

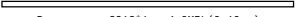
CONTENT INDEXING

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13. CAMERA/SENSOR/KEY
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15. GPS

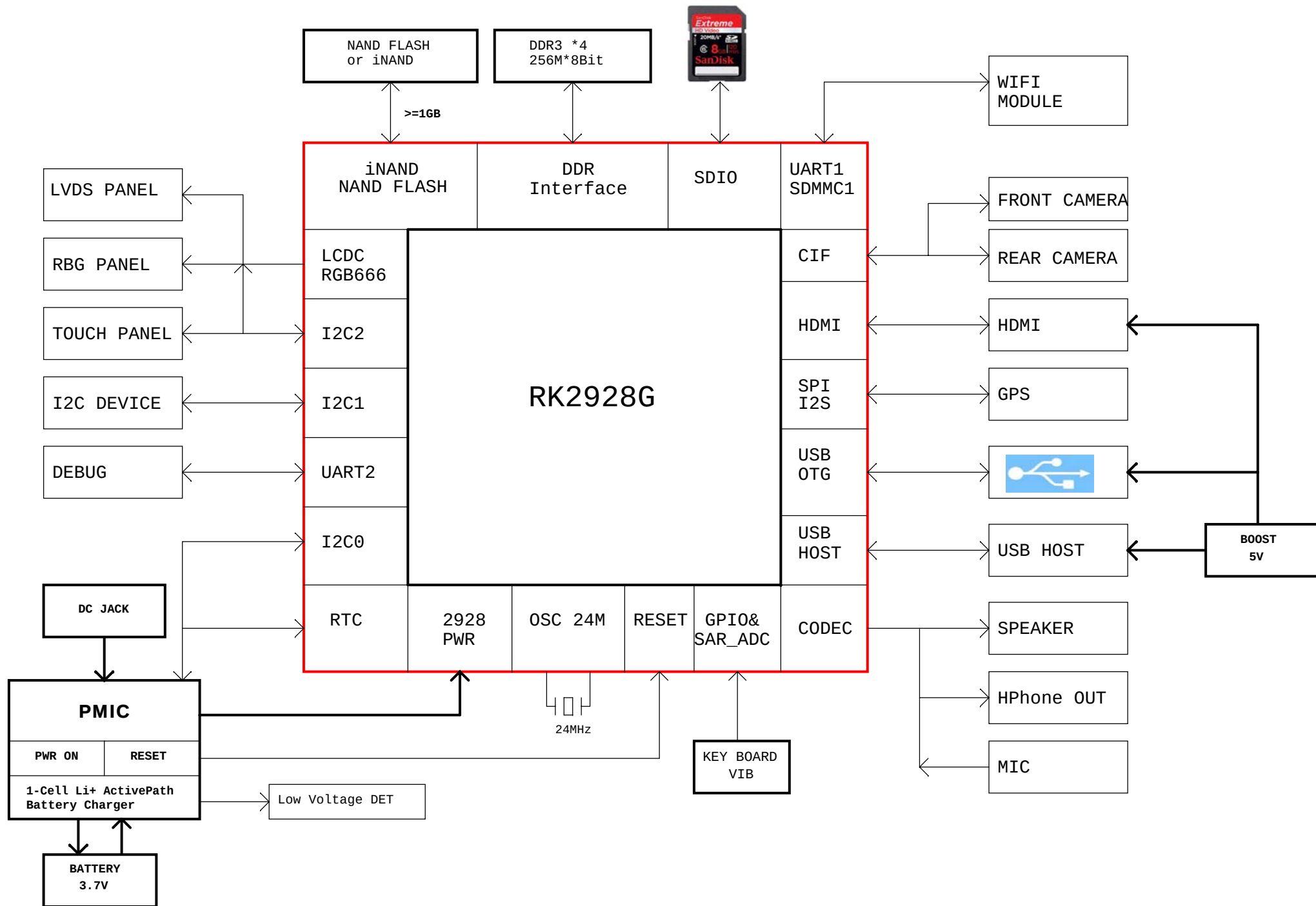
PCB POWER WIRE WIDTH INDICATE

	above 80 miles
	above 50 miles
	above 30 miles
	above 16 miles
No indicate	Under needs
	Feedback Line

4 LAYERS PCB STACK

TOP		Hoz(18um) + plating copper(18um)
GND		1oz(35um)
	Adjust	
POWER		1oz(35um)
BOTTOM		Hoz(18um) + plating copper(18um)

Version	Date	Author	Change Note	Note
V1.0	20120920	LX	First edictor	



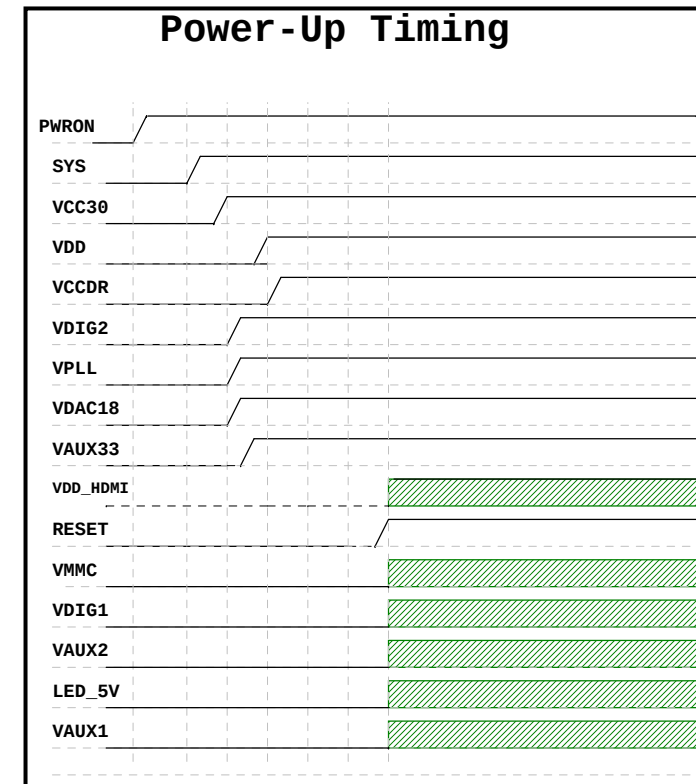
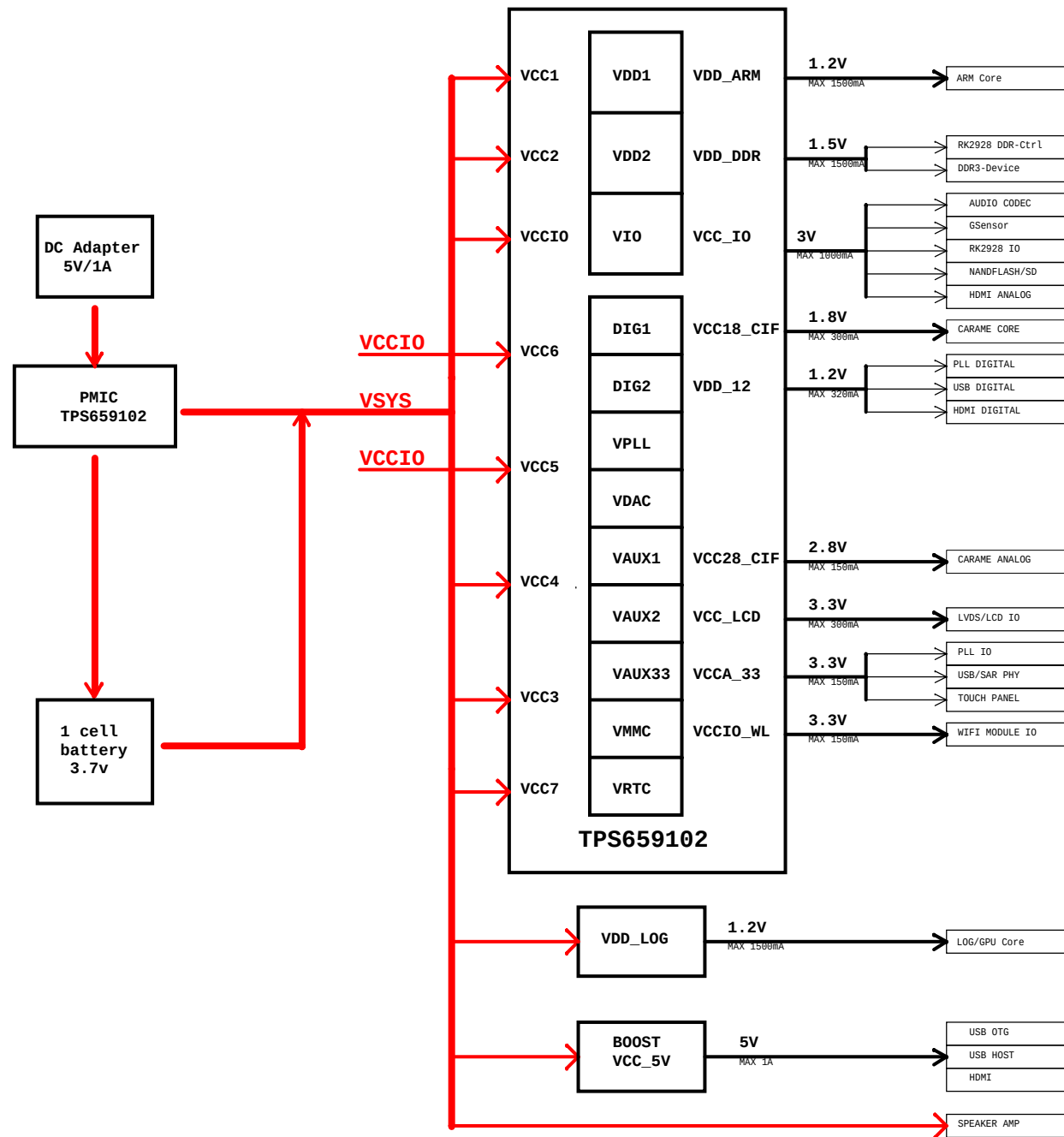
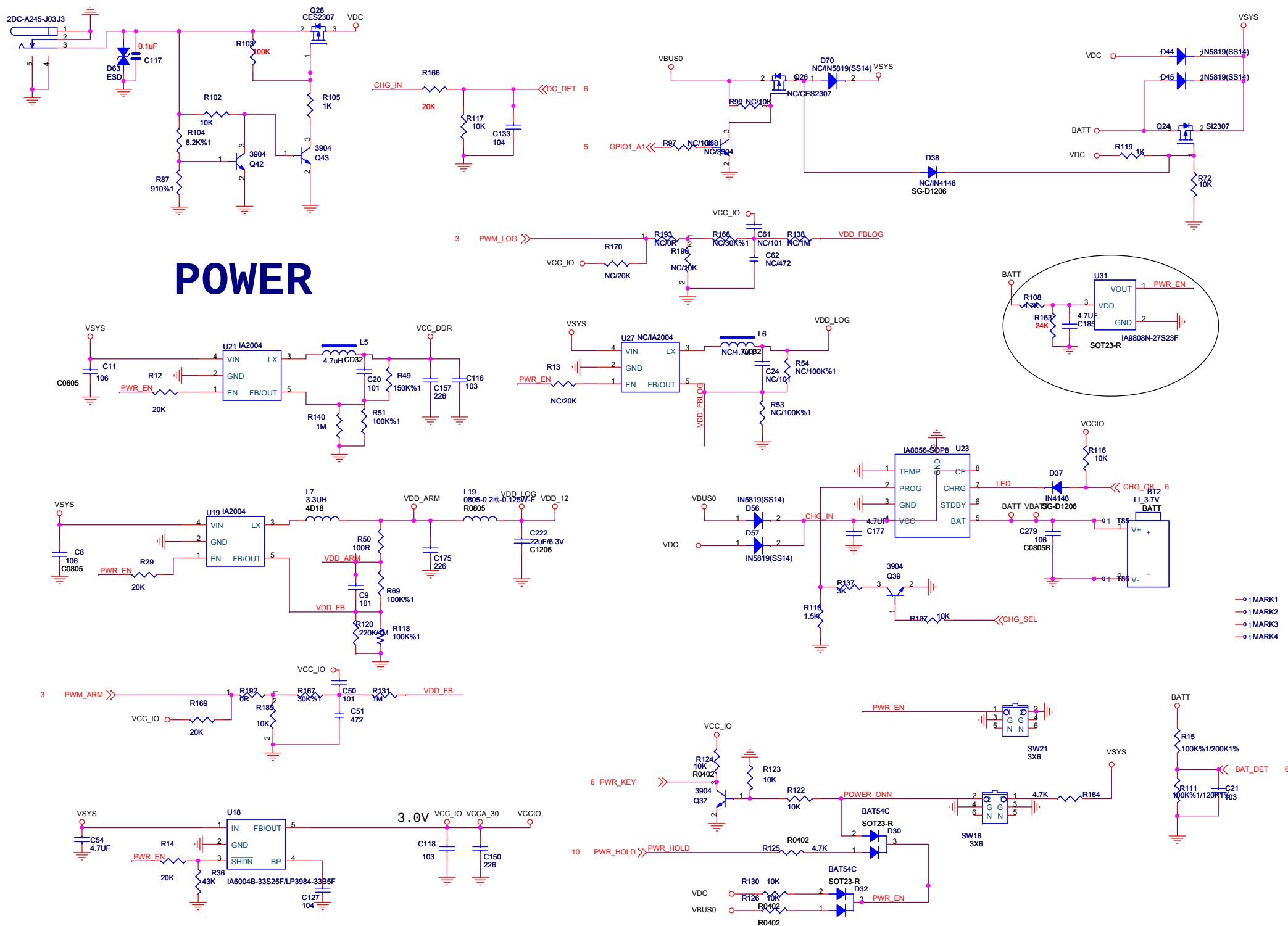


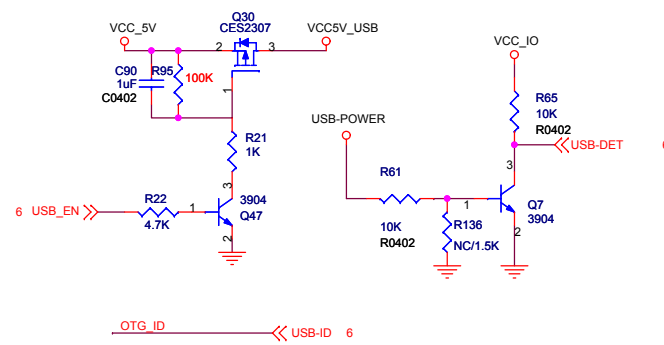
Table 12. Power Sources

RESOURCE	TYPE	VOLTAGES	POWER
VIO	SMPS	1.5 V / 1.8 V / 2.5 V / 3.3 V	1000 mA
VDD1	SMPS	0.6 ... 1.5 in 12.5-mV steps Programmable multiplication factor: x2, x3	1500 mA
VDD2	SMPS	0.6 ... 1.5 in 12.5-mV steps Programmable multiplication factor: x2, x3	1500 mA
VDD3	SMPS	5 V	100 mA
VDIG1	LDO	1.2 V, 1.5 V, 1.8 V, 2.7 V	300 mA
VDIG2	LDO	1 V, 1.1 V, 1.2 V, 1.8 V	300 mA
VPLL	LDO	1.0 V, 1.1 V, 1.8 V, 2.5 V	50 mA
VDAC	LDO	1.8 V, 2.6 V, 2.8 V, 2.85 V	150 mA
VAUX1	LDO	1.8 V, 2.5 V, 2.8 V, 2.85 V	300 mA
VAUX2	LDO	1.8 V, 2.8 V, 2.9 V, 3.3 V	150 mA
VAUX33	LDO	1.8 V, 2.0 V, 2.8 V, 3.3 V	150 mA
VMMC	LDO	1.8 V, 2.8 V, 3.0 V, 3.3 V	300 mA

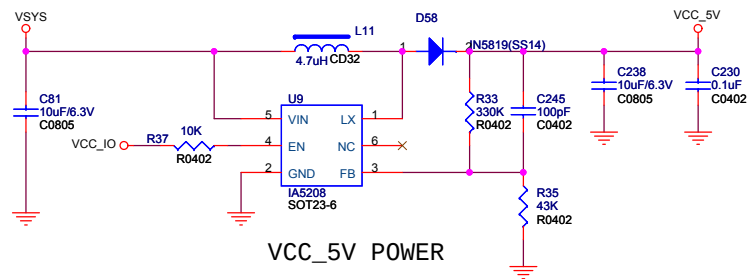
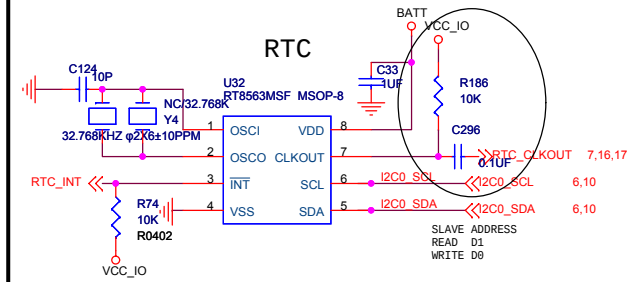


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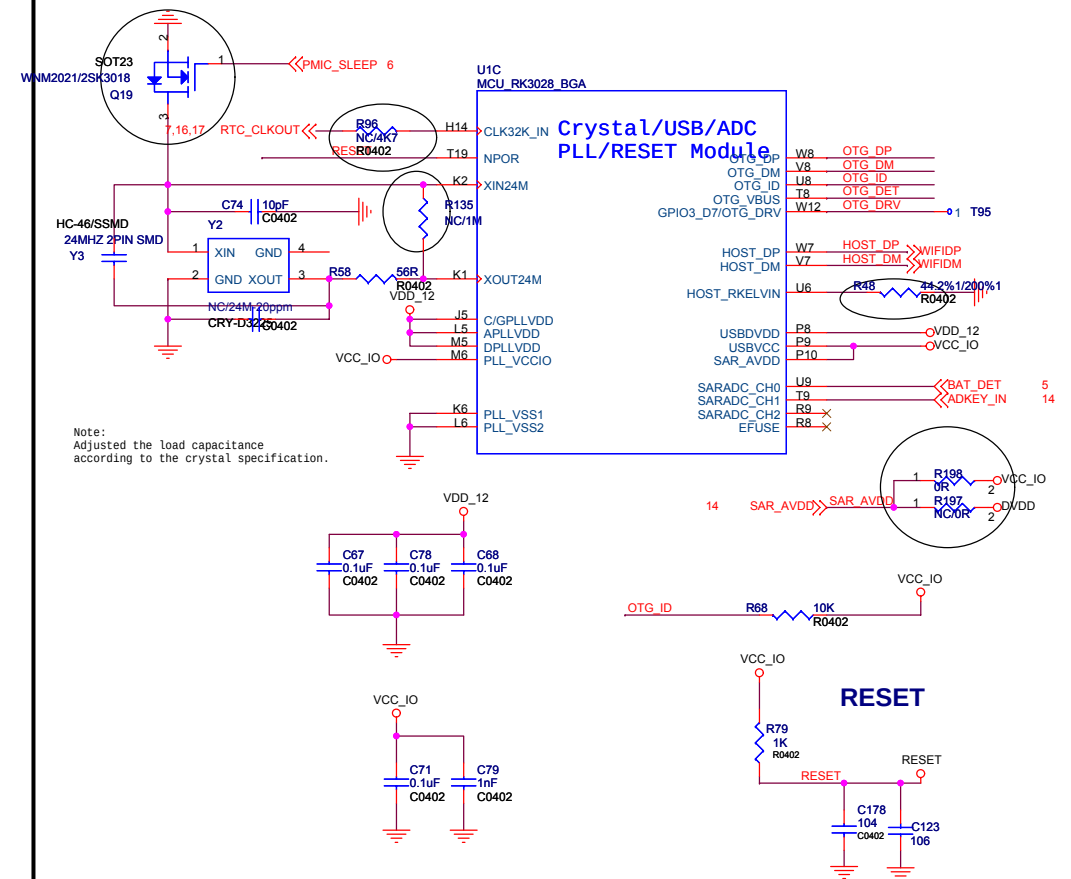
USB OTG PORT



OTG POWER



VCC_5V POWER



RK2928-C

NAND FLASH

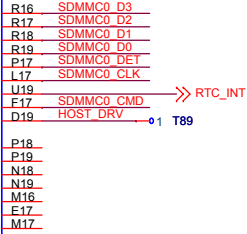
U10
MCU_RK3028_BGA

SDMMC Module

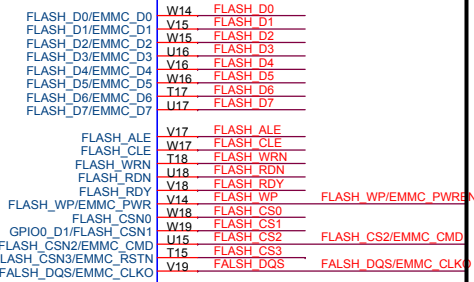
GPIO3_A7/SDMMC0_D3	
GPIO3_A8/SDMMC0_D2	
GPIO3_A5/SDMMC0_D1	
GPIO3_A4/SDMMC0_D0	
GPIO3_B0/SDMMC0_DET1	
GPIO3_A2/SDMMC0_CLK0	
GPIO3_A1/SDMMC0_PWR	
GPIO3_A3/SDMMC0_CMD	
GPIO3_B1/SDMMC0_WP	
GPIO3_C4/SDMMC1_D3	
GPIO3_C3/SDMMC1_D2	
GPIO3_C2/SDMMC1_D1	
GPIO3_C1/SDMMC1_D0	
GPIO3_C5/SDMMC1_CLK0	
GPIO3_D0/SDMMC1_PWR	
GPIO3_C0/SDMMC1_CMD	

R16	SDMMC0_D3	
R17	SDMMC0_D2	
R18	SDMMC0_D1	
R19	SDMMC0_D0	
P17	SDMMC0_DET	
L17	SDMMC0_CLK	
U19		
F17	SDMMC0_CMD	»» RTC_INT
D19	HOST_DRV	» 1 T89
P18		
P19		
N18		
N19		
M16		
E17		
M17		

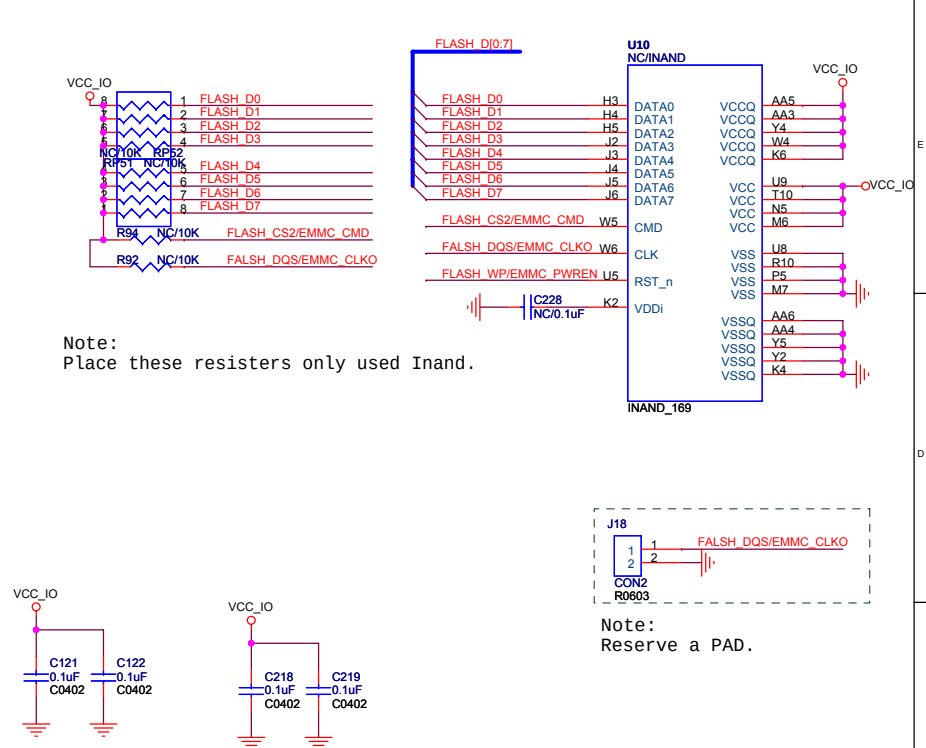
RK2928-H

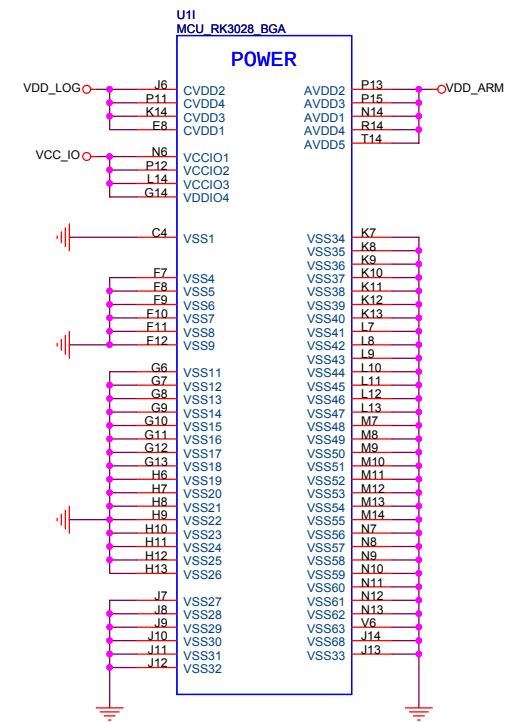
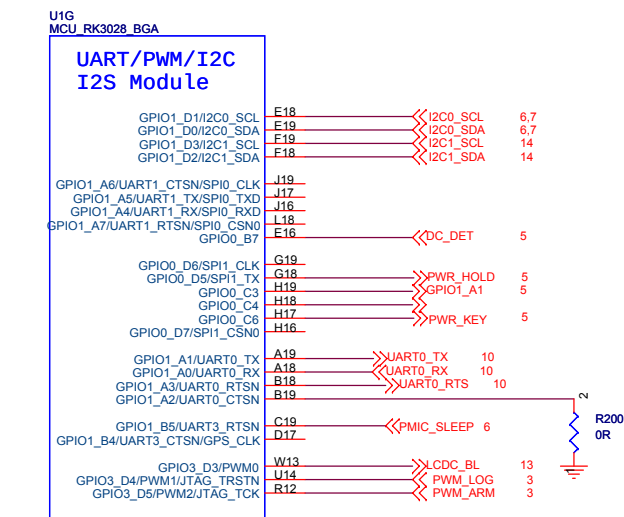


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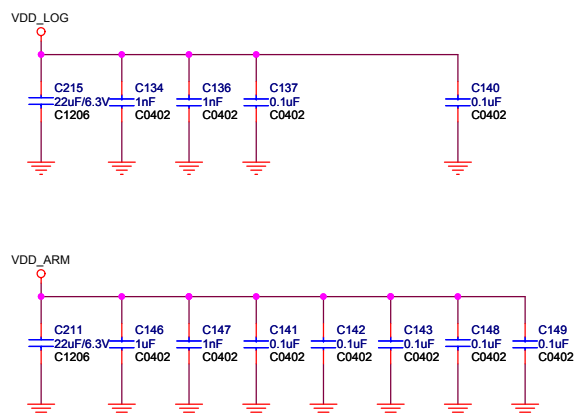
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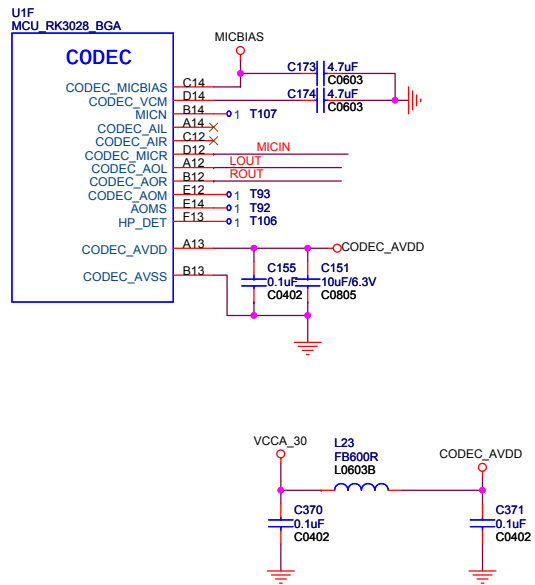


Note:
Place these filter capacitors under CPU.

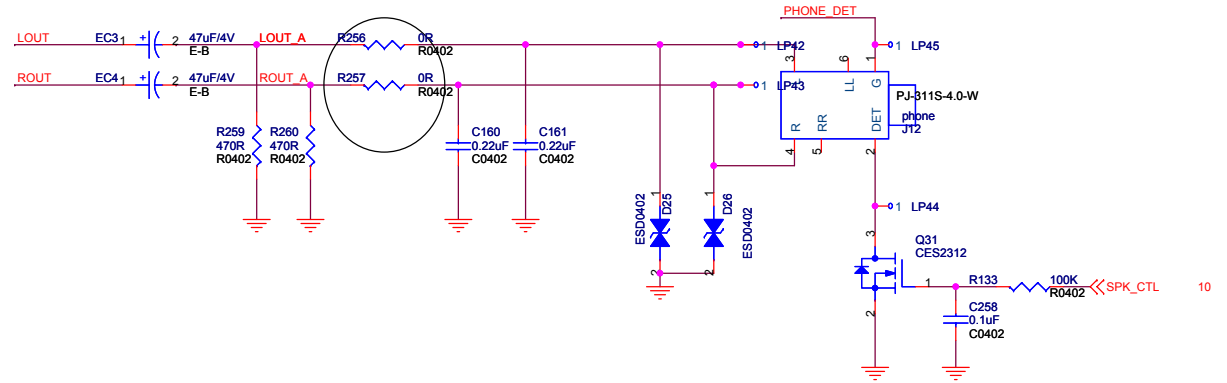
RK2928-I



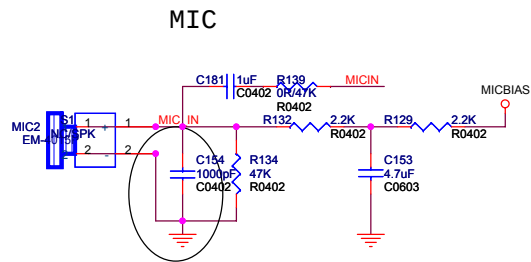
RK2928 POWER FILTER



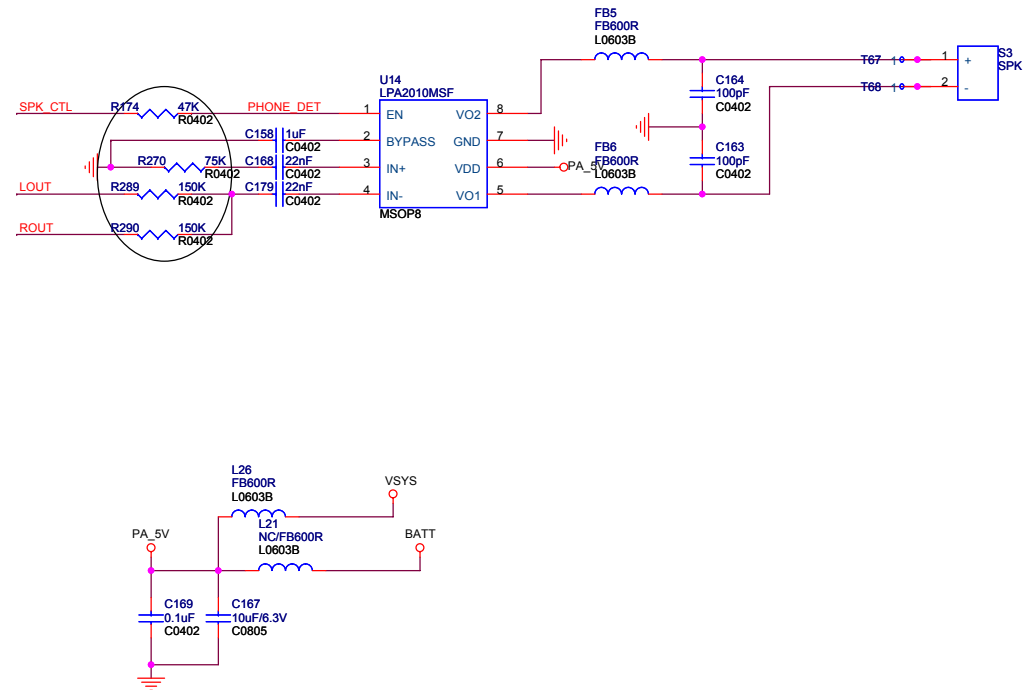
RK2928-F

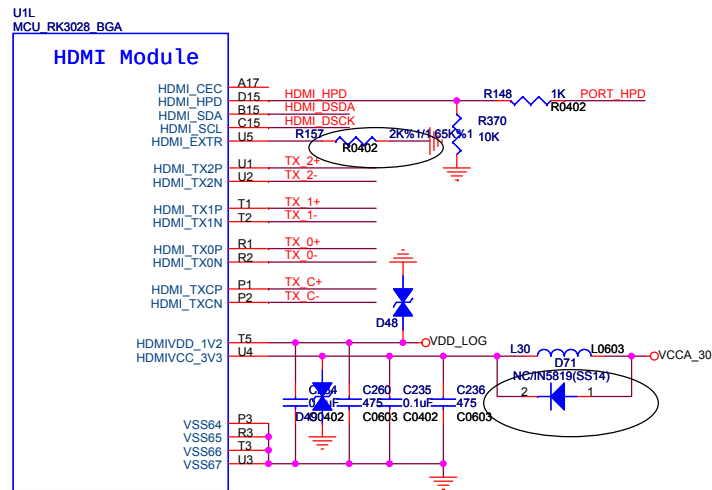


HEADPHONE

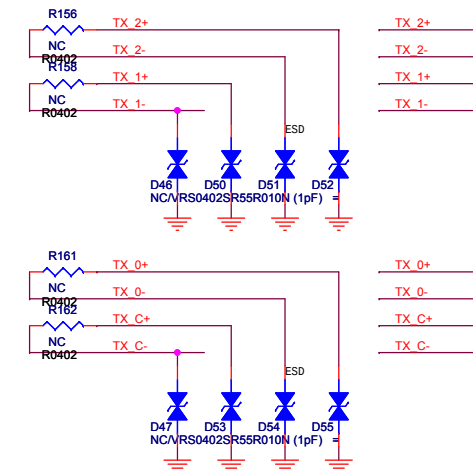
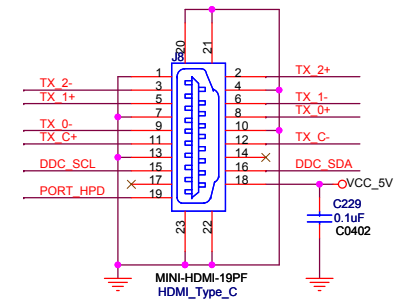
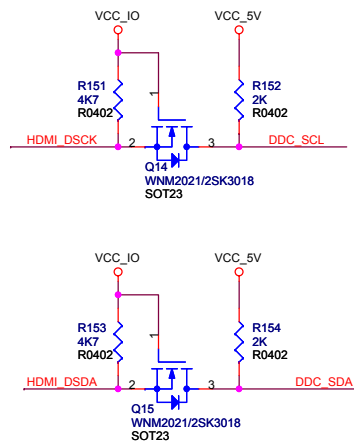


SPEAKER DRIVER

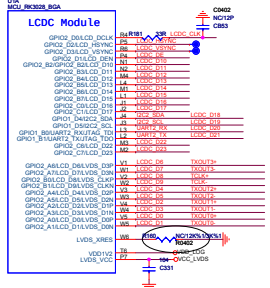
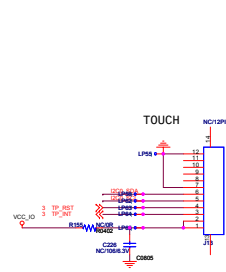
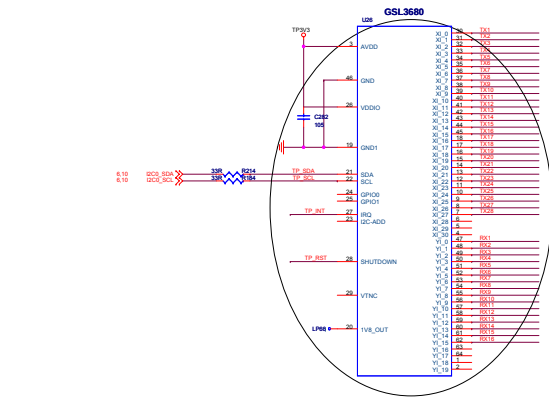




RK2928-L



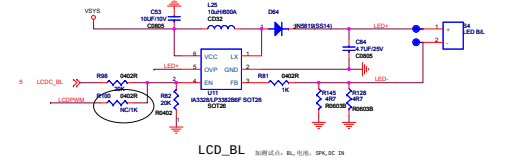
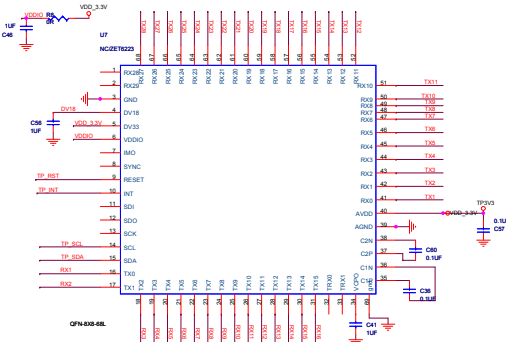
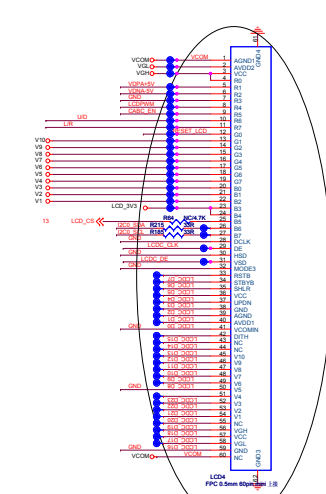
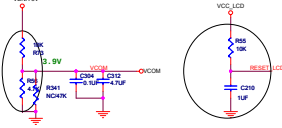
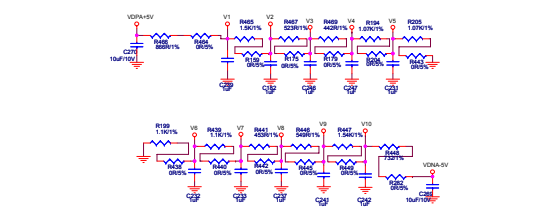
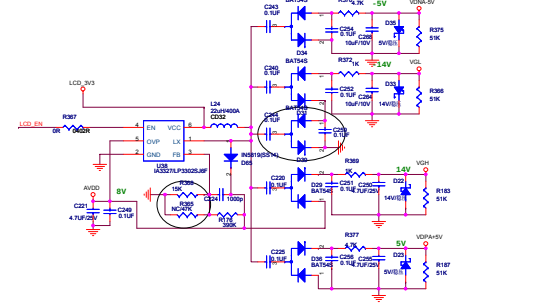
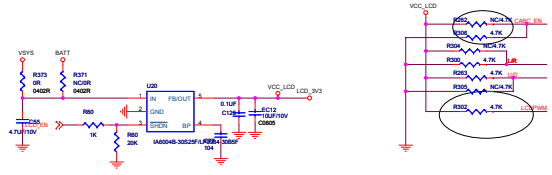
OPTION



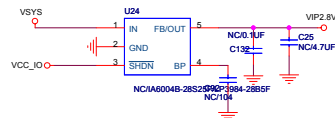
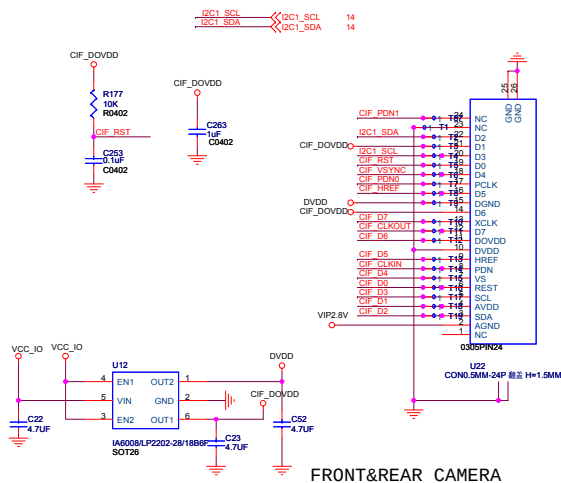
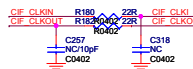
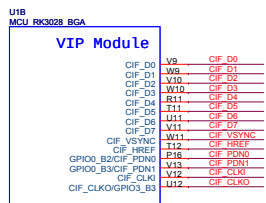
Correspondence between LCDC DATA and RGB

LCDC_D0	B2	LCDC_D9	G5
LCDC_D1	B3	LCDC_D10	G6
LCDC_D2	B4	LCDC_D11	G7
LCDC_D3	B5	LCDC_D12	R2
LCDC_D4	B6	LCDC_D13	R3
LCDC_D5	B7	LCDC_D14	R4
LCDC_D6	G2	LCDC_D15	R5
LCDC_D7	G3	LCDC_D16	R6
LCDC_D8	G4	LCDC_D17	R7

RK2928-A For debug



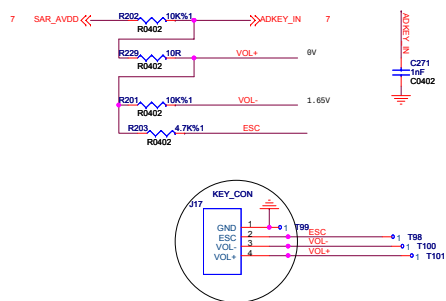
LCD_BL



RK2928-B

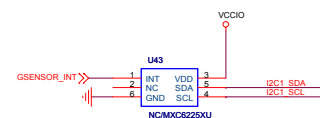
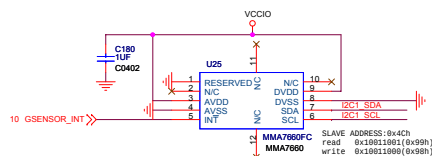
Note: If using other sensor modules, follow to the requirements of SPEC on the power supply.

When the system power on, the Adkey_in level is 0V, RK2928 enter into loader mode.

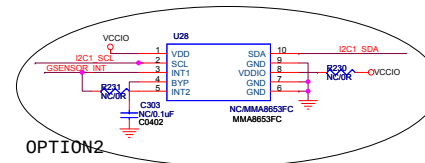
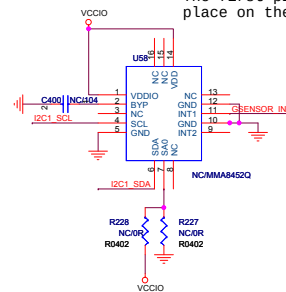


KEY BAORD

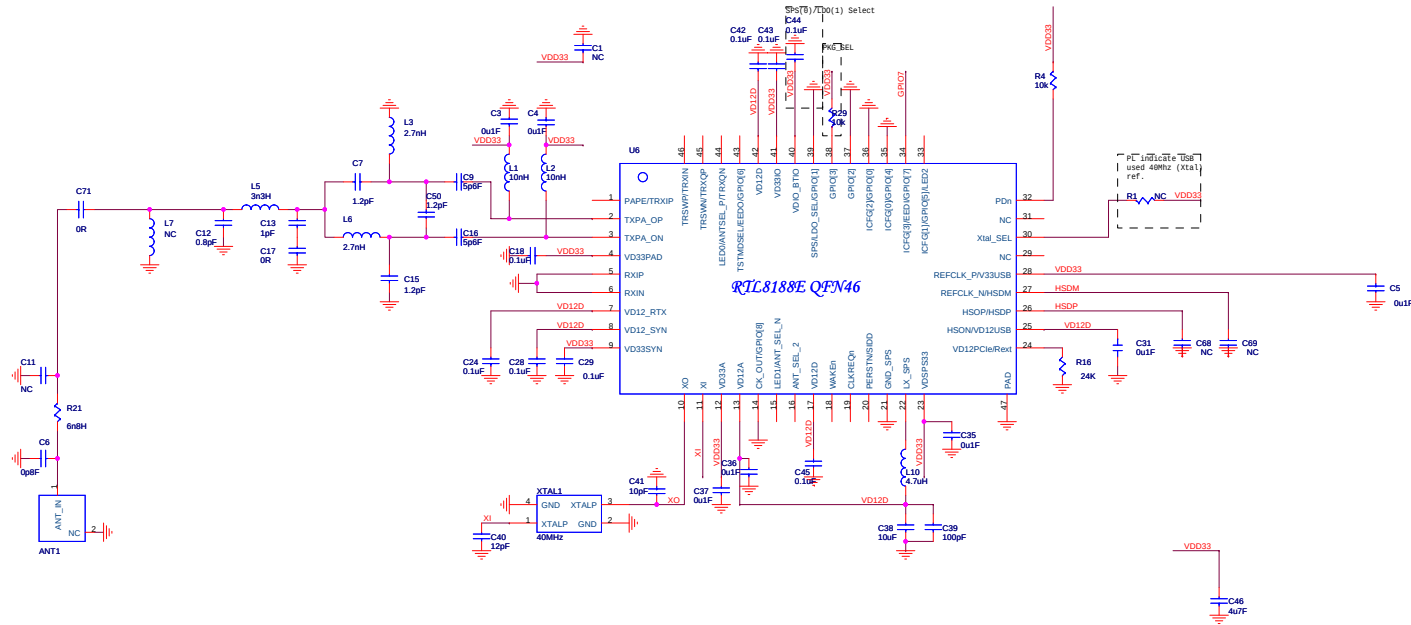
3D G-Sensor



Note:
The first pin of G-sensor must be place on the lower left corner of PCB.



UD88E00-1V0	Initial	20120311
	delete R3, R30, R31, R32, R40	20120318
	add C35, C39	
UD88E00-1V1	update ANV matching value L5, C13	20120326



Title		
UD88E00-1V0		
Size		
Document Number		
CustomDoc		
Date		
Thursday, April 05, 2012		
Sheet		
1 of 1		
Rev		
1V0		