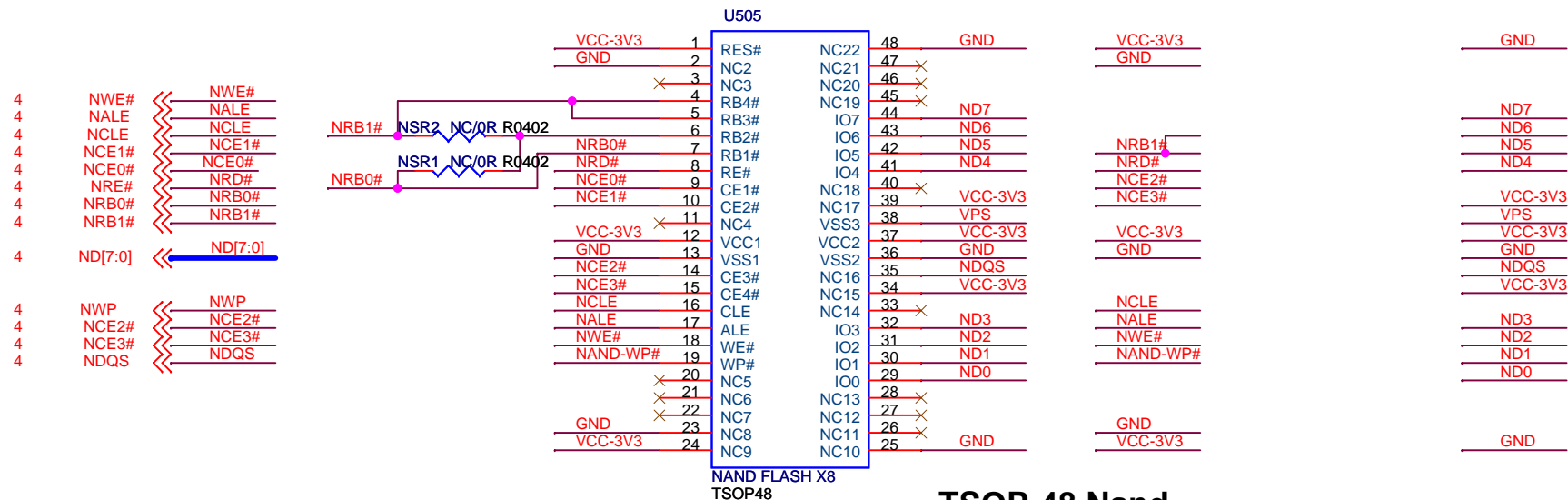
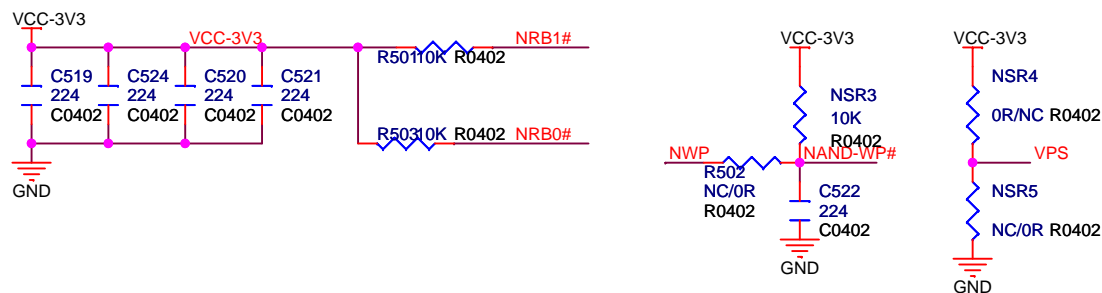


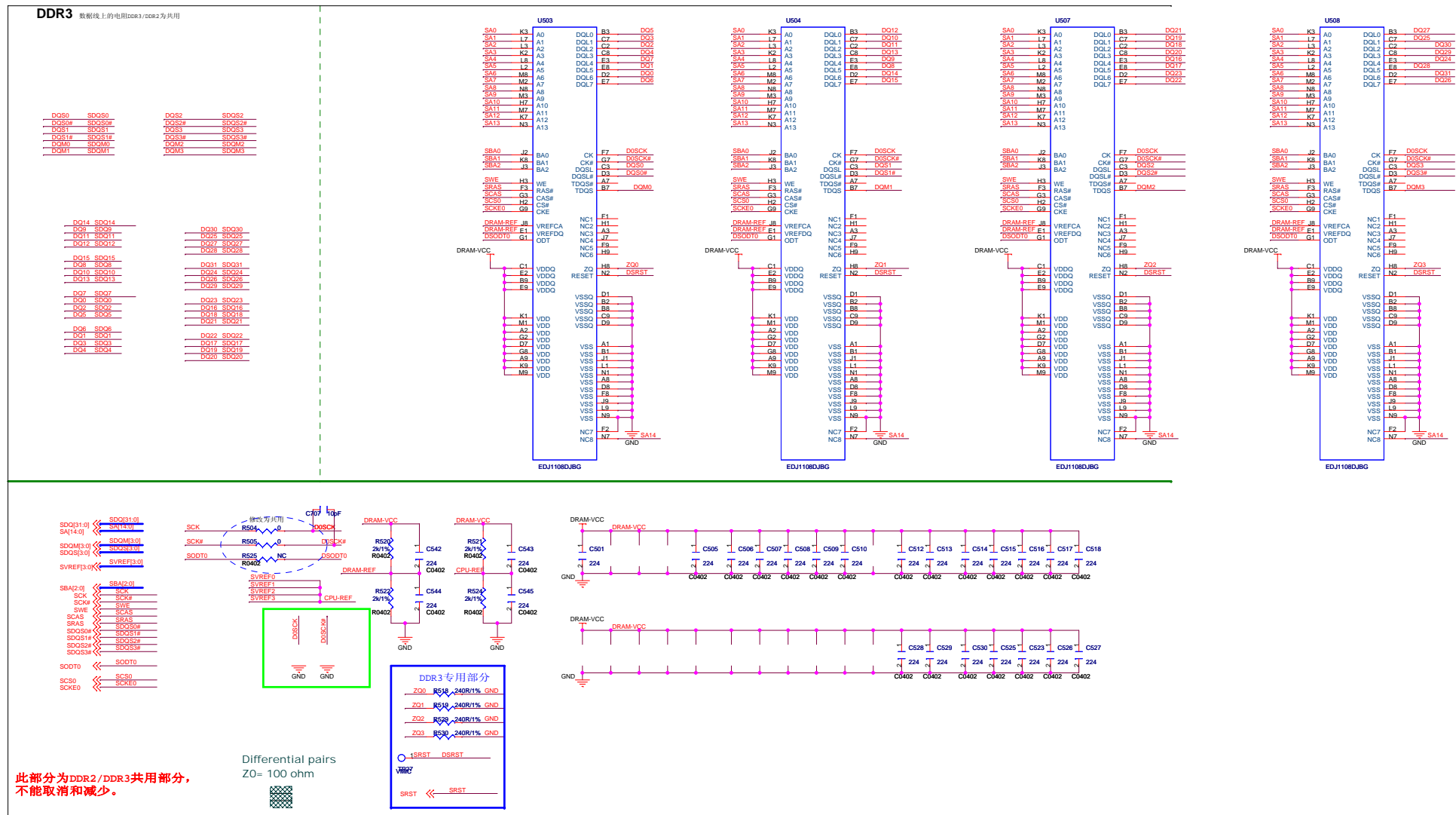
# NAND Flash



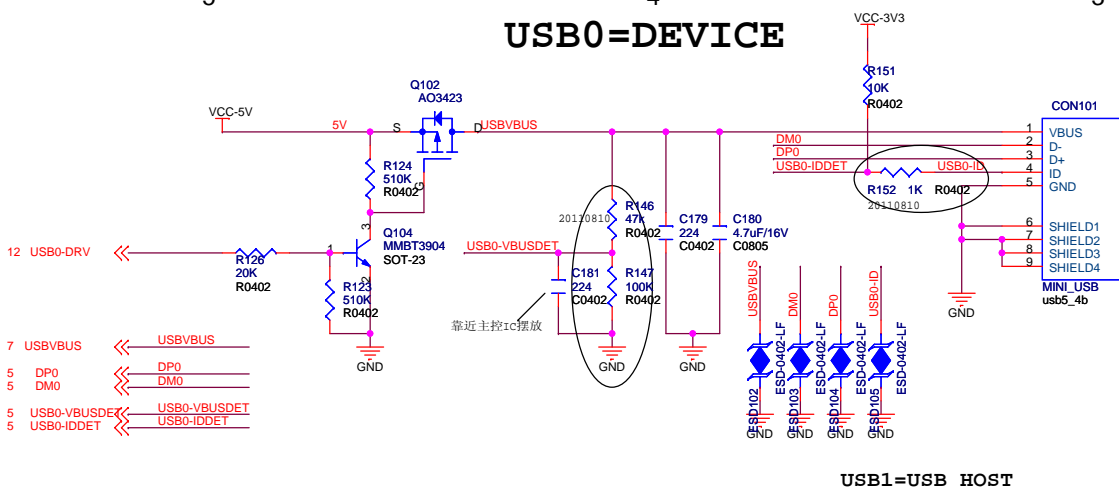
## TSOP-48 Nand

- (1) 接1片单片选Nand 时，NSR2、NSR1断开
- (2) 接1片双片选Nand 时，连接NSR2，断开NSR1
- (3) 接1片四片选Nand 时，连接NSR1，断开NSR2
- (4) 接2片单片选或接2片双片选Nand时，连接NSR1，断开NSR2
- (5) 接Intel、Toshiba、Samsung 2xnm TSOP Nand时， NSR4连接，NSR5断开；其它的NSR4断开，NSR5连接

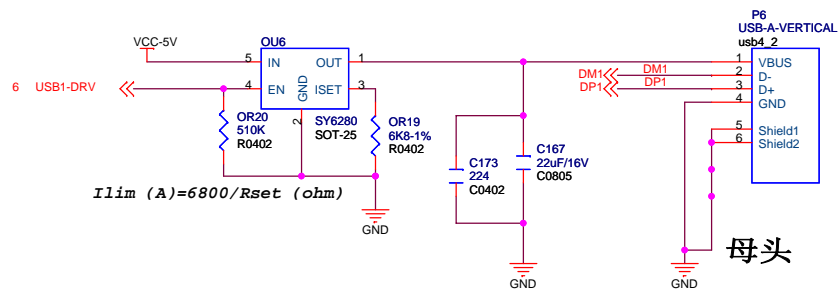




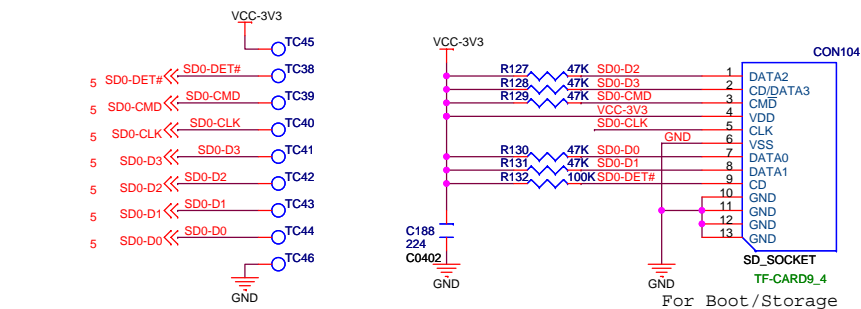
## USB0=DEVICE



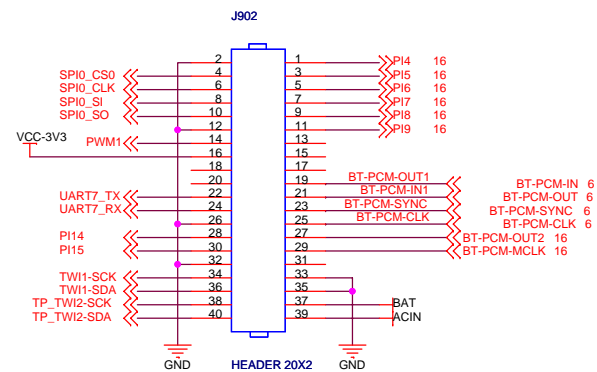
USB1=USB HOST



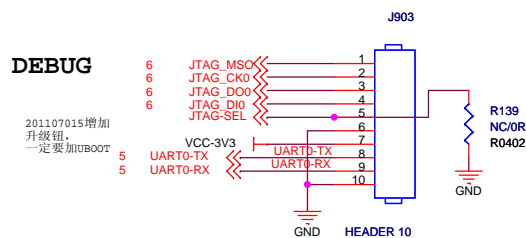
**CARD0**



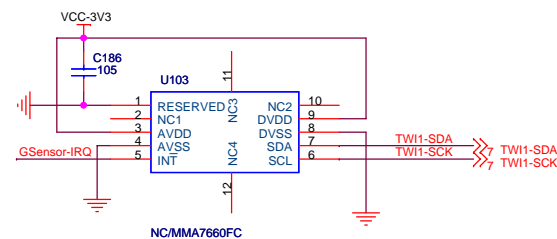
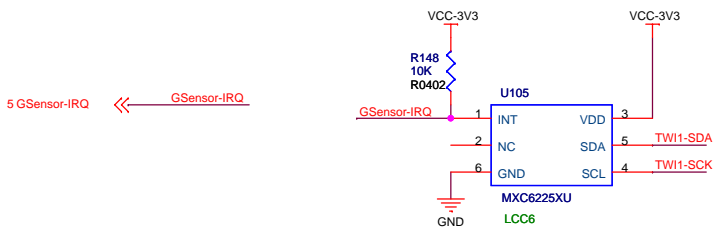
## SPI



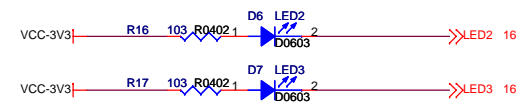
DEBUG



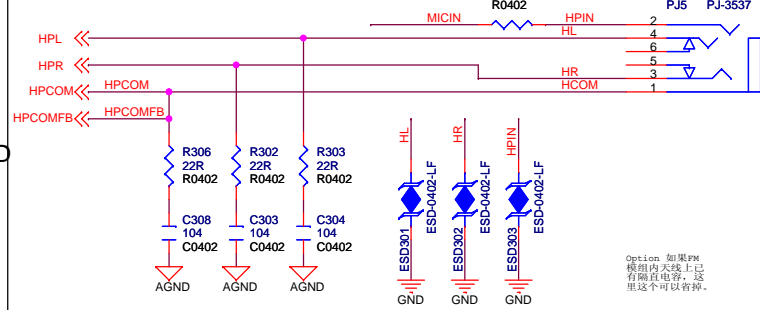
## G-SENSOR



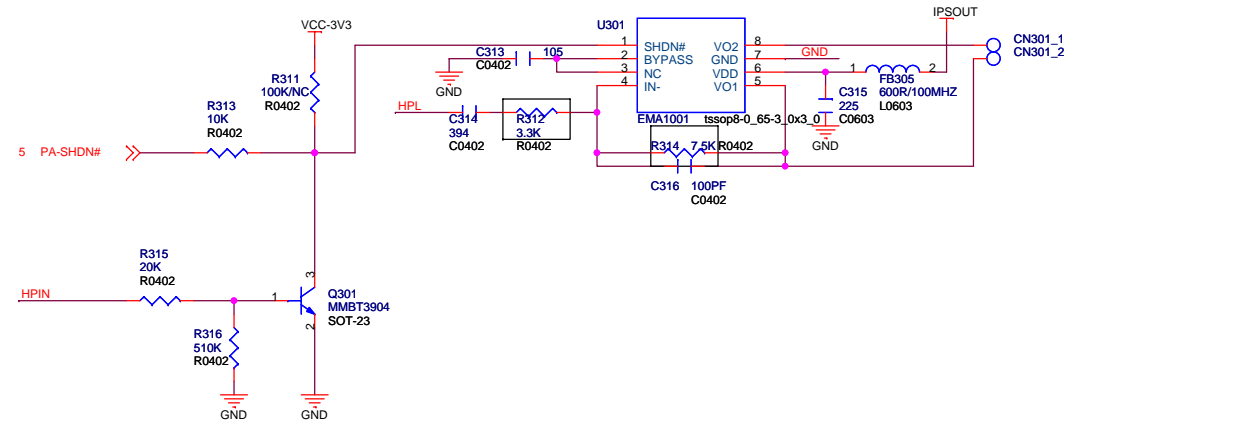
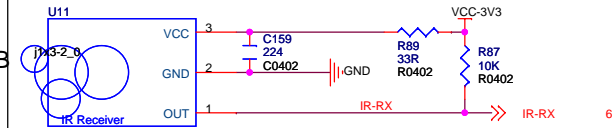
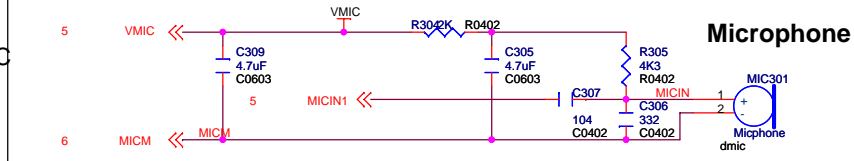
摆放时务必注意G-Sensor在背对屏幕的那面，PIN 1朝屏幕左上角



## Head Phone & TVOUT

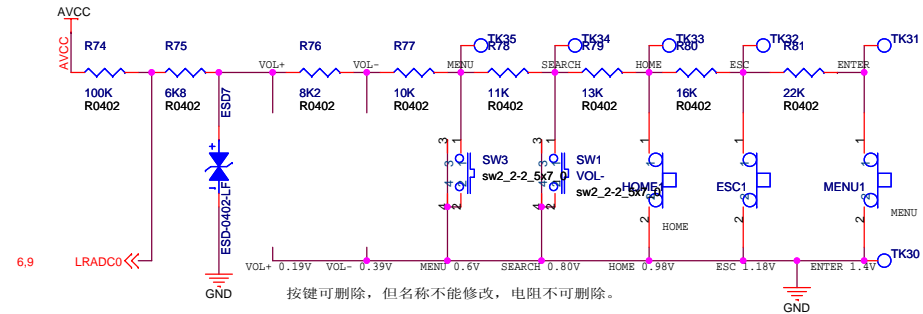


Option 如果FM  
模组内天线上已  
有隔直电容，这  
里这个可以省掉。



此按键对应模具上的隐蔽小孔  
用于固件升级，必须保留。

## KEY



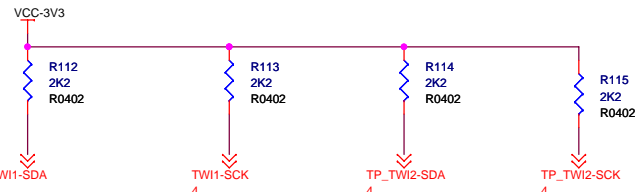
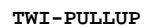
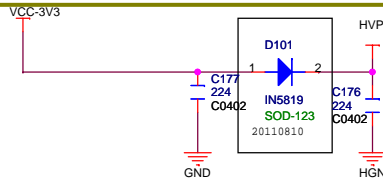
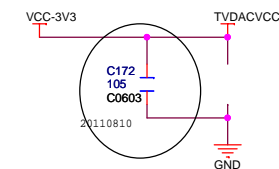
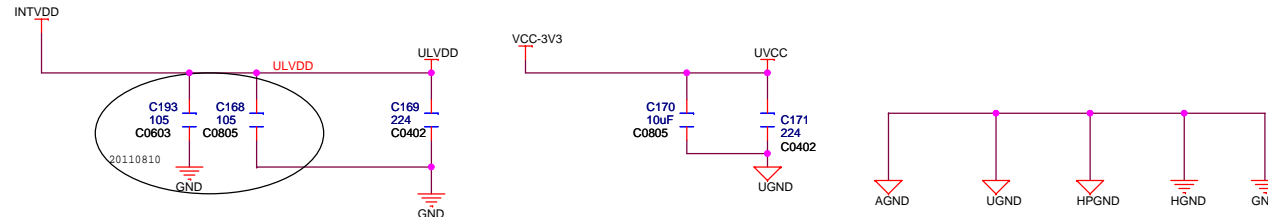
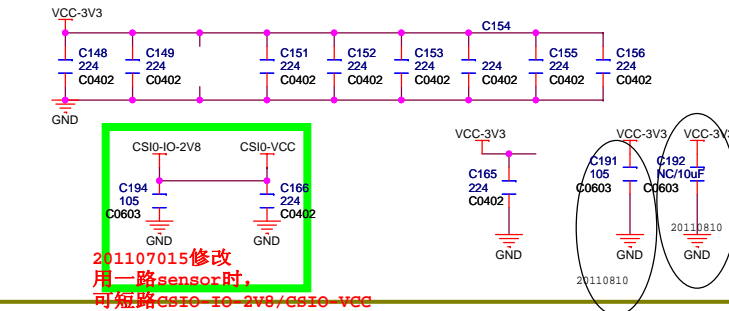
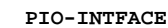
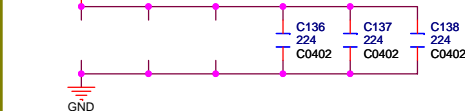
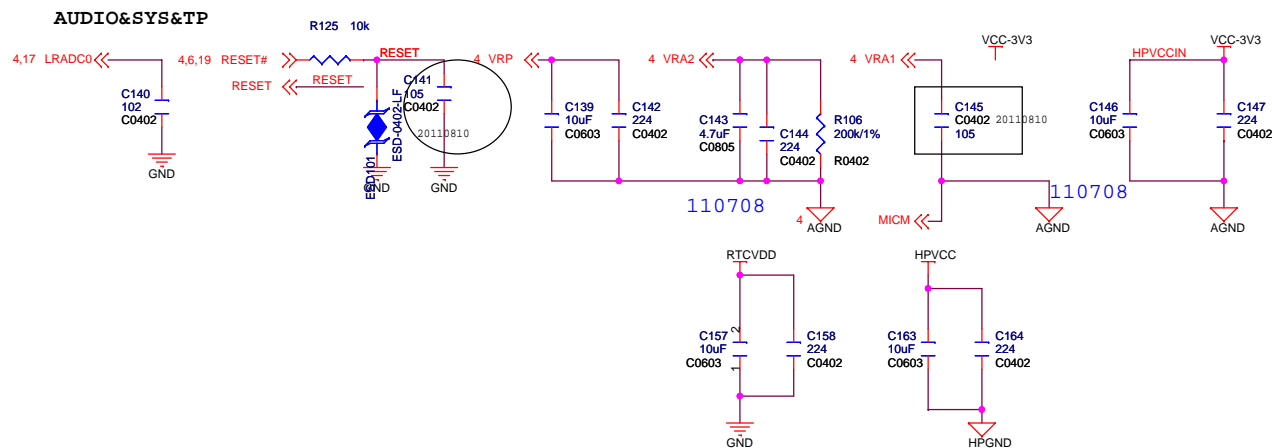
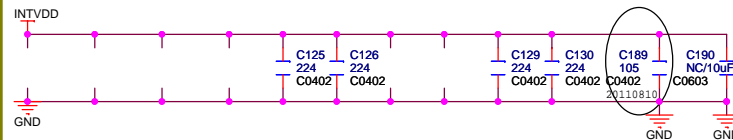
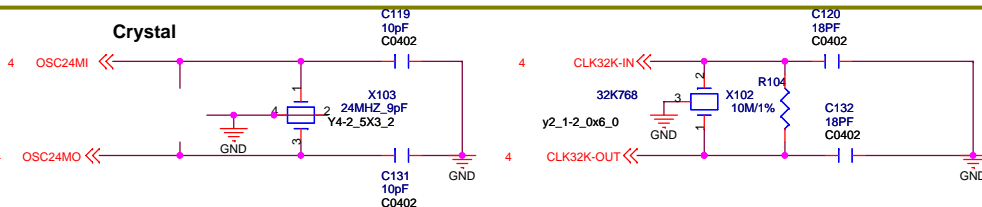
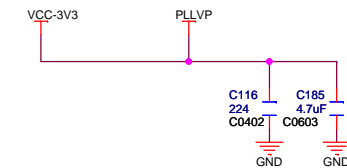
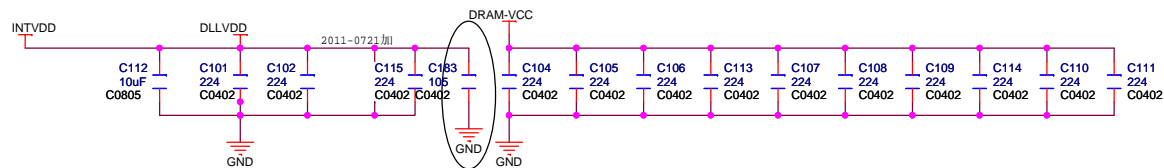
按键可删除，但名称不能修改，电阻不可删除。

1

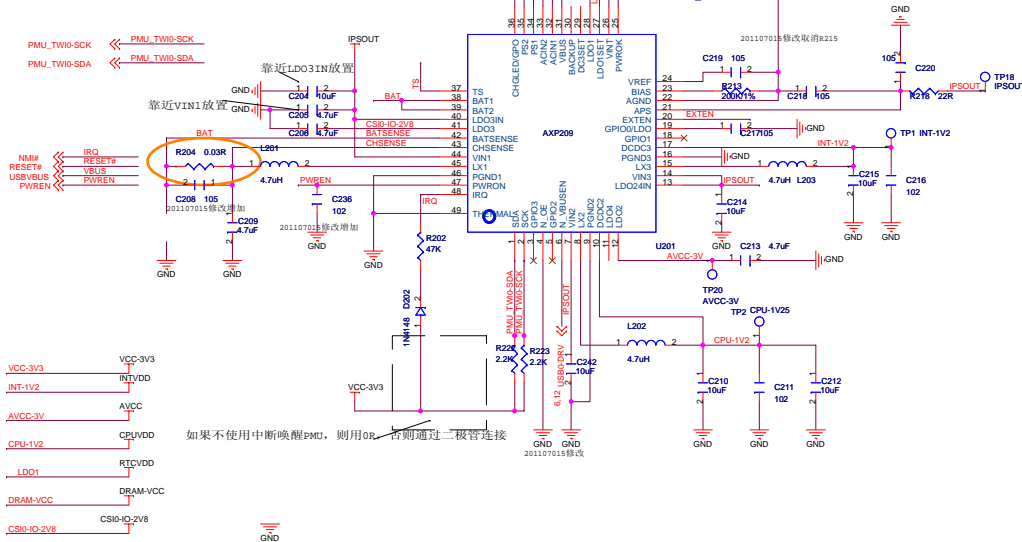
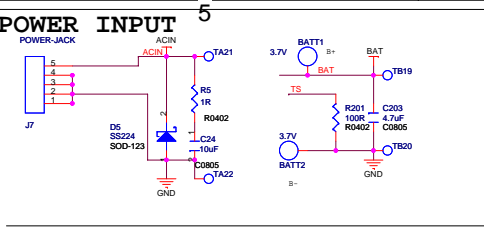


## B





201107015修改  
用一路sensor时，  
可短路CSIO-IO-2V8/CSIO-VCC



AXP209说明:

DCDC2 1.7-2.27V 可调/1.6A Max---默认电压可设置

DCDC3 0.7-3.5V 可调/1.2A Max---默认电压可设置

LDO2 1.8-3.3V可调/200mA---默认电压可设置

LDO3 0.7-3.5V可调/400mA Max---默认电压可设置

LDO4 1.8V-3.3V可调/200mA Max---默认电压可设置

GPIO-LDO 1.8-3.5V可调 50mA Max --需开机设置输出电压

DC3SET ---DCDC3输出电压设置PIN

LDO1SET ---LDO1输出电压设置PIN

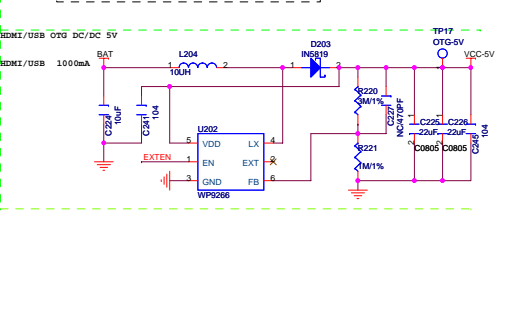
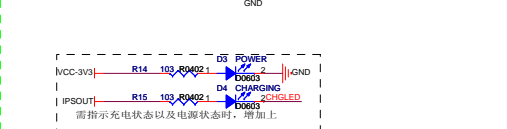
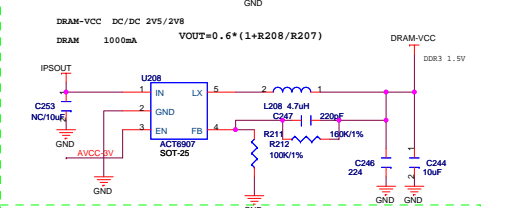
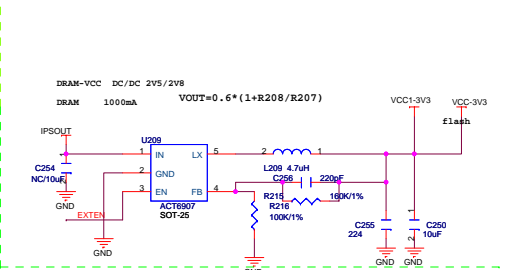
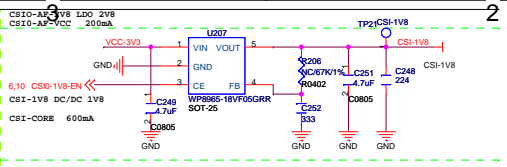
PWM Charger 1.8A Max

DC3SET/LDO1SET 高电平VINT

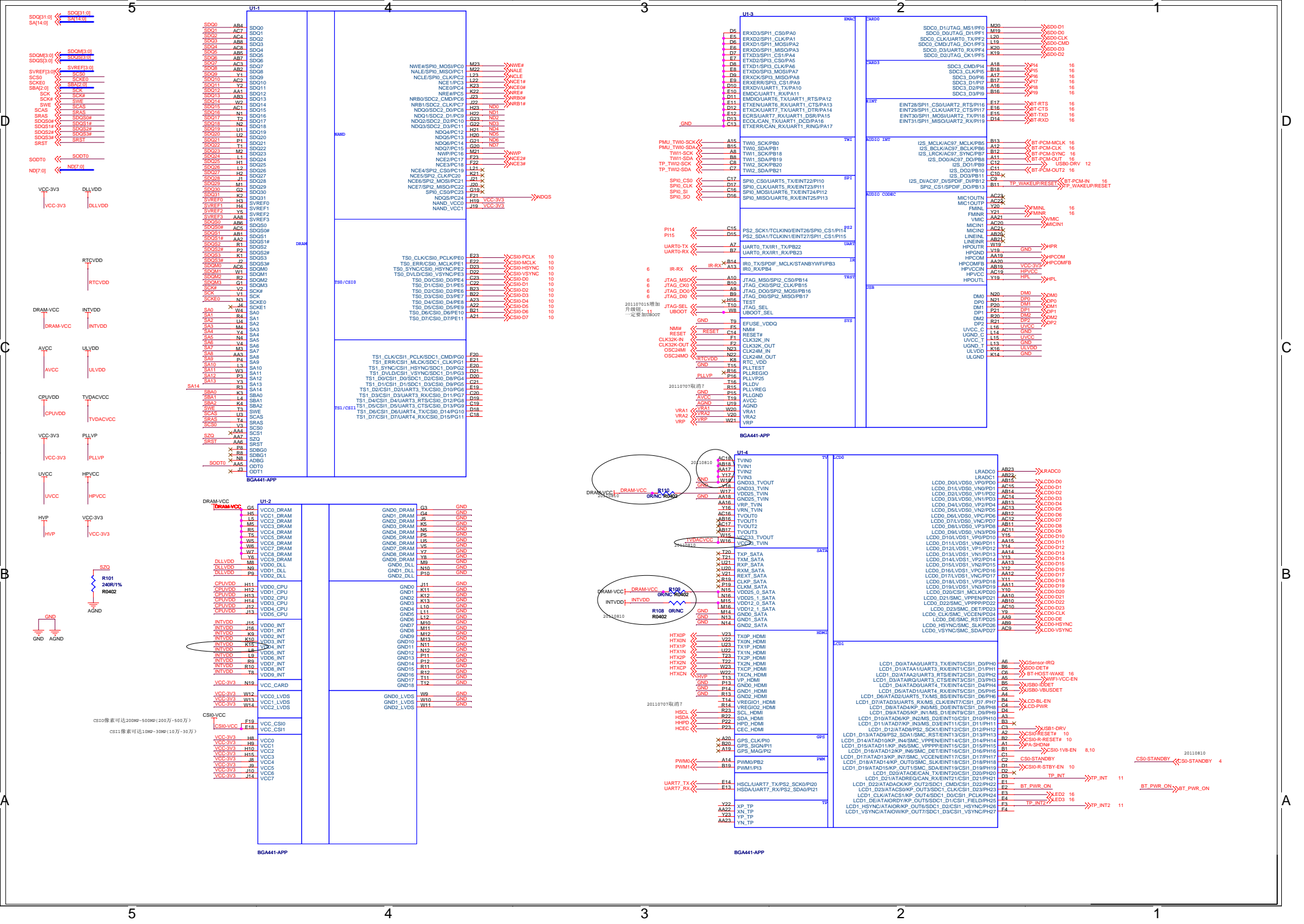
DC3SET	DCDC3 Voltage
HIGH	3.3V
LOW	1.8V
Floating	1.2V

LDO1SET	LDO1 Voltage
HIGH	3.3V
LOW	1.3V

电源名称	输出电压	最大供电能力	预计谁在用
AXP209 DCDC2	1.25V	1600mA	CPU
AXP209 DCDC3	1.2V	1200mA	INTERFACE/HDMI
AXP209 LDO1	1.3V	30mA	RTC
AXP209 LDO2	3V	200mA	AVCC
AXP209 LDO3	2.8V	200mA	CSIO-IO
AXP209 LDO4	2.8V	200mA	CSII-IO
WP8965-18VP05GR	1.8V	600mA	CSII-CORE
WL3022 DC/DC	1.5V/1.8V	1000mA	DRAM
WL3022 DC/DC	3.3V	1000mA	VCC/LCD/NAND/HDMI/WIFI
WP9266PE DC/DC	5V	1000mA	HDMI/USB
WP8935-28VP05GR	2.8V	200mA-300mA	CSIO-AP-VCC
WP8965-12VP05GR	1.2V	200mA-600mA	WIFI

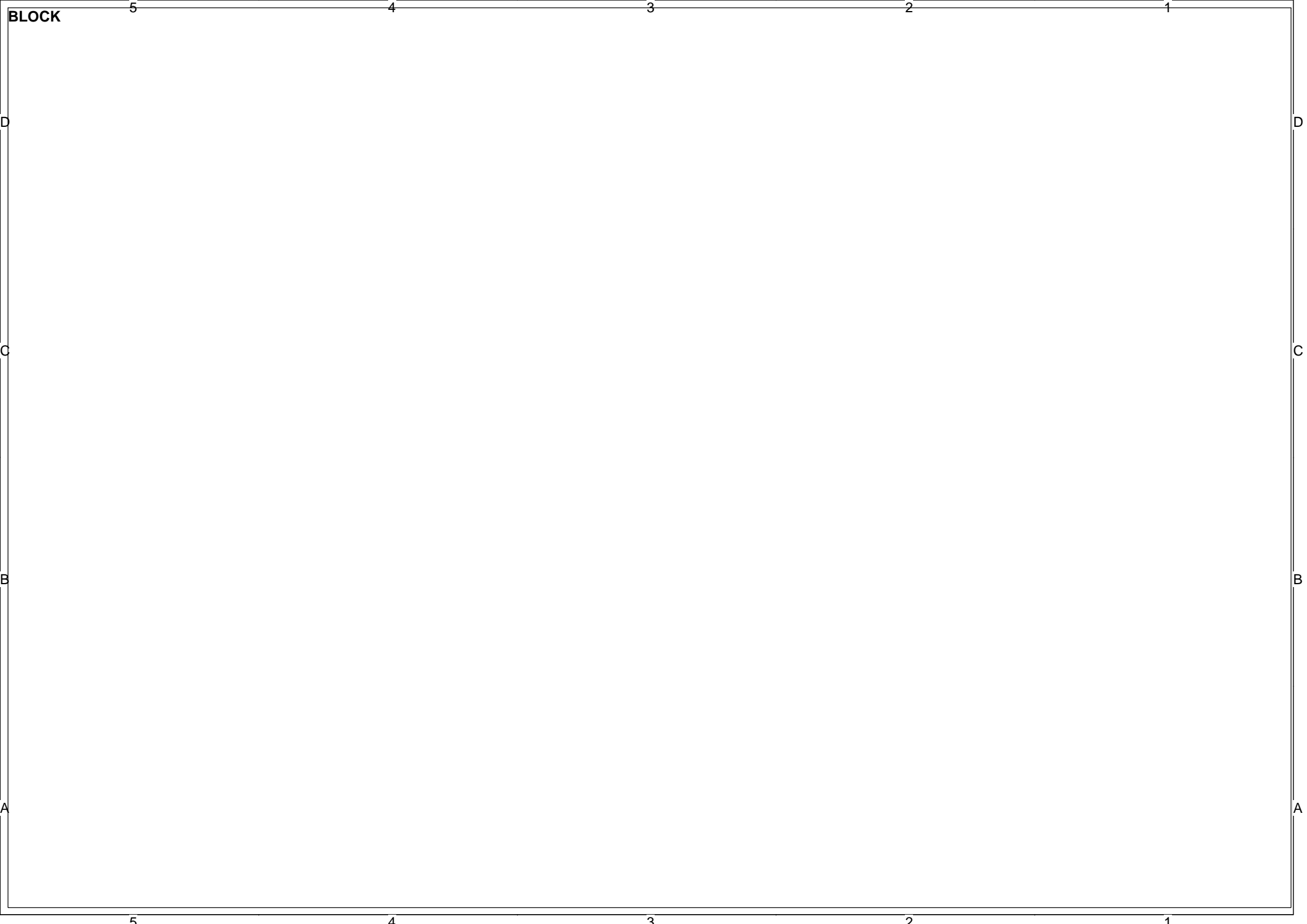






PIO ASSIGNMENT

Pin Group	Pin Name	Define	Function	Pin Group	Pin Name	Define	Function	Pin Group	Pin Name	Define	Function	Pin Group	Pin Name	Define	Function	Pin Group	Pin Name	Define	Function		
PA(18)	PA0	ERXD3	EMAC	PC(25)	PC0	NWE#	NAND	PD(28)	PD18	LCD0_D18	LCD	PH(28)	PH0	EINT0	GS-INT1	PI(22)	PI15	GPIO_OUT	GPS-RX-EN		
	PA1	ERXD2			PC1	NALE			PD19	LCD0_D19			PH1	GPIO_IN	SD0-DET#		PI16	UART2_RTS	BT-UART-RTS		
	PA2	ERXD1			PC2	NCLE			PD20	LCD0_D20			PH2	GPIO_IN	SD1-DET#		PI17	UART2_CTS	BT-UART-CTS		
	PA3	ERXD0			PC3	NCE1			PD21	LCD0_D21			PH3	GPIO_OUT	USB2-DRV		PI18	UART2_TX	BT-UART-TX		
	PA4	ETXD3			PC4	NCE0			PD22	LCD0_D22			PH4	GPIO_IN	USB0-IDDET		PI19	UART2_RX	BT-UART-RX		
	PA5	ETXD2			PC5	NRE#			PD23	LCD0_D23			PH5	GPIO_IN	USB0-VBUSDET		PI20	GPIO_OUT	BT-GPIO0		
	PA6	ETXD1			PC6	NRB0			PD24	LCD0_CLK			PH6	GPIO_OUT	USB1-DRV		PI21	GPIO_OUT	BT-GPIO1		
	PA7	ETXD0			PC7	NRB1			PD25	LCD0_DE			PH7	GPIO_OUT	LCD-BL-EN						
	PA8	ERXCK			PC8	NDQ0			PD26	LCD0_HSYNG			PH8	GPIO_OUT	LCD-PWR						
	PA9	ERXERR			PC9	NDQ1			PD27	LCD0_VSYNG			PH9	GPIO_OUT	WIFI-SHDN#						
	PA10	ERXDV			PC10	NDQ2		PE0	CSI0_PCLK	CSI0	PH10		GPIO_OUT	WIFI-HOST WAKEUP							
	PA11	EMDC			PC11	NDQ3		PE1	CSI0_MCLK		PH11		GPIO_OUT	WIFI-VDD-EN							
	PA12	EMDIO			PC12	NDQ4		PE2	CSI0_HSYNG		PH12		GPIO_OUT	WIFI-VCC-EN							
	PA13	ETXEN			PC13	NDQ5		PE3	CSI0_VSYNG		PH13		GPIO_OUT	CSI0-RESET#							
	PA14	ETXCK			PC14	NDQ6		PE4	CSI0_D0		PH14		GPIO_OUT	CS11-RESET#							
	PA15	ECRS			PC15	NDQ7		PE5	CSI0_D1		PH15		GPIO_OUT	PA-SHDN#							
	PA16	ECOL			PC16	NWP		PE6	CSI0_D2		PH16		GPIO_OUT	CSI0-1V8-EN							
PA17	GPIO_OUT	E-RST	PC17		NCE2	PE7		CSI0_D3	PH17		GPIO_OUT		CS11-1V8-EN								
PB(24)	PB0	TWI0_SCK	PMU		PC18	NCE3		GPS-SCS	PF(6)		PF0		SDC0_D1	SDC0	PH18		EINT18	CSI0-STBY-EN			
	PB1	TWI0_SDA			PC19	SPI2_CS					GPS-SCS		PF1		SDC0_D0		PH19	EINT19	CS11-STBY-EN		
	PB2	PWM0			PWM	PC20				SPI2_SCLK	GPS-SCLK		PF2		SDC0_CLK		PH20	EINT20	LS-INT		
	PB3	GPIO_OUT	CP-RST		PC21	SPI2_MOSI				GPS-MOSI	PF3		SDC0_CMD		PH21		EINT21	TP-INT			
	PB4	IR0_RX	IR		PC22	GPIO_OUT				GPS-VCC-EN	PF4		SDC0_D3		PH22	SDC1_CMD	SDC1				
	PB5	GPIO_OUT	BT-RST		PC23	NC					PF5		SDC0_D2		PH23	SDC1_CLK					
	PB6	I2S_BCLK	BT-PCM-CLK		PC24	NDQS			PG0	CSI1_PCLK	PH24		SDC1_D0								
	PB7	I2S_LRCK	BT-PCM-SYNC	PD(28)	PD0	LCD0_D0	LCD	PG(12)	PG1	CSI1_MCLK	PH25		SDC1_D1								
	PB8	I2S_DO0	BT-PCM-OUT		PD1	LCD0_D1			PG2	CSI1_HSYNG	PH26		SDC1_D2								
	PB9	GPIO_OUT	USB0-DRV		PD2	LCD0_D2			PG3	CSI1_VSYNG	PH27		SDC1_D3								
	PB10	GPIO_OUT	LCD0-SCK		PD3	LCD0_D3			PG4	CSI1_D0	PI(22)	PI0	GPS_CLK	GPS							
	PB11	GPIO_OUT	LCD0-SDA		PD4	LCD0_D4			PG5	CSI1_D1		PI1	GPS_SIGN								
	PB12	I2S_DI	BT-PCM-IN		PD5	LCD0_D5			PG6	CSI1_D2		PI2	GPS_MAG								
	PB13	GPIO_OUT	TP-WAKEUP		PD6	LCD0_D6			PG7	CSI1_D3		PI3	PWM1								
	PB14	JTAG_MS0	JTAG		PD7	LCD0_D7			PG8	CSI1_D4		PI4	SDC3_CMD	WIFI							
	PB15	JTAG_CK0			PD8	LCD0_D8			PG9	CSI1_D5		PI5	SDC3_CLK								
	PB16	JTAG_DO0			PD9	LCD0_D9			PG10	CSI1_D6		PI6	SDC3_D0								
	PB17	JTAG_DI0			PD10	LCD0_D10			PG11	CSI1_D7		PI7	SDC3_D1								
	PB18	TWI1_SCK	TWI1		PD11	LCD0_D11						PI8	SDC3_D2								
	PB19	TWI1_SDA			PD12	LCD0_D12						PI9	SDC3_D3								
	PB20	TWI2_SCK	TWI2		PD13	LCD0_D13						PI10	SPI0_CS0	GS-INT2							
	PB21	TWI2_SDA			PD14	LCD0_D14						PI11	SPI0_CLK	CSI0-AF-EN							
	PB22	UART0_TX			UART (DEBUG)	PD15			LCD0_D15				PI12	SPI0_MOSI	TV-EN						
	PB23	UART0_RX			PD16	LCD0_D16						PI13	SPI0_MISO	CP-INT							
			PD17		LCD0_D17						PI14	GPIO_OUT	GPS-OSC-EN								



Notes: Unless Otherwise Stated

Scheme Spec:

FLASH: MLC, 3.3V  
DRAM: DDR2/3 1.8V /1.5V  
Key: NEXT, PREV, Vol+, Vol-, UP, DOWN, ENTER, UBOOT  
Power: DCIN, 5V, 2A; BAT, 3.7V, 3600mAH  
USB0: OTG  
USB1: HOST  
USB2: HOST  
WIFI: SDIO WIFI  
Card: TFcard\*2  
Other: GPS, FM, Headphone, MIC, G-Sensor, camera

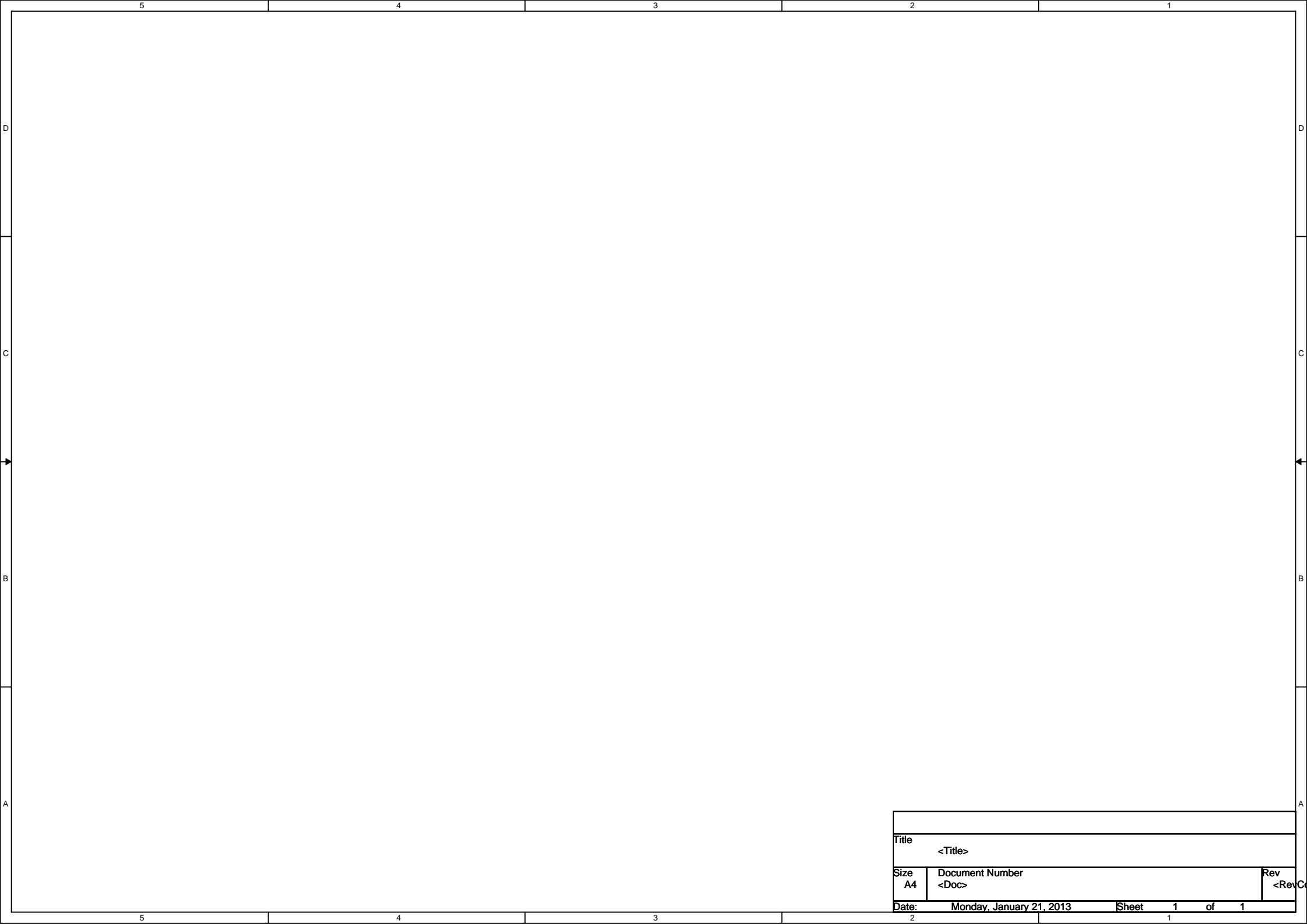
Power Supply:

电源分配表: 电源名称	输出电压	最大供电能力	预计谁在用
AXP209 DCDC2	1.25V	1600mA	CPU
AXP209 DCDC3	1.2V	1200mA	INTERFACE/HDMI
AXP209 LDO1	1.3V	30mA	RTC
AXP209 LDO2	3V	200mA	AVCC
AXP209 LDO3	2.8V	200mA	CSI0-IO
AXP209 LDO4	2.8V	200mA	CSI1-IO
WP8965-18VF05GRR	1.8V	600mA	CSI-CORE
WL3022 DC/DC	1.5V/1.8V	1000mA	DRAM
WL3022 DC/DC	3.3V	1000mA	VCC/LCD/NAND/HDMI/WIFI
WP9266PE DC/DC	5V	1000mA	HDMI / USB
WP8935-28VF05GRR	2.8V	200mA-300MA	CSI0-AF-VCC
WP8965-12VF05GRR	1.2V	200mA-600MA	WIFI

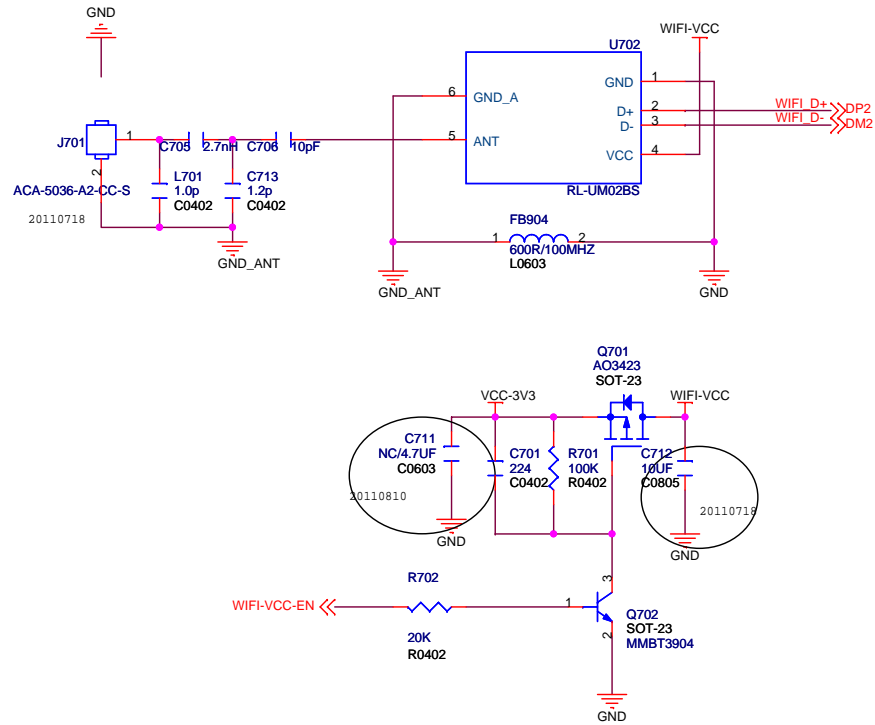
Schematics Index:

- P01: COVER
- P02: BLOCK
- P03: PIO ASSIGNMENT
- P04: POWER TREE
- P05: CPU1
- P06: CPU2
- P07: POWER1
- P08: POWER2
- P09: BESIDE CPU
- P10: HDMI-CSI
- P11: HP-FM-KEY-MIC-IR-TVOUT
- P12: USB-CARD
- P13: LCD
- P14: DRAM3
- P15: NAND
- P16: WIFI-GSENSOR
- P17: GPS

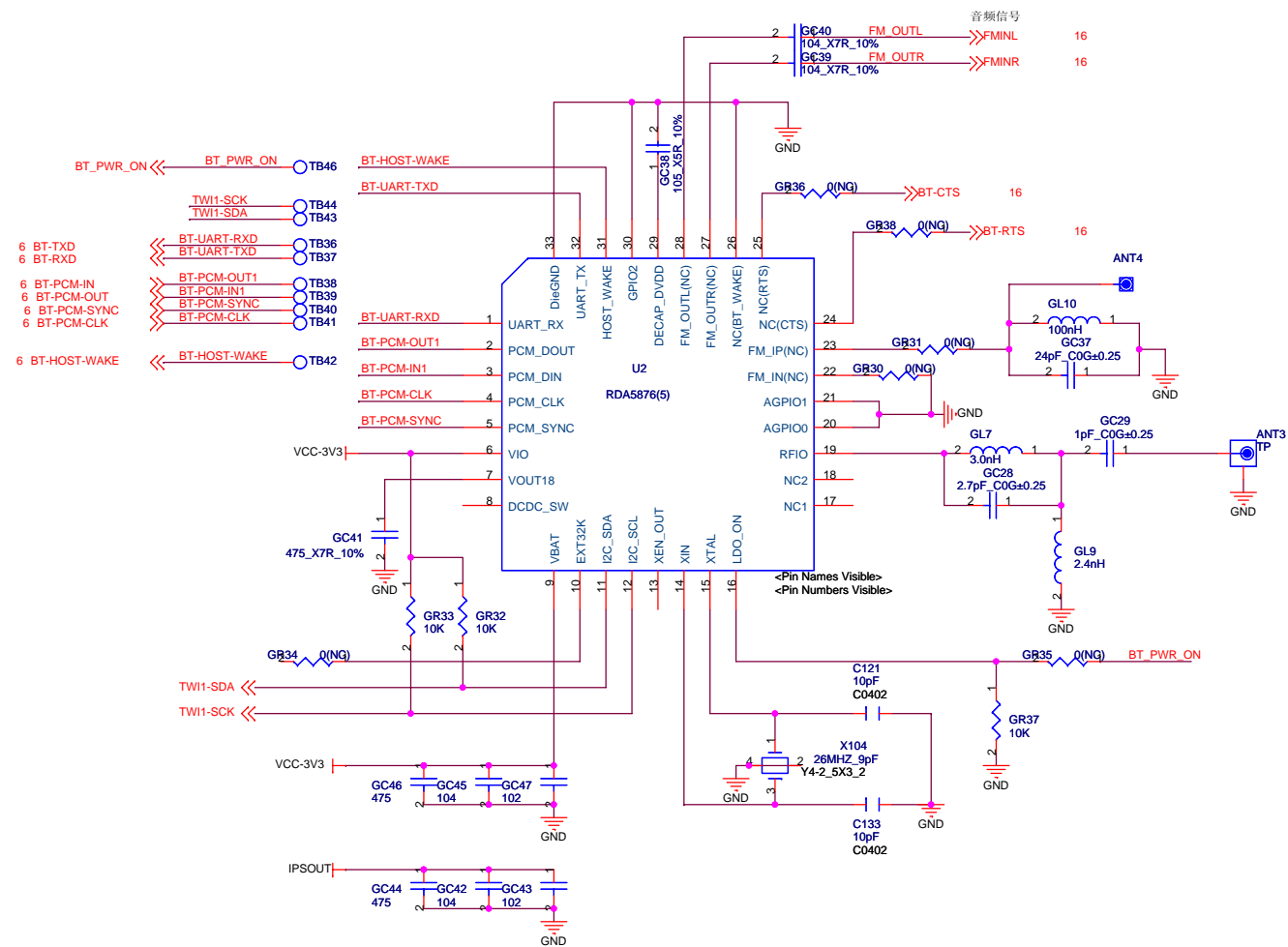
Rev	Description	Date	Drawn	Checked	Approved
PAD_MAINCHIP_STD_V1.13	没有ACIN的时候与USBVBUS短接	2011-06-30	Leo		
PAD_MAINCHIP_STD_V1.14	增加LVDS和CTP的连接方式	2011-07-06	Leo		
PAD_MAINCHIP_STD_V1.15	更改了UBOOT按键电路,WIFI电源电路	2011-07-07	Leo		
PAD_MAINCHIP_STD_V1.15	更改了USB限流电路	2011-07-08	Leo		
PAD_MAINCHIP_STD_V1.15	更改了电源电路	2011-07-12	Leo		



# WIFI



		Draw	Victory	
Size B	Document Number WIFI	Approved	CHENKX	Rev A0
Date:	Monday, January 21, 2013	Sheet	13 of 17	



WT-M76:1108(1(V0)版SCH修改记录:

- (1) 增加测试点-panel
- (2) 对喇叭功放输出稍调大少许:R312/R318由原4.7k改为3.3k,R314/R317由原6.8k改为7.5k
- (3)增加了CPT和群创tn92的屏的不同器件的提示, 如下:  
AT070TN93  
1:AVDD=10.4V, VGL=-7V,  
VGH=16V.VCOM=3.4+/-0.2V,R825=27K  
D805=7V, D806=16V, R824=27K ,R823=197K  
CPT7"-800X480  
1:AVDD=9.6V, VGL=-6V,  
VGH=18V.VCOM=3.9+/-0.2V,R825=18K  
D805=6V, D806=18V, R824=27K ,R823=180K  
(4) 取消了电容屏的供电, R867/R866=NC.  
(5)修改了HDMI的5v接口电路, 供电电阻R405由原7.5欧姆改为3.3欧姆.  
(6) 删除了CON801连接器.  
(7) 修改了WIFI电路的匹配, C705由原22PF改为1.5PF,原C714改为L701高频电感=2.4NH+/-10%, SMT0402,测试电流/频率:  
0.3A@100MHZ  
(8)修改了定位孔H3/H4.  
(9)摄像头的连接器J901用下接  
(10)AC18/AB18/AA17/Y17/W18由原悬空改为接地, 方便散热.  
(11) 在DRAM-VCC和w17间串接增加了R110\_0R. 使系统稳定.  
(12) 在DRAM-VCC和N15/N16间串接增加了R109\_0R. 使系统稳定.  
(13) 在INTVDD和M15/M16间串接增加了R108\_0R. 使系统稳定.  
(14) ddr电源部分R217由原150k改为160k,提高DRAM-VCC电压0.05v,使系统稳定.  
(15) wifi电源部分wifi-vdd-en增加R214\_47k下拉电阻, 使系统稳定.  
(16)c191由原4.7uf改为105,c145由原224改为105,c189由原4.7uf改为105,c192由原10uf改为nc.c172由原10uf-0805改为105-0603.  
c141由原224改为105,c193由原4.7uf改为105,c168由原10uf改为105.c183由原4.7uf改为105, c711由原4.7uf改为nc.  
(17)修改了hdmi3v3供电电路, 增加了二极管D101-IN5819\_SOD123, 防止hdmi倒灌。  
(18)修改了R809/C806的上拉供电电路, 由vcc改为lcd-vcc.  
(19)usb-id pin上增加了R152\_1k串接,防止esd损坏主控。  
(20) 省去了摄像头多余的供电电路: R908/R911/R912/Q902/Q901/C906=NC.  
(21)修改了摄像头的CSI-STANDBY电路, 连接到主控的PH18 IO口上C2 PIN.CSI-STANDBY改为CS0-STANDBY.R910c711由原100K改为47K,  
R909原510K改为NC.  
(22)OQ1-AO3423改为Q804-AO3423.

M76(V0)版PCB修改记录:

- (1)上面的三个按键整体下移0.1mm.
- (2) MICRO-USB向外移0.8mm.加大了定位脚焊盘和过孔.
- (3) 添加了测试点.
- (4) 修改了wifi的配匹电路.
- (5) 加大了电源输出端的过孔
- (6) 电源芯片下面的过孔加大加多, 解决散热问题.
- (7) 修改了定位孔, 左边的减小0.1mm,右边靠接插件的孔位改为椭圆形: 2.6mmx2.9mm.
- (8)板边靠下方的部位减小0.15mm.

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