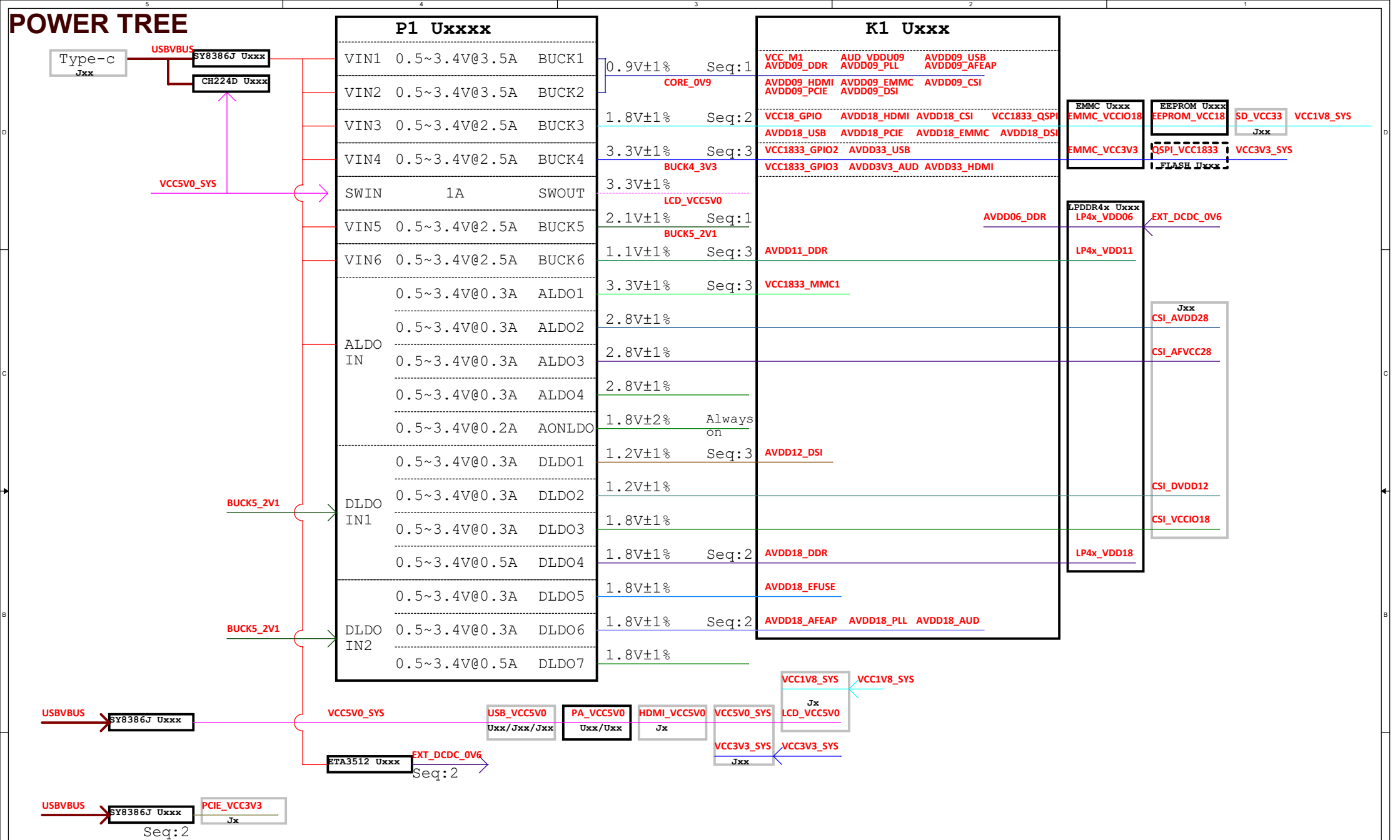
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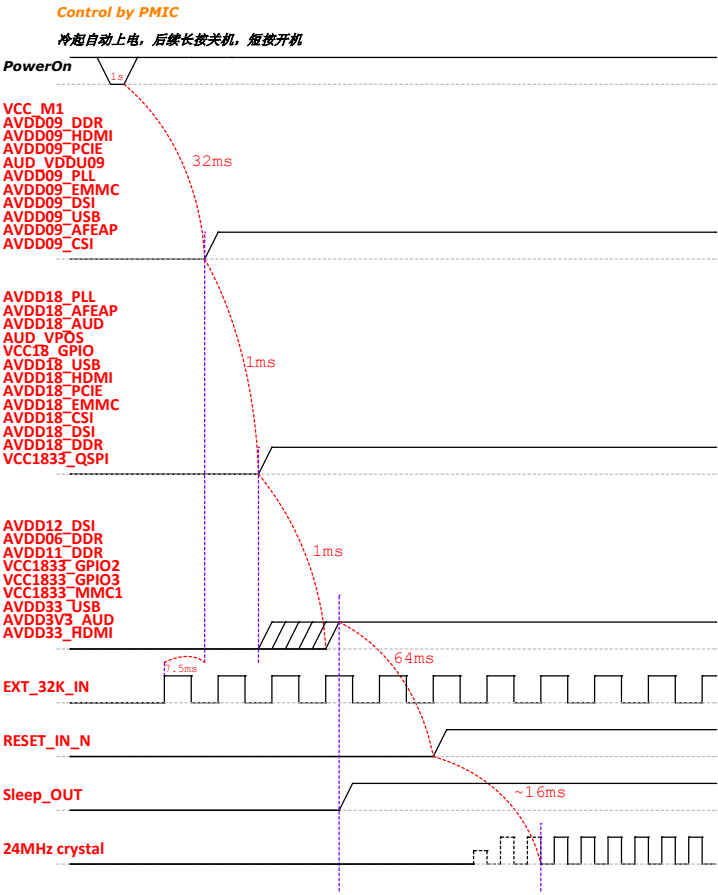
BLOCK



POWER TREE

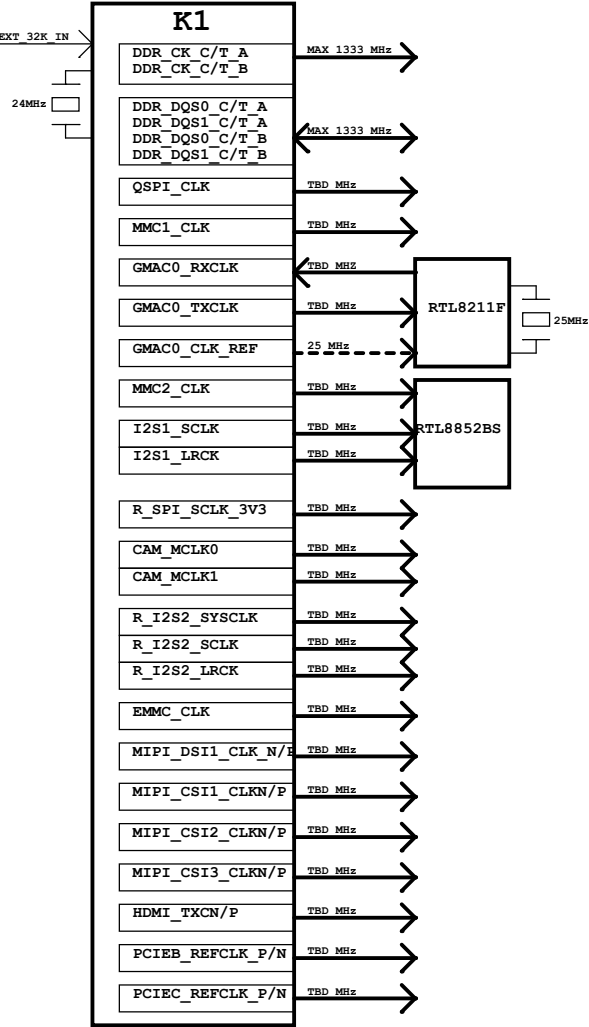


POWER SEQUENCE

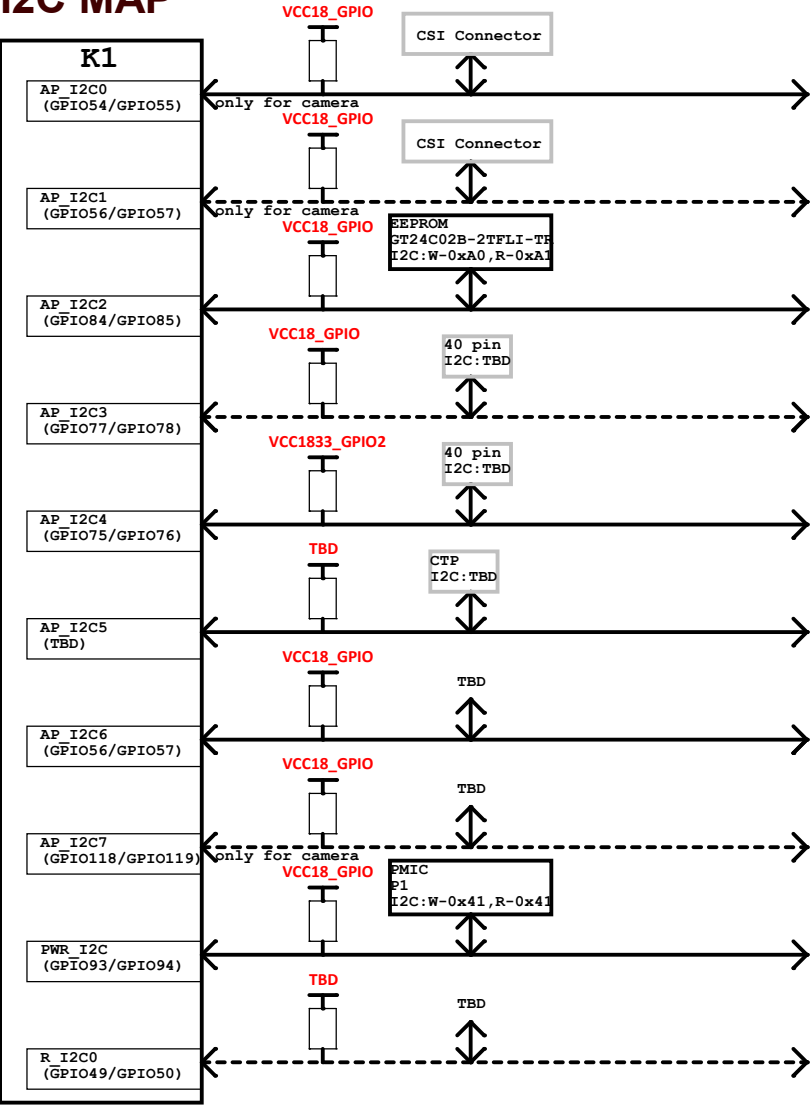


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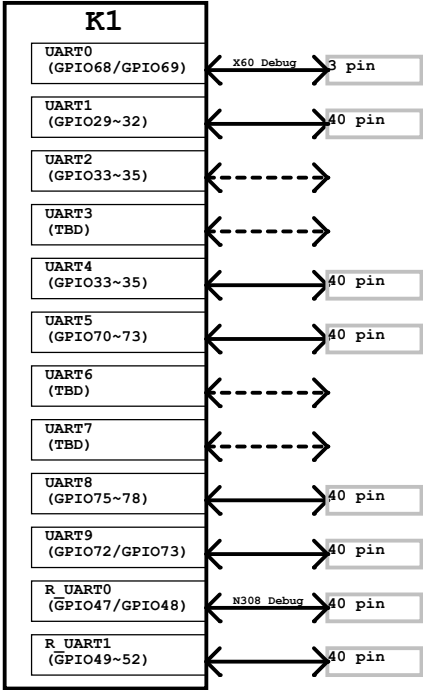
CLOCK MAP



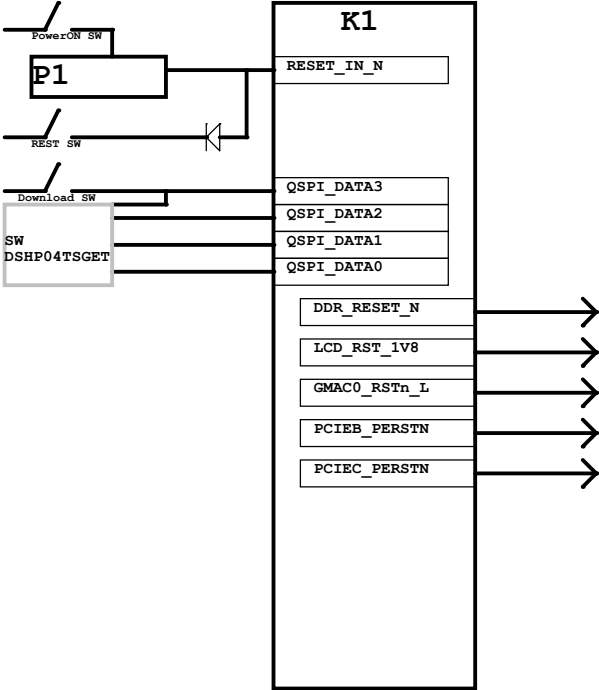
I2C MAP



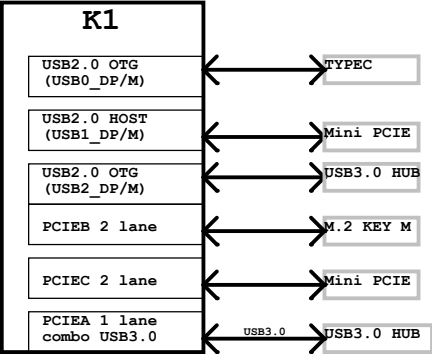
UART MAP



SW&RESET MAP



PCIE/USB MAP



GPIO ASSIGNMENT

PIN	Define	CFG	Function
GPIO0	GMAC0_RXDV	1	Ethernet -GMAC0
GPIO1	GMAC0_RXD0	1	
GPIO2	GMAC0_RXD1	1	
GPIO3	GMAC0_RXCLK	1	
GPIO4	GMAC0_RXD2	1	
GPIO5	GMAC0_RXD3	1	
GPIO6	GMAC0_TXD0	1	
GPIO7	GMAC0_TXD1	1	
GPIO8	GMAC0_TXCLK	1	
GPIO9	GMAC0_TXD2	1	
GPIO10	GMAC0_TXD3	1	
GPIO11	GMAC0_TXEN	1	
GPIO12	GMAC0_MDC	1	
GPIO13	GMAC0_MDIO	1	
GPIO14	GMAC0_INT_N	1	WIFI/BT
GPIO15	MMC2_DATA3	1	
GPIO16	MMC2_DATA2	1	
GPIO17	MMC2_DATA1	1	
GPIO18	MMC2_DATA0	1	
GPIO19	MMC2_CMD	1	
GPIO20	MMC2_CLK	1	
GPIO21	UART2_TXD	1	
GPIO22	UART2_RXD	1	
GPIO23	UART2_CTS_N	1	
GPIO24	UART2_RTS_N	1	
GPIO25	I2S1_SCLK	1	
GPIO26	I2S1_LRCK	1	
GPIO27	I2S1_TXD	1	NA
GPIO28	I2S1_RXD	1	
GPIO29		0	
GPIO30		0	
GPIO31		0	
GPIO32		0	
GPIO33	GPIO33	0	
GPIO34	GPIO34	0	
GPIO35	GPIO35	0	
GPIO36	PCIEC_WAKEN	4	
GPIO37	GPIO37	0	
GPIO38	AP_I2C3_SCL	2	40 pin
GPIO39	AP_I2C3_SDA	2	
GPIO40	AP_I2C4_SCL	0	
GPIO41	AP_I2C4_SDA	0	
GPIO42		0	NA
GPIO43		0	
GPIO44		4	
GPIO45	GMAC0_CLK_REF	1	GMAC0
GPIO46	GPIO46	0	40 pin

PIN	Define	CFG	Function
GPIO110	GMAC0_RSTn_L	0	GMAC0
GPIO115	CSI_PWREN	0	CAMERA
GPIO116	WL_DIS_N	0	WIFI
GPIO117	PCIEC_CLKREQN	4	PCIEC
GPIO118	AP_I2C6_SCL	3	LCD
GPIO119	AP_I2C6_SDA	3	
GPIO120	I2S0_OUT	2	AUDIO
GPIO121	I2S0_IN	0	
GPIO122	I2S0_SYSCLK	0	USB3HUB
GPIO123	HUB_RST	0	
GPIO124		0	NA
GPIO125		0	
GPIO126	CODEC_IRQ	0	AUDIO
GPIO127	HUB_PWREN	0	USB3HUB

PIN	Define	CFG	Function
GPIO53	CAM_MCLK0	1	CAMERA0
GPIO54	CAM_I2C0_SCL	1	
GPIO55	CAM_I2C0_SDA	1	
GPIO56	CAM_I2C1_SCL	1	CAMERA1
GPIO57	CAM_I2C1_SDA	1	
GPIO58	CAM_MCLK1	1	
GPIO111	I2S0_SCLK	1	AUDIO
GPIO112	I2S0_LRCK	1	
GPIO113	CAMERA0_PDN	1	CAMERA0
GPIO114	CAMERA1_PDN	1	CAMERA1
GPIO63	BT_RESETN	0	WIFI/BT
GPIO64	AP_WAKE_BT	1	
GPIO65	BT_WAKE_AP	0	
GPIO66	WL_WAKE_AP	0	
GPIO67	WL_REG_ON	0	
GPIO68	UART0_TXD	2	
GPIO69	UART0_RXD	2	X60 Debug

PIN	Define	CFG	Function
GPIO59	PCIEB_PERSTN	4	PCIEB
GPIO60	PCIEB_WAKEN	4	
GPIO61	PCIEB_CLKREQN	4	
GPIO62	PCIEC_PERSTN	4	PCIEC
GPIO70	GPIO70	1	40 pin
GPIO71	GPIO71	1	
GPIO72	GPIO72	1	
GPIO73	GPIO73	1	
GPIO74	GPIO74	0	

红色字体GPIO表示默认、持续上拉，等效上拉电阻约60K。需要软件修改才能解除默认上拉状态

PIN	Define	CFG	Function
GPIO93	PI2C_SCL	0	PMIC
GPIO94	PI2C_SDA	0	
GPIO95	SLEEP_OUT	0	
GPIO96	GPIO96	1	LED
GPIO97	GPIO97	0	DCDC
GPIO81	AP_I2C5_SCL	5	LCD/CTP
GPIO82	AP_I2C5_SDA	5	
GPIO83	LCD_PWR_EN_1V8	0	
GPIO84	AP_I2C2_SCL	4	EEPROM Audio
GPIO85	AP_I2C2_SDA	4	
GPIO86	HDMI_SCL	1	HDMI_OUT
GPIO87	HDMI_SDA	1	
GPIO88	HDMI_CEC	1	
GPIO89	HDMI_HPD	1	40 pin
GPIO90	GPIO90	0	
GPIO91	GPIO91	0	
GPIO92	GPIO92	0	

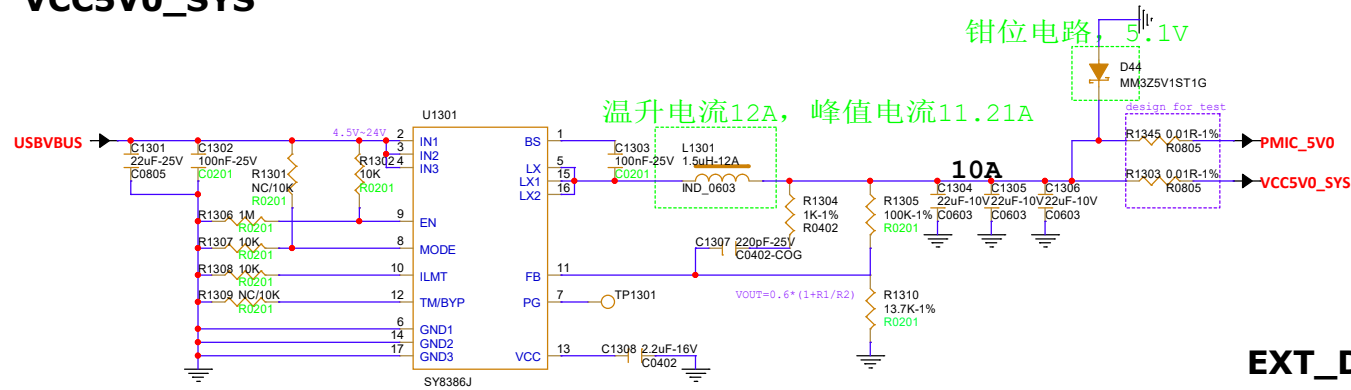
PIN	Define	CFG	Function
GPIO98	QSPI_DATA3	0	SPI FLASH
GPIO99	QSPI_DATA2	0	
GPIO100	QSPI_DATA1	0	
GPIO101	QSPI_DATA0	0	
GPIO102	QSPI_CLK	0	
GPIO103	QSPI_CS1	0	

PIN	Define	CFG	Function
GPIO104	MMC1_DATA3	0	TF CARD
GPIO105	MMC1_DATA2	0	
GPIO106	MMC1_DATA1	0	
GPIO107	MMC1_DATA0	0	
GPIO108	MMC1_CMD	0	
GPIO109	MMC1_CLK	0	

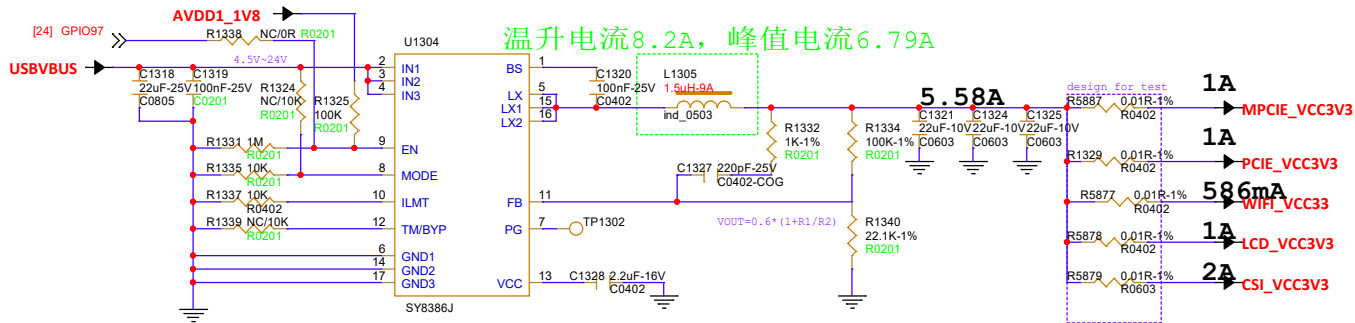
PIN	Define	CFG	Function
GPIO75	SPI3_SCLK_3V3	2	40 pin
GPIO76	SPI3_CS_3V3	2	
GPIO77	SPI3_MOSI_3V3	2	
GPIO78	SPI3_MISO_3V3	2	
GPIO79	USB3_PWREN	0	USB3
GPIO80	SD_CD_3V3	1	TF CARD

PIN	Define	CFG	Function
GPIO47	GPIO_47_3V3	1	40 pin
GPIO48	GPIO_48_3V3	1	
GPIO49	GPIO_49_3V3	0	
GPIO50	GPIO_50_3V3	0	
GPIO51	GPIO_51_3V3	4	
GPIO52	GPIO_52_3V3	4	

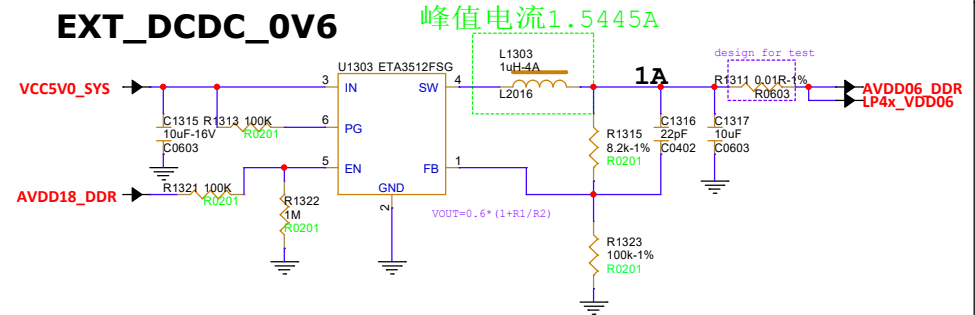
VCC5V0_SYS



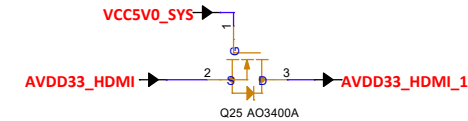
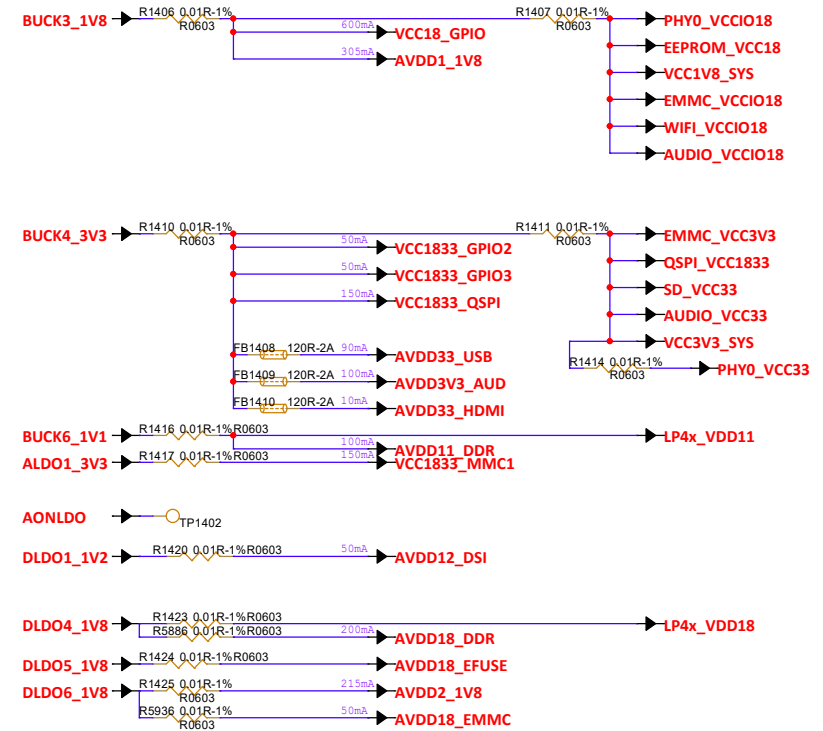
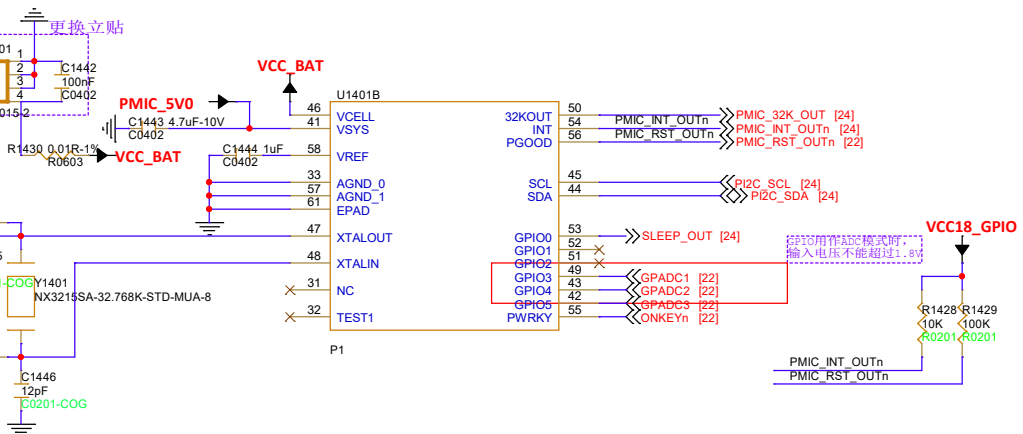
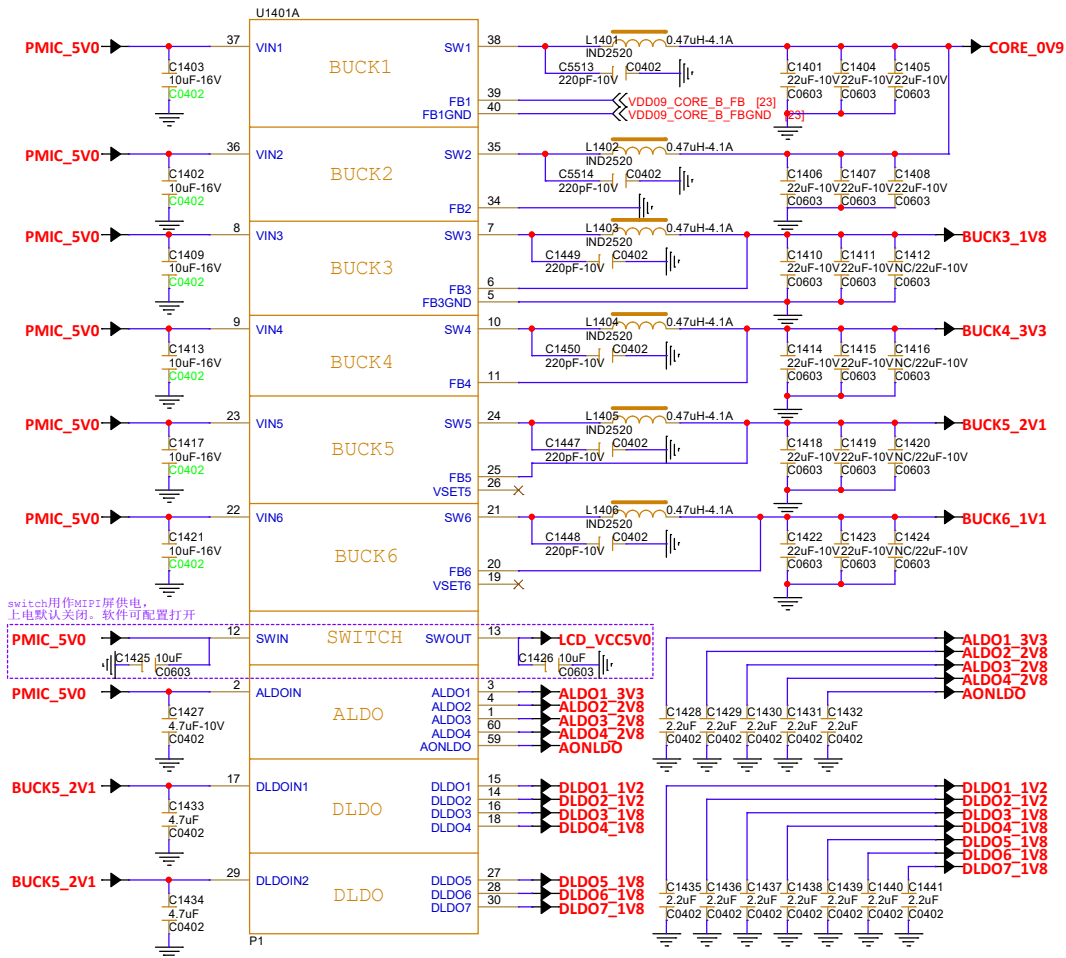
PCIE_WIFI_VCC3V3



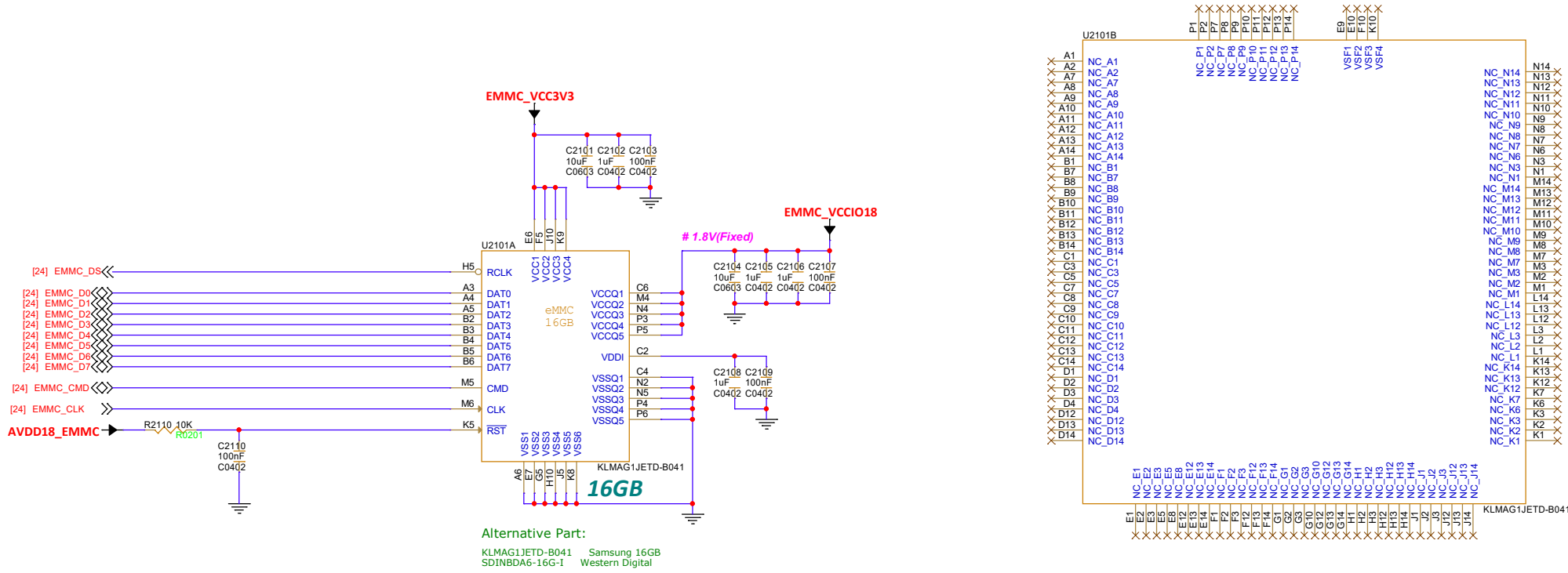
EXT_DCDC_0V6



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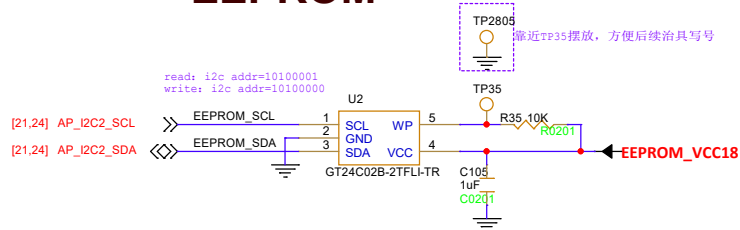


EMMC

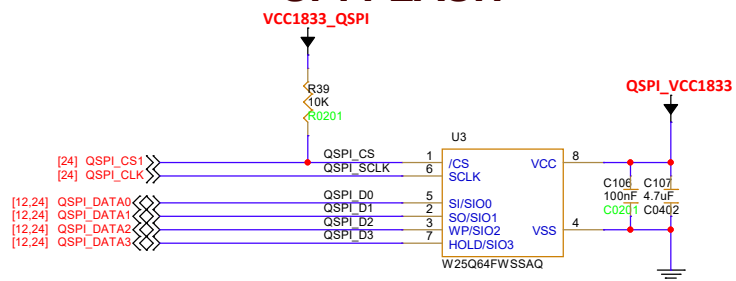


Alternative Part:
KLMAG1JETD-B041 Samsung 16GB
SDINBDA6-16G-1 Western Digital

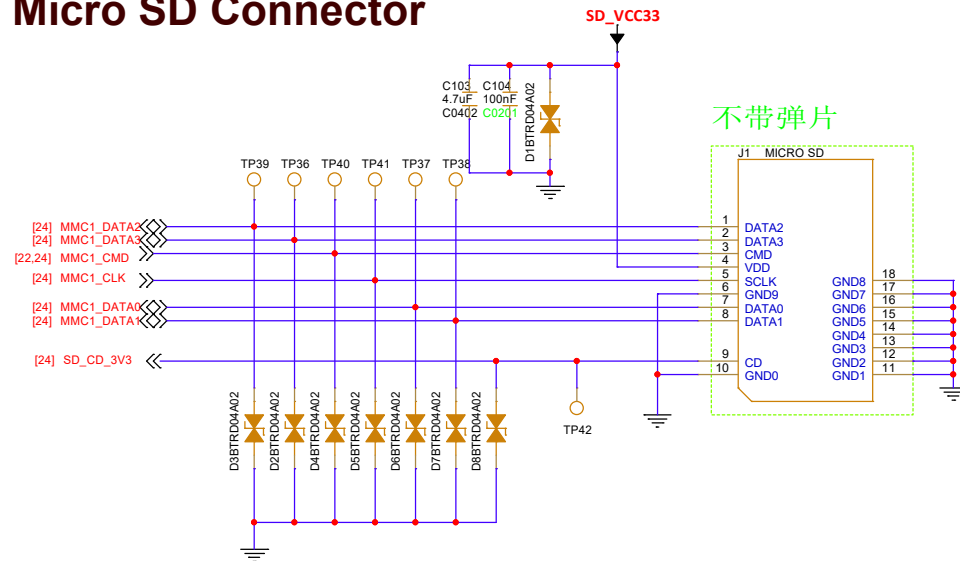
EEPROM



SPI FLASH

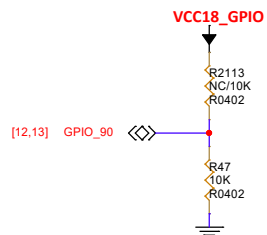


Micro SD Connector



不帶彈片

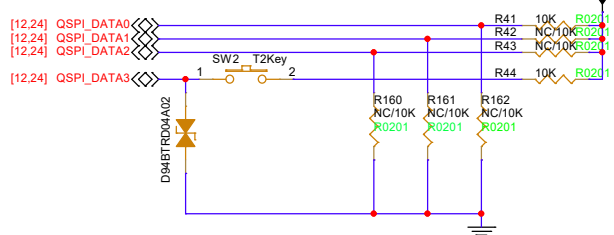
VCC18_GPIO



GPIO90	Function
0	1V8
1	3V3

SPI Flash推荐使用1.8V电压

VCC1833_QSPI



boot download sel

QSPI_DATA3	Function
0	启动
1	下载

download sel

QSPI_DATA2	Function
0	USB
1	UART

Boot SEL

QSPI_DATA3	QSPI_DATA2	Function
0	0	TF Card -> EMMC
0	1	TF Card -> SPI NOR
1	0	TF Card -> SPI NAND
1	1	TF Card -> SD

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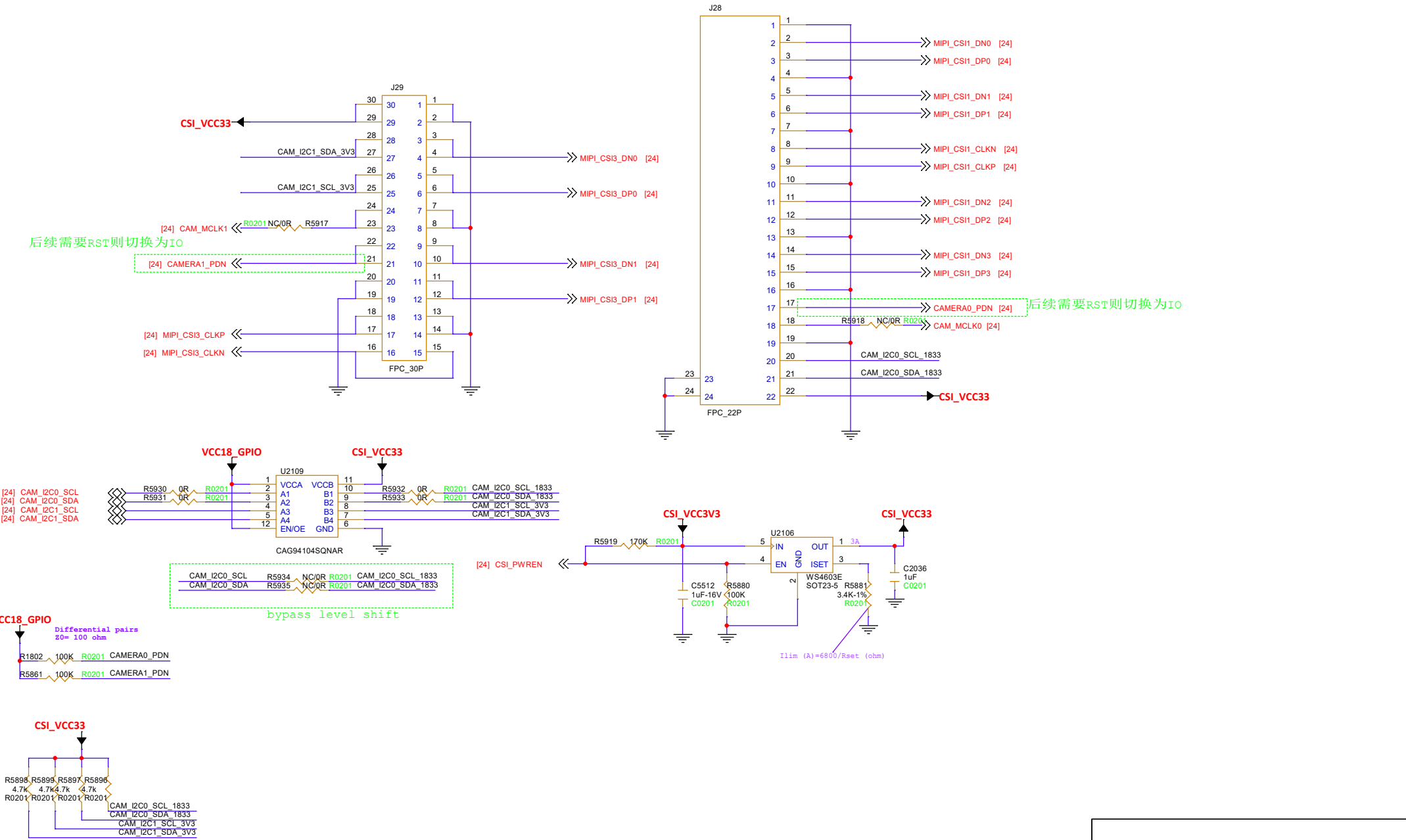
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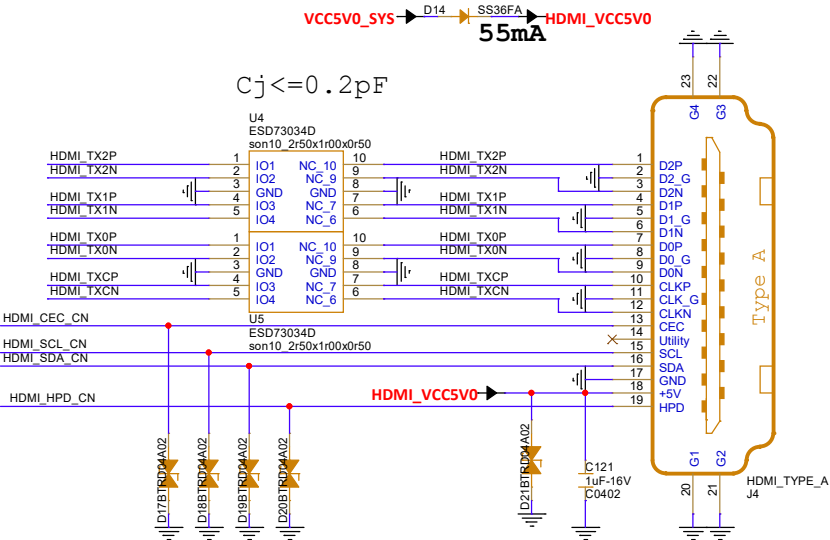
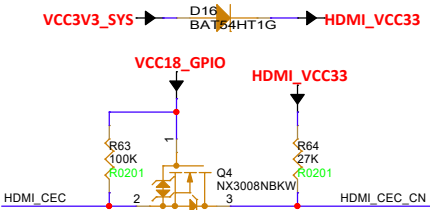
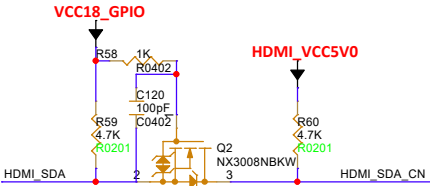
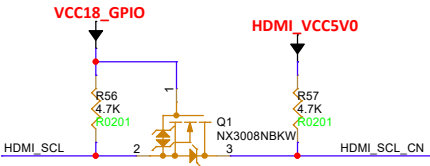
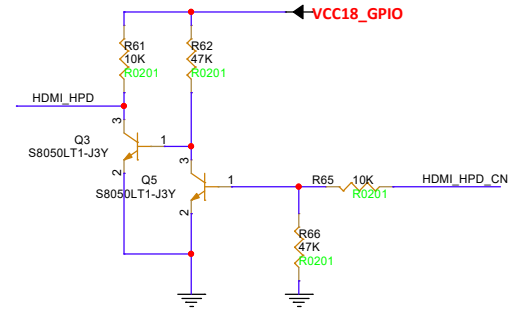
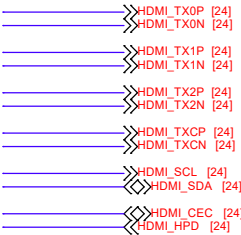
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CAMERA

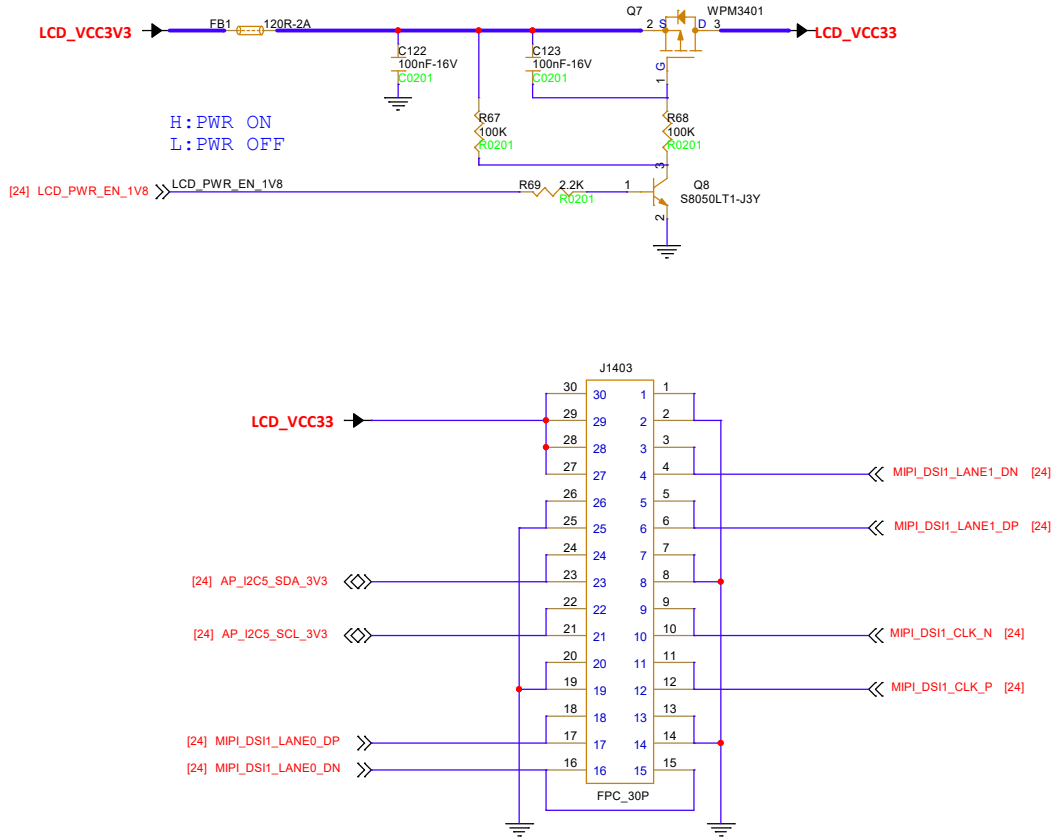
不兼容同时需要PDN与RST的模组



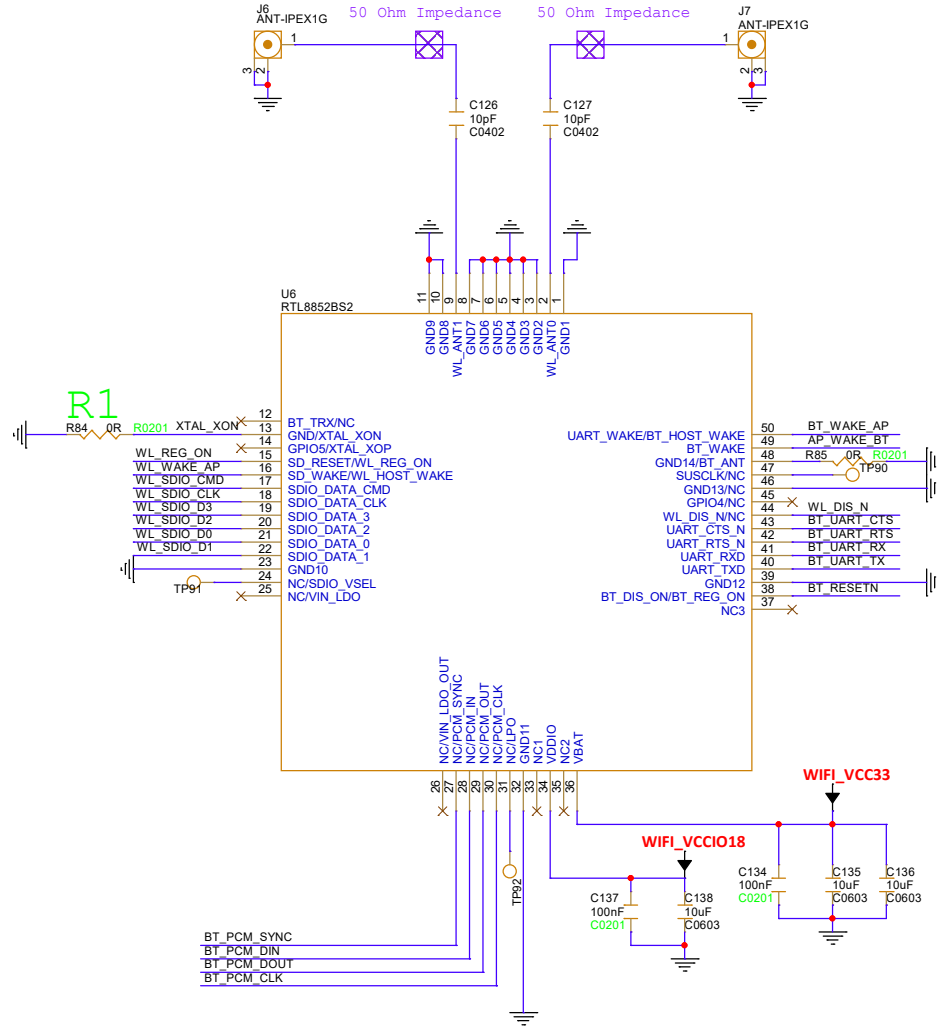
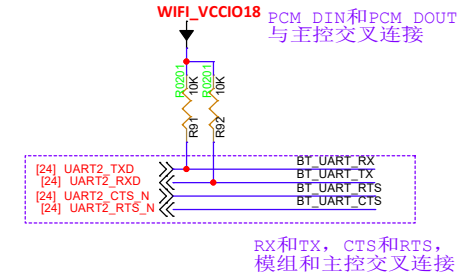
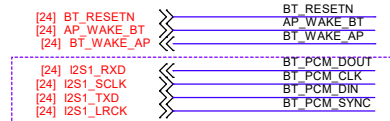
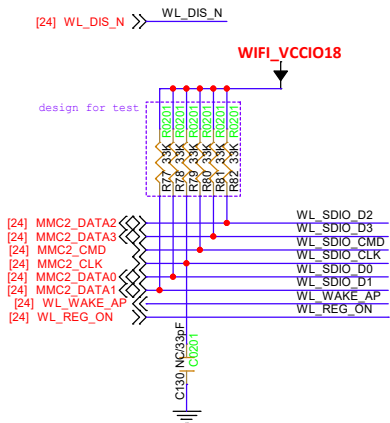
HDMI



MIPI-DSI

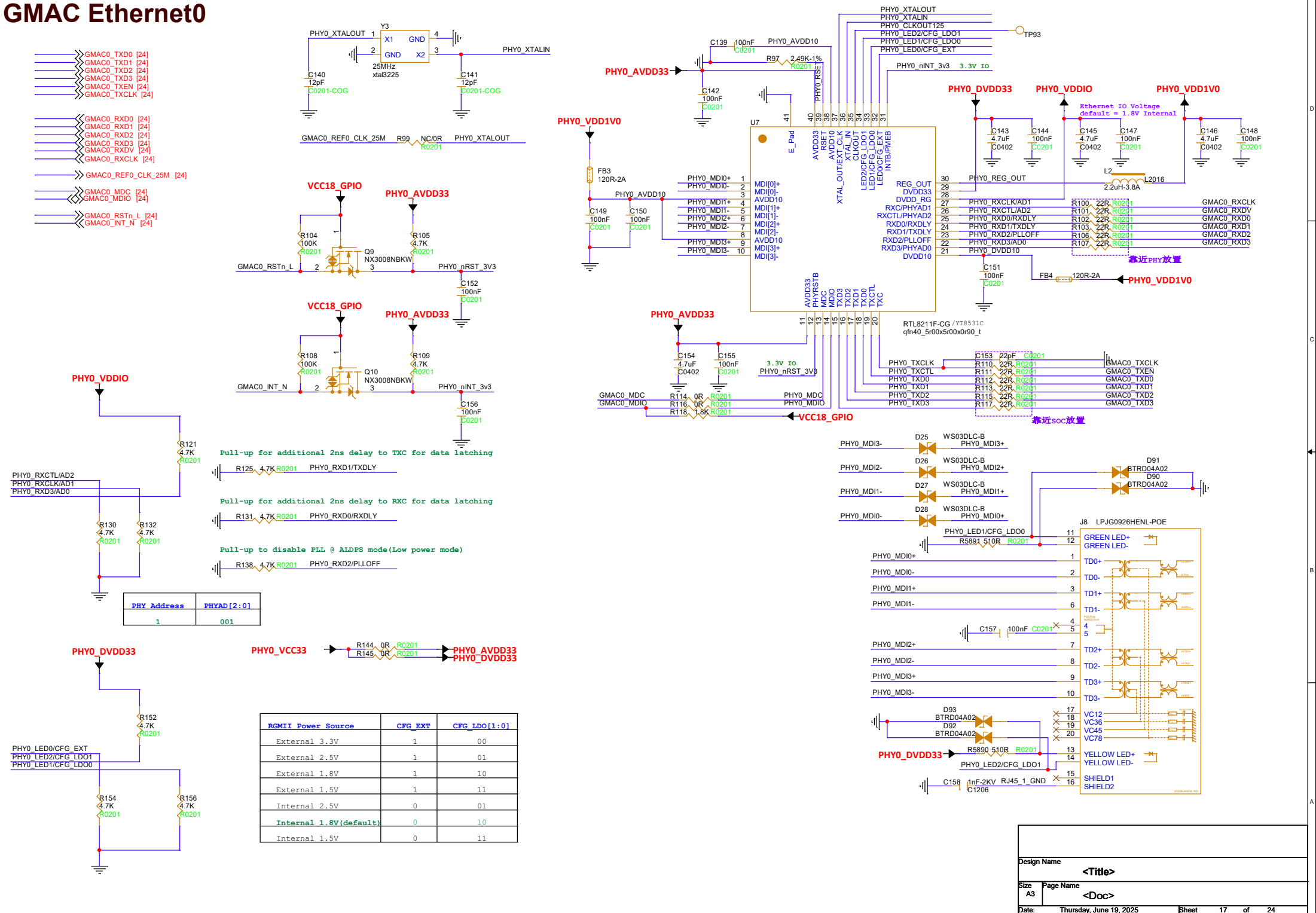


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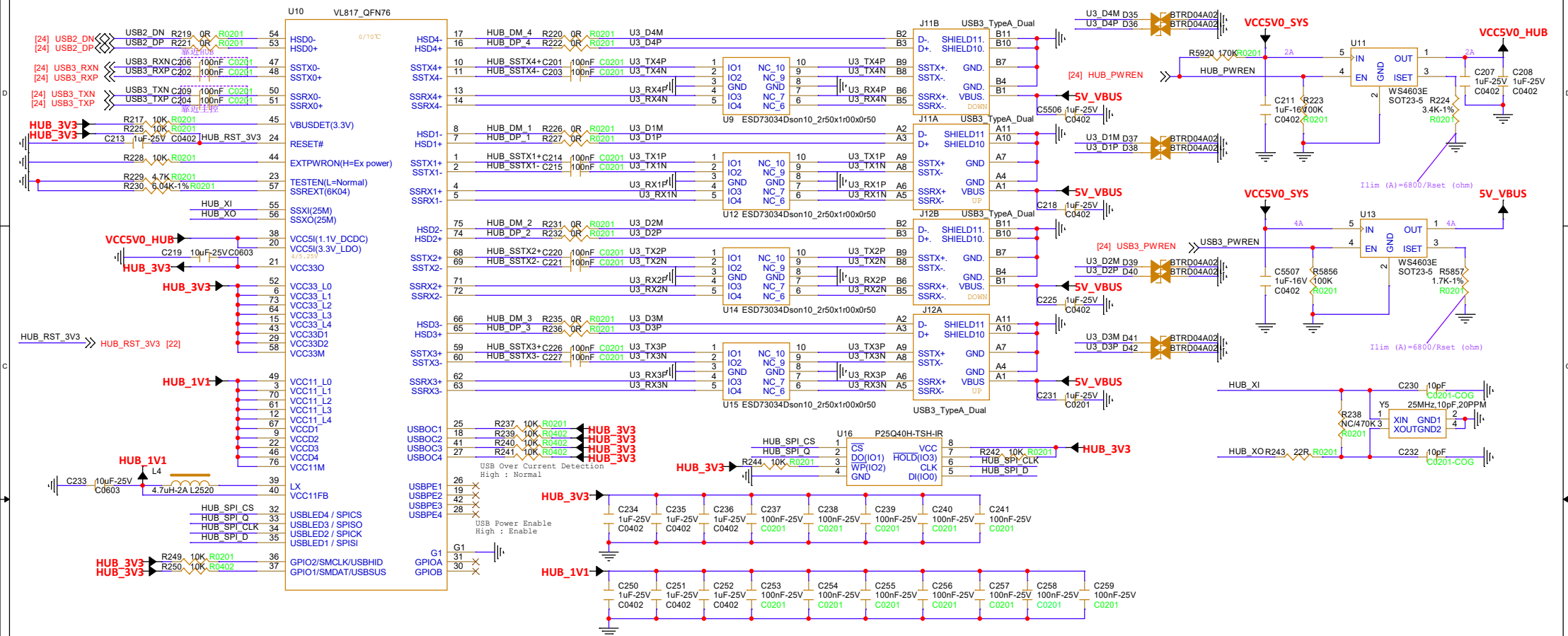
GMAC Ethernet0



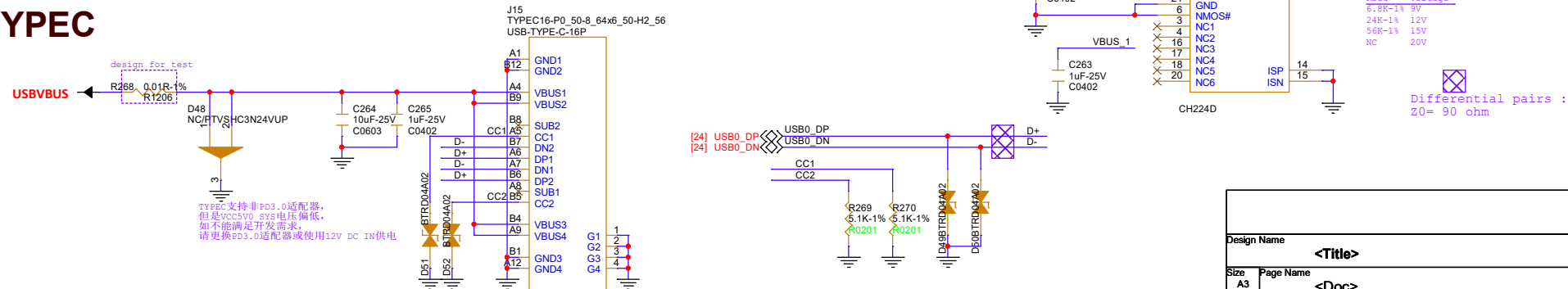
RGMI1 Power Source	CFG EXT	CFG LDO[1:0]
External 3.3V	1	00
External 2.5V	1	01
External 1.8V	1	10
External 1.5V	1	11
Internal 2.5V	0	01
Internal 1.8V(default)	0	10
Internal 1.5V	0	11

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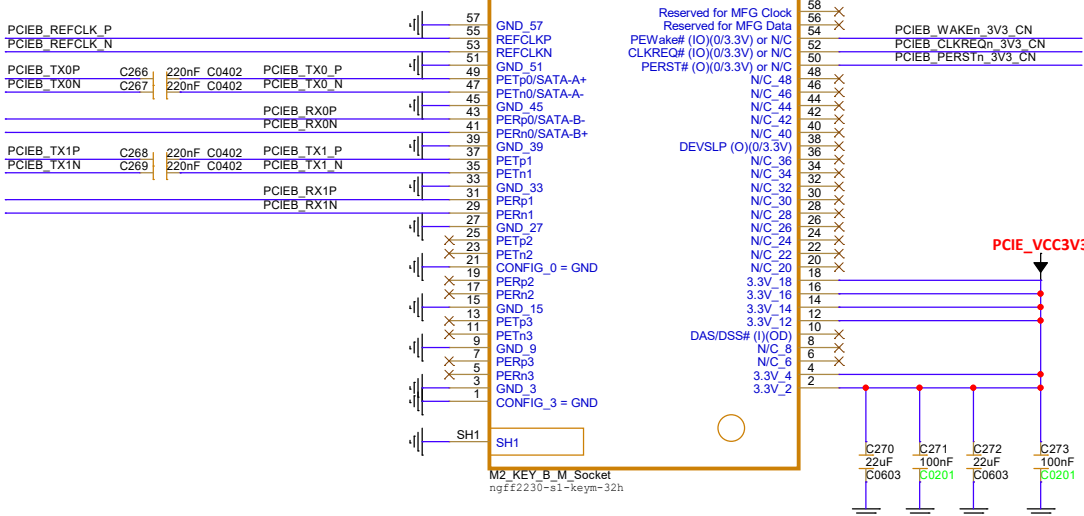
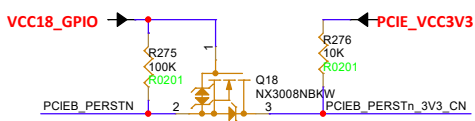
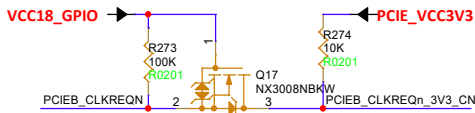
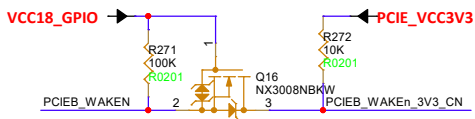
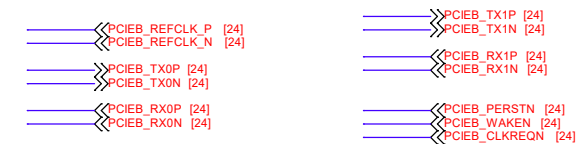
USB3.0 HUB TYPEA



USB2.0 TYPEC



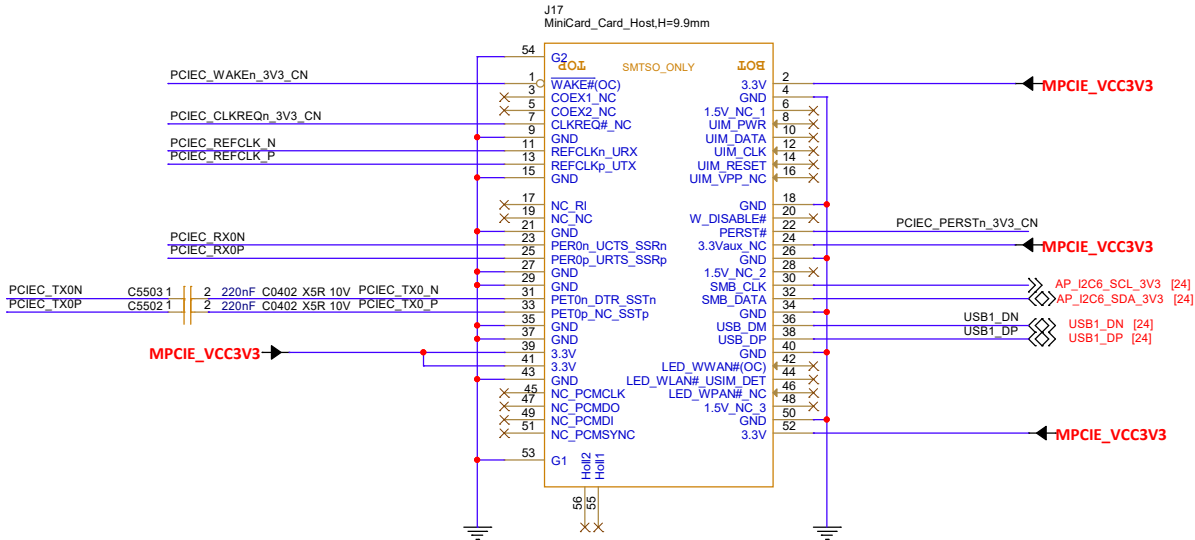
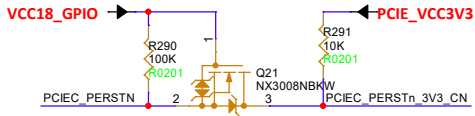
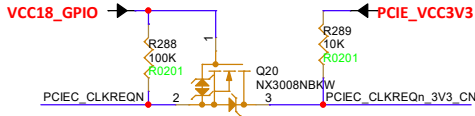
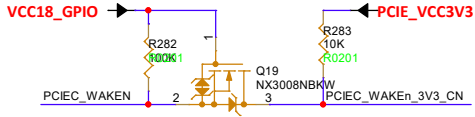
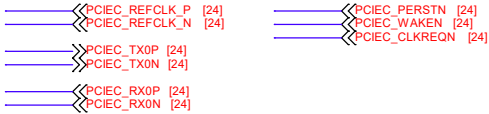
PCIEB



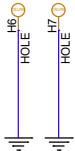
Hole



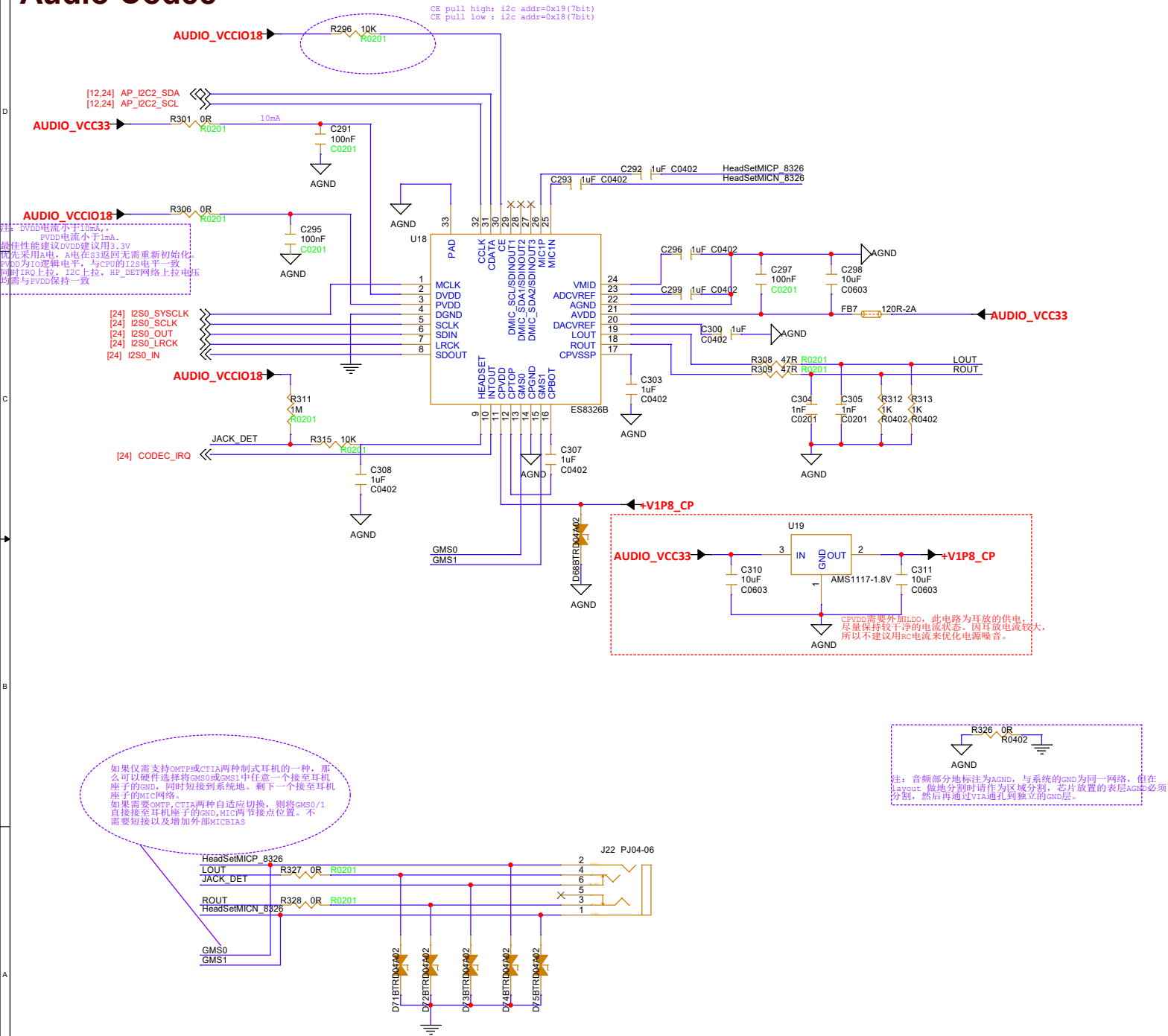
PCIEC



Hole



Audio Codec

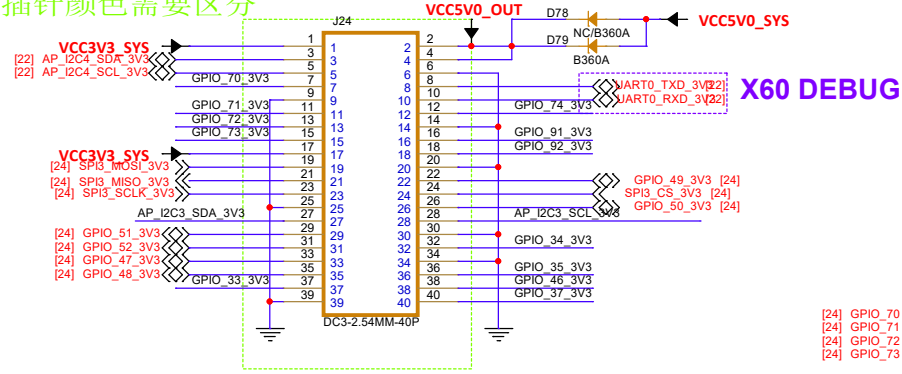


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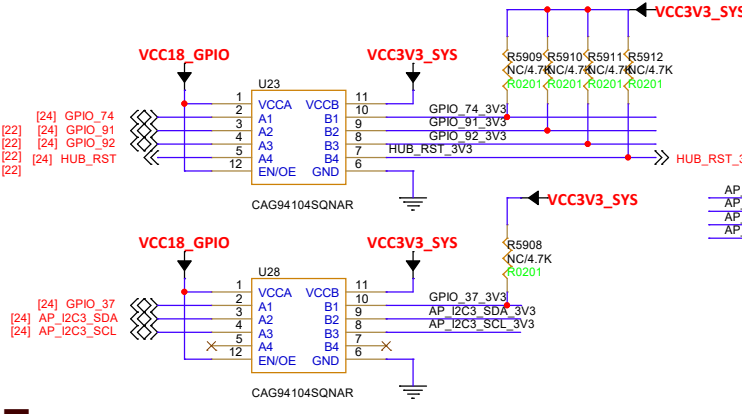
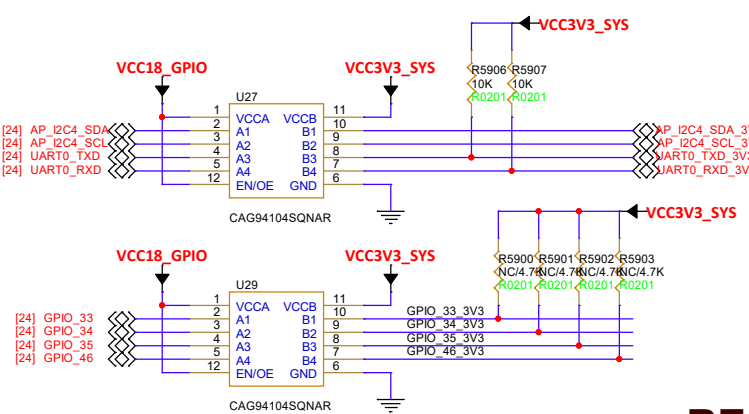
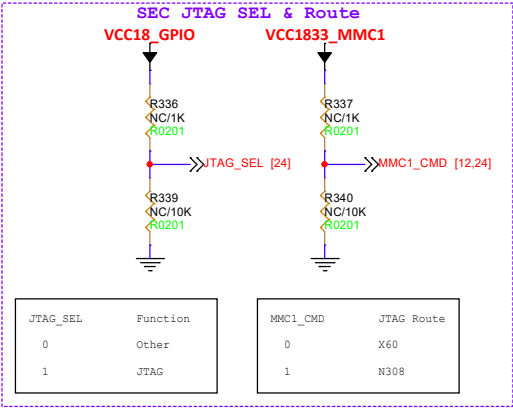
40 pin GPIO

1.SPI LCD:GPIO_70~74+GPIO_91+GPIO_92
2.WK1 JTAG:GPIO_70~73
3.N308 Debug:R_UART0_TXD_3V3/R_UART0_RXD_3V3

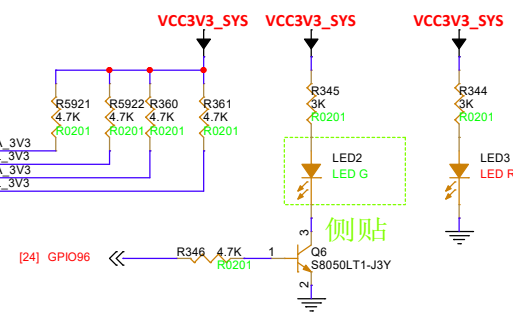
插针颜色需要区分



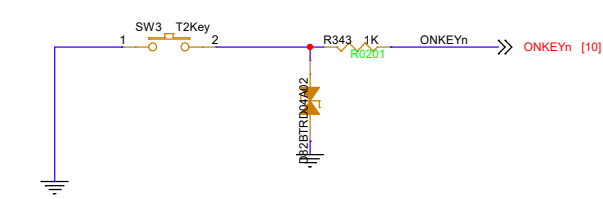
JTAG SEL



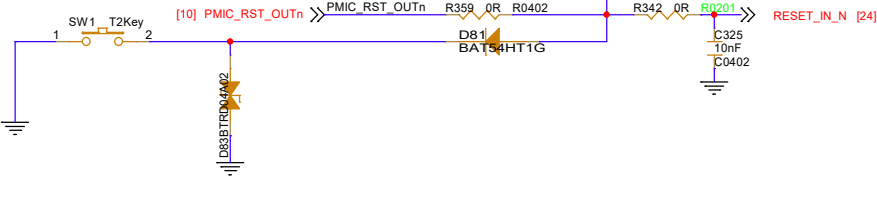
LED



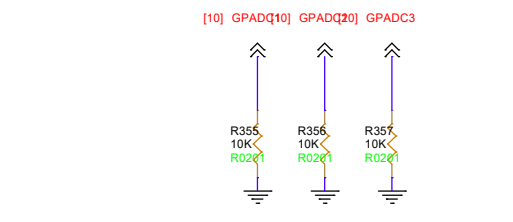
PowerON



REST



ADC



Mark Port

