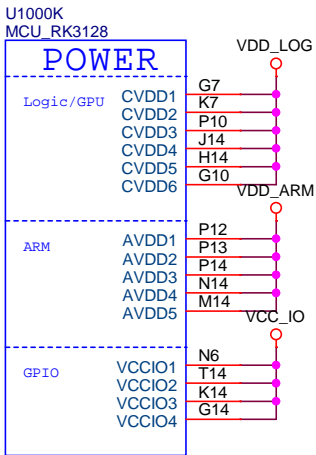
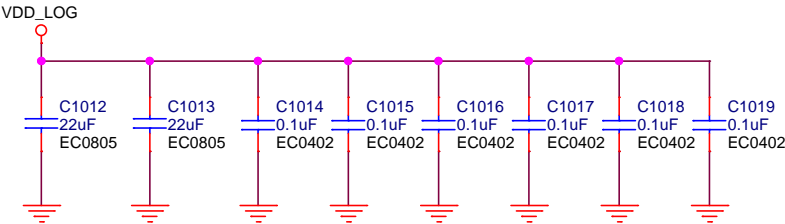
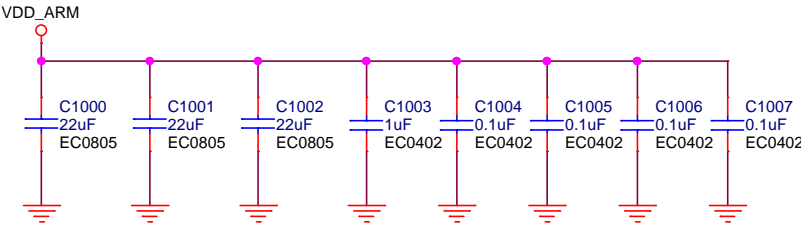


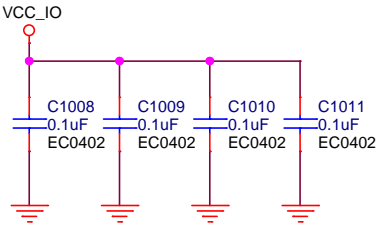
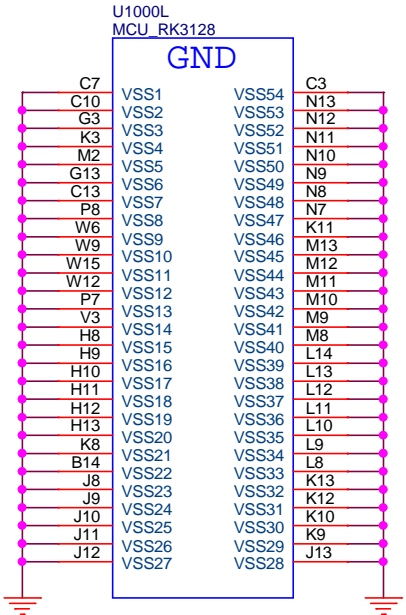
RK3128-K



Note:
Place these filter capacitors under CPU.



RK3128-L



SHENZHEN ELECTRON TECHNOLOGY CO.,LTD.

Title
RK3128 POWER

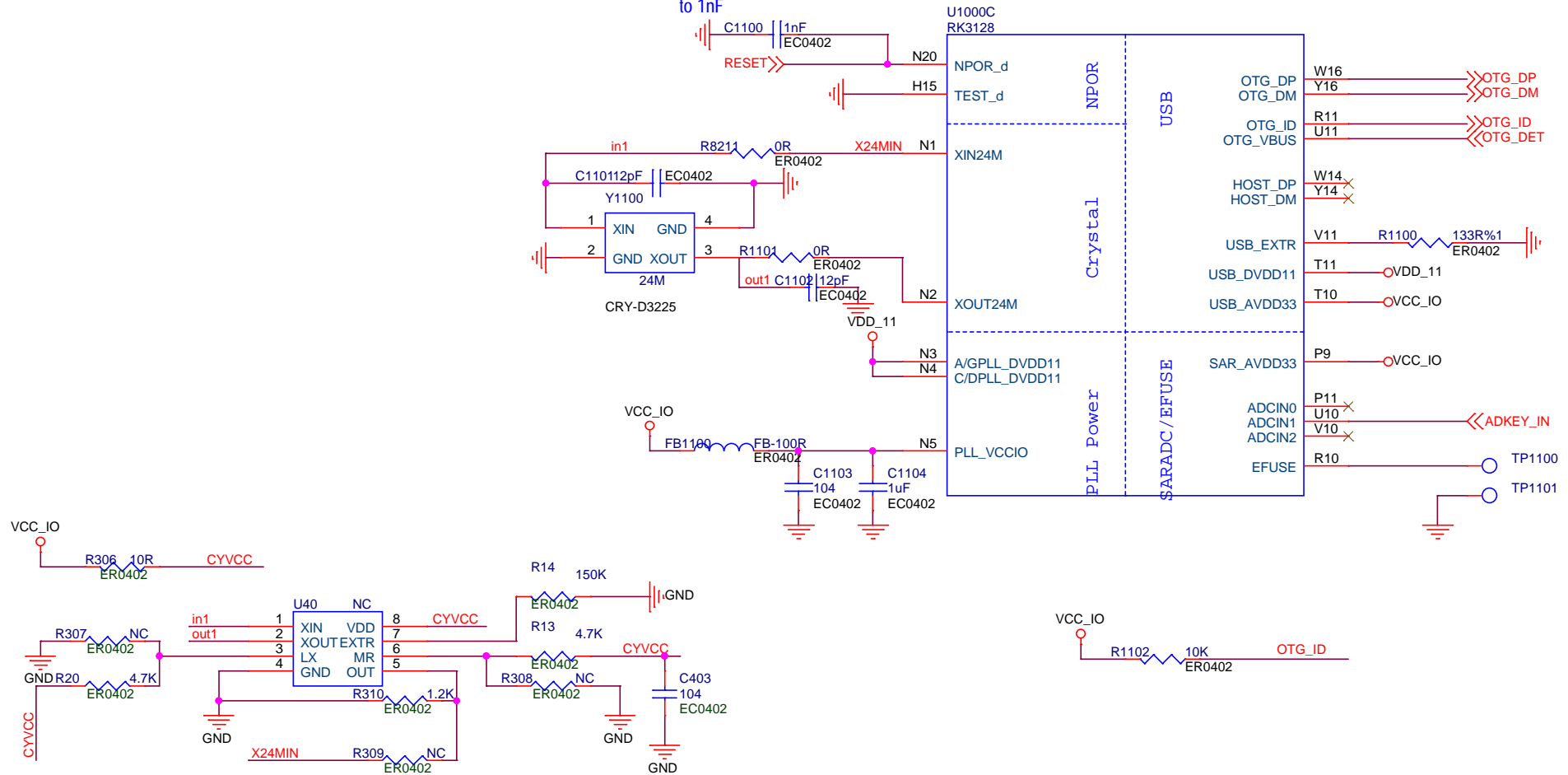
Size Document Number
A1

Rev
A3

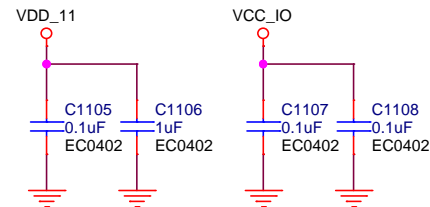
Date: Thursday, May 18, 2017 Sheet 2 of 18

RK3128-C

External capacitance @RESET change to 1nF



Note: All the capacitors should be placed close to the power pins of RK3128.



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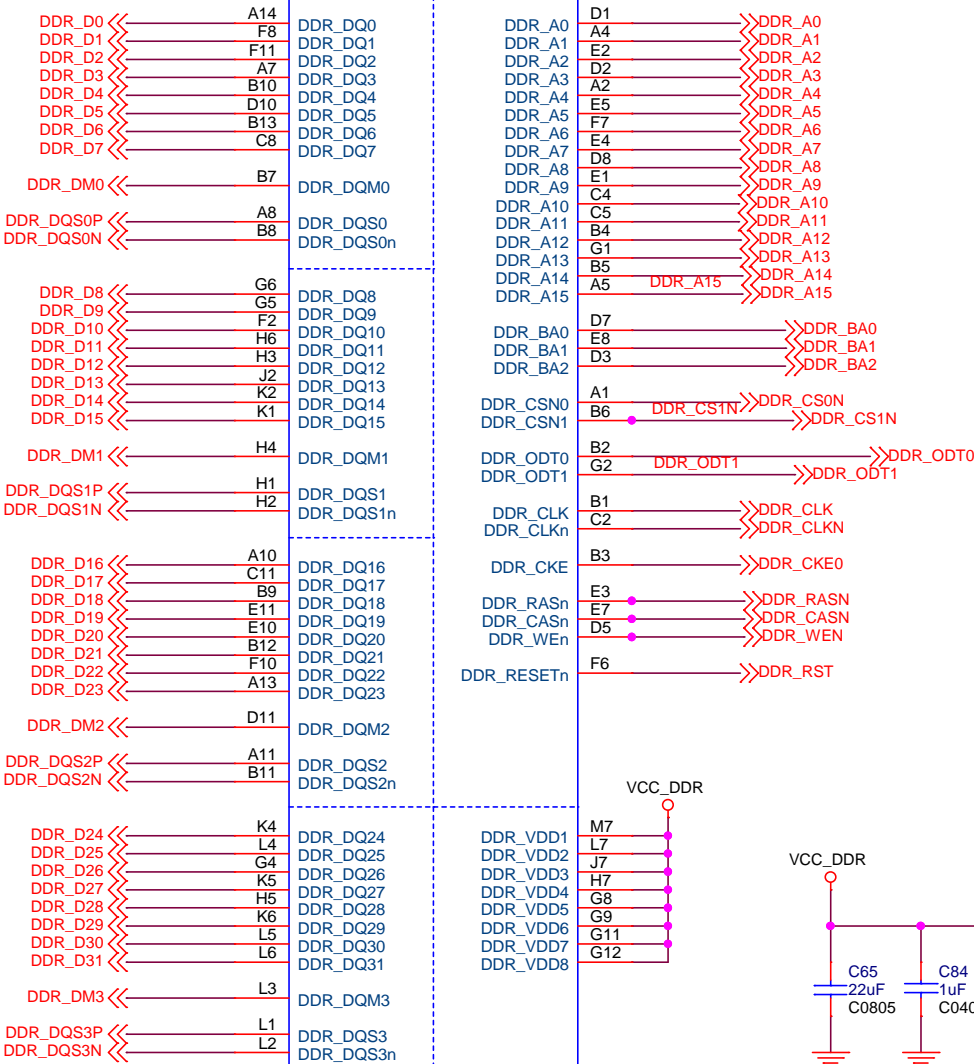
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MISC&USB

Size	Document Number	Rev
	A1	A3

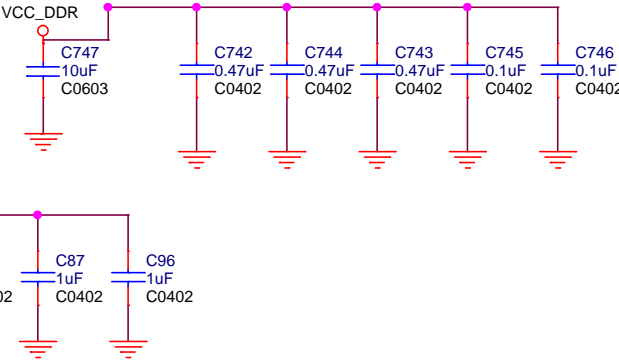
Date:	Thursday, May 18, 2017	Sheet	3	of	18
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U1000J

Memory



RK3128



SHENZHEN ELECTRON TECHNOLOGY CO.,LTD.

Title
RK3128 DDR

Size Document Number
A1

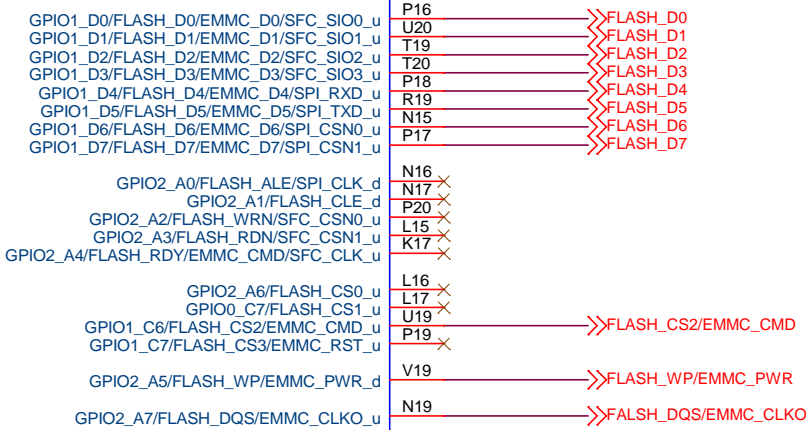
Rev
A3

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RK3128-E

U1000E
RK3128

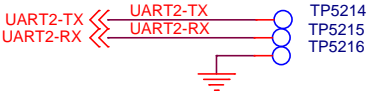
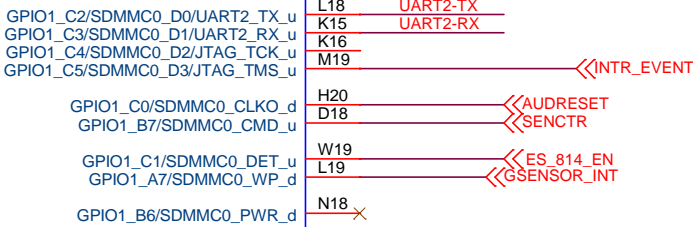
Nand Flash/eMMC/SFC/SPI



RK3128-D

U1000D
RK3128

SDMMC0



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Title
RK3128 FLASH&SD

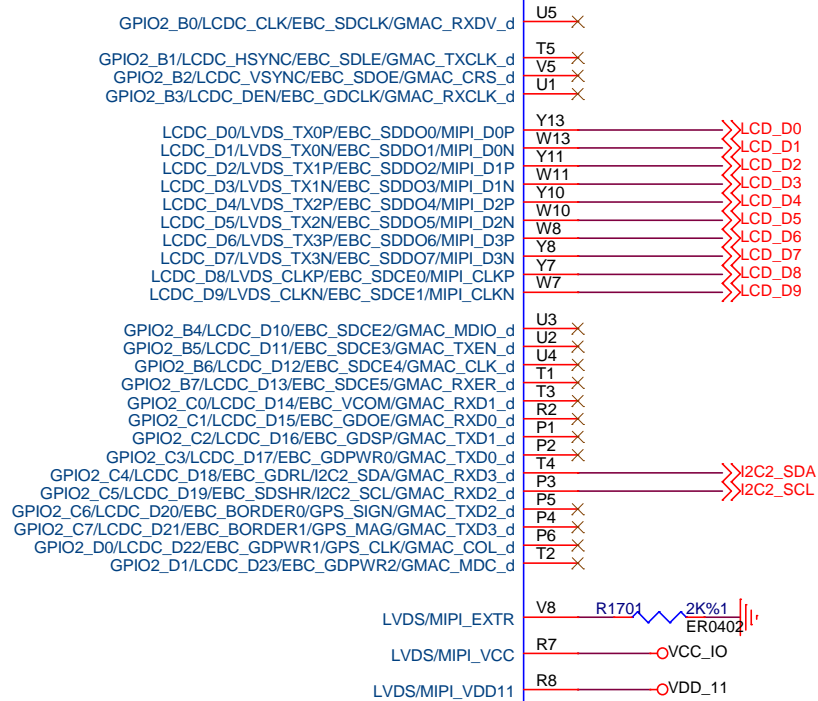
Size Document Number Rev
A1 A3

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RK3128-A

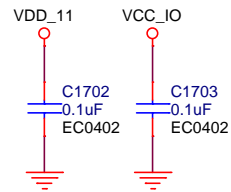
U1000A
RK3128

LCDC/LVDS/MIPI/GMAC/EMAC



Correspondence between LCDC DATA and RGB

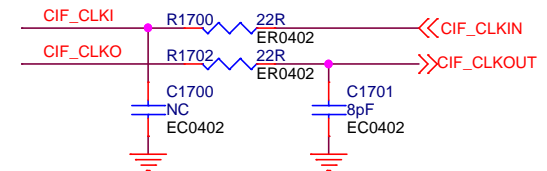
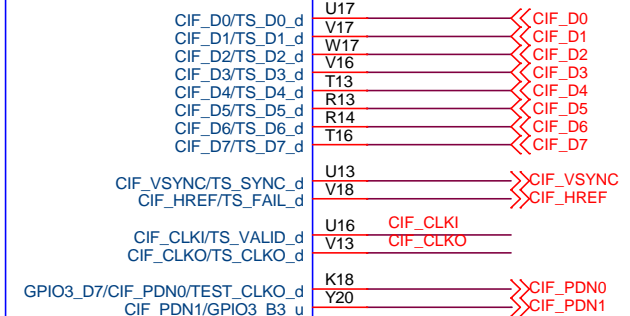
LCDC_D0	B2	LCDC_D9	G5
LCDC_D1	B3	LCDC_D10	G6
LCDC_D2	B4	LCDC_D11	G7
LCDC_D3	B5	LCDC_D12	R2
LCDC_D4	B6	LCDC_D13	R3
LCDC_D5	B7	LCDC_D14	R4
LCDC_D6	G2	LCDC_D15	R5
LCDC_D7	G3	LCDC_D16	R6
LCDC_D8	G4	LCDC_D17	R7



RK3128-B

U1000B
RK3128

CIF/TS



Note: 四器件根据测试结果，可选择否NC。

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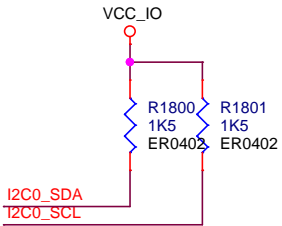
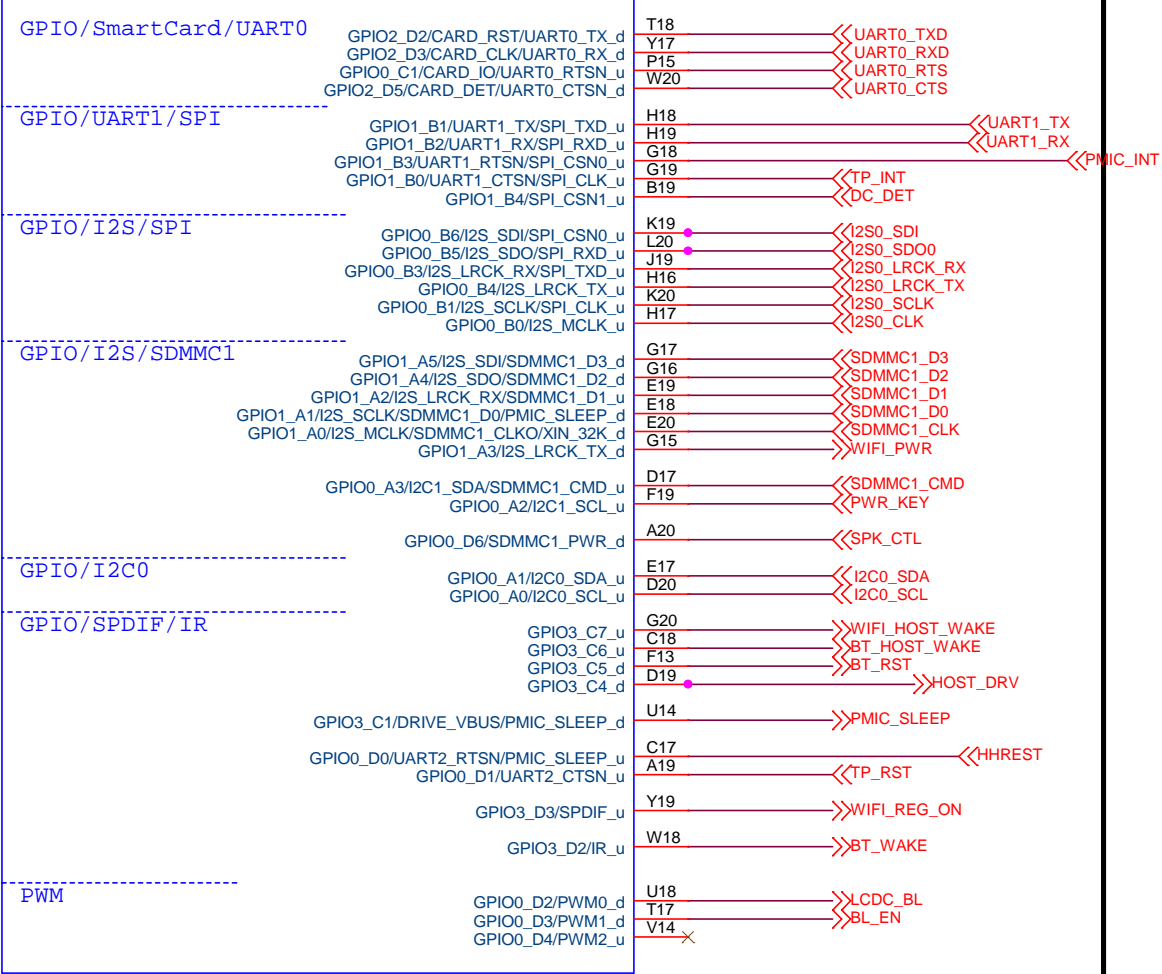
Title
RK3128 DISPLAY

Size	Document Number	Rev
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RK3128-I

U1000I
RK3128



SHENZHEN ELECTRON TECHNOLOGY CO.,LTD.

Title
RK3128 GPIO

Size Document Number
A1

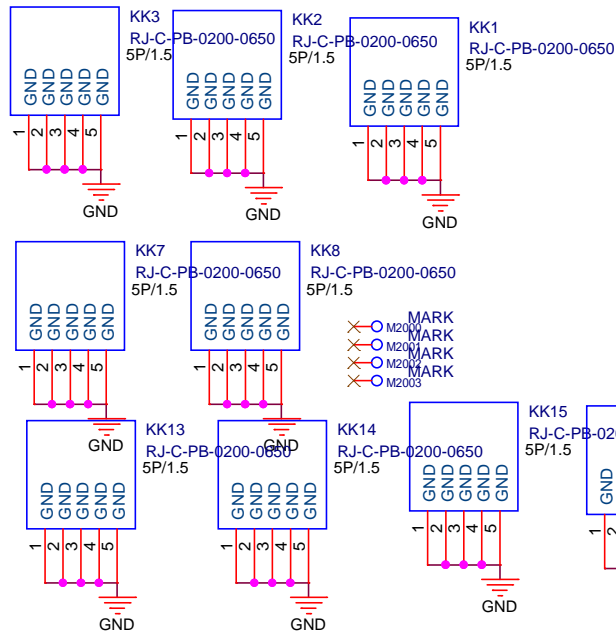
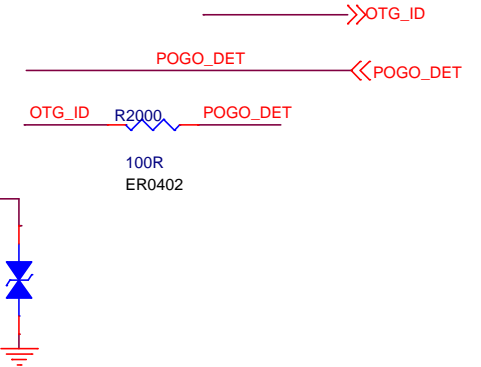
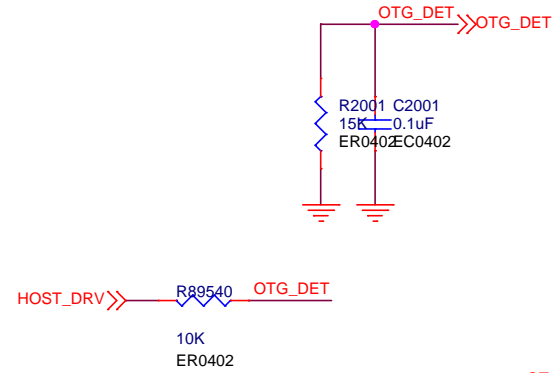
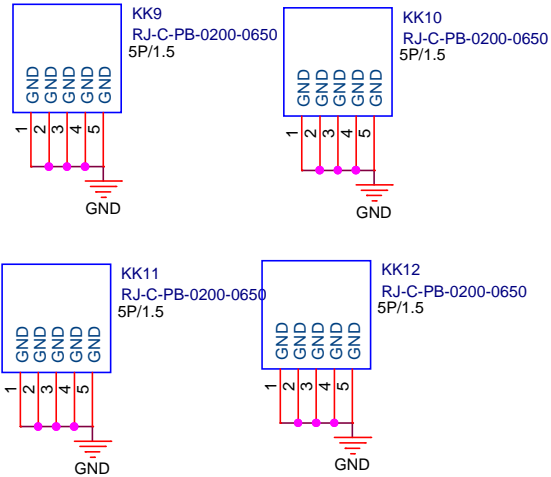
Rev
A3

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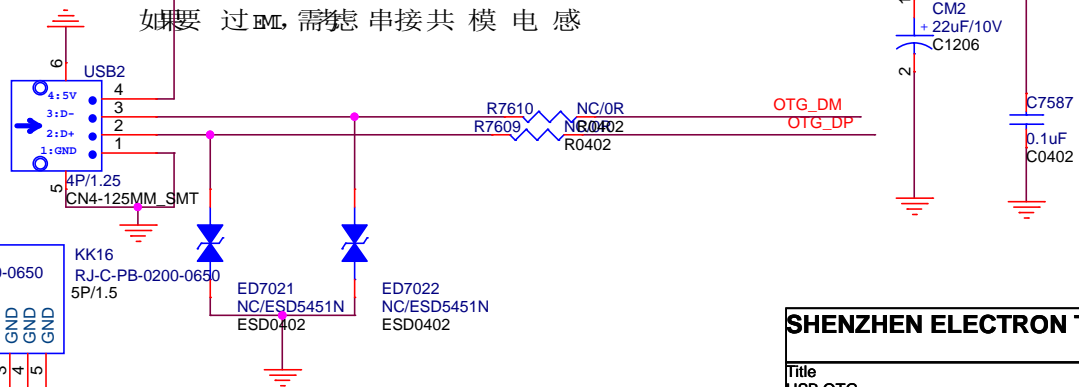
USB OTG CONNECTOR

USB_DET

OTG_DM
OTG_DP



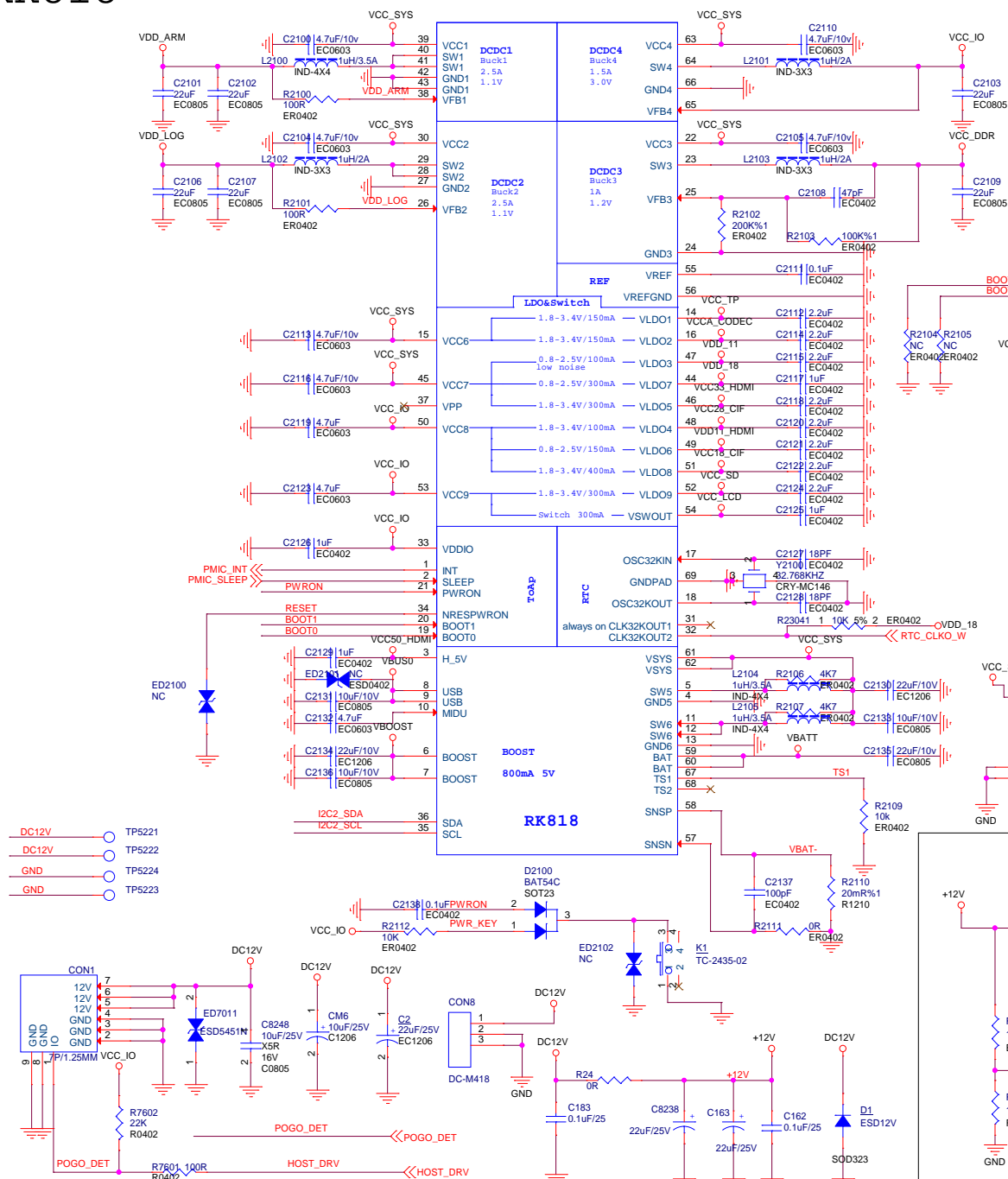
如果要过EMC, 需串接共模电感



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Title USB OTG		
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RK818



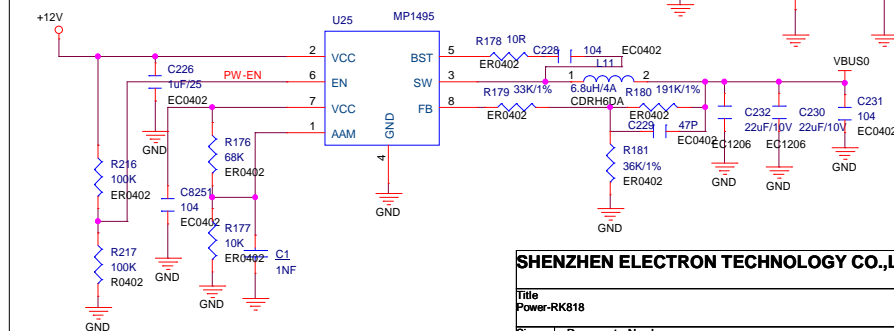
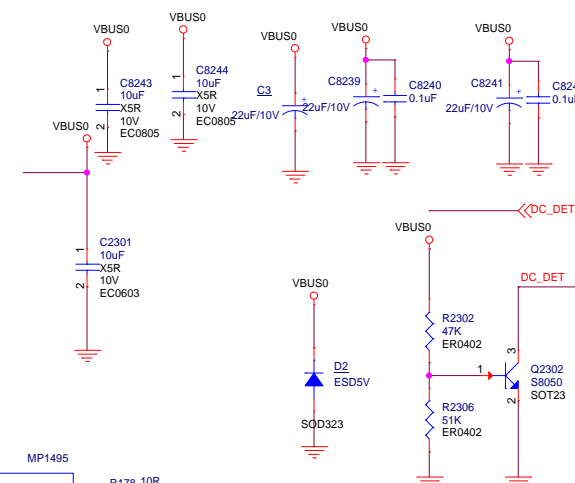
PCB POWER WIRE WIDTH INDICATE



above 80 miles
above 50 miles
above 30 miles
above 12 miles
Under needs

PowerName	PMU Channel	Time (ms)	default ON/OFF	default voltage	sleep ON/OFF
VDD_ARM	DCDC1	soft1:3	ON	1.1V	ON
VDD_LDO	DCDC2	soft1:3	ON	1.1V	ON
VCC1_VDD	DCDC1	soft1:1	ON	1.0V	ON
VCC_DDR	DCDC3	soft1:5	ON	DDR3 1.5V DDR3L 1.35V	ON
VCCA_TP	VLDO1	X	OFF	LP800 1.2V	OFF
VCCA_CDC0CB	VLDO2	X	OFF	3.0V	OFF
VDD_11	VLDO3	soft1:1	ON	2.1V	ON
VCC28_CIF	VLDO4	soft1:2	ON	1.5V	OFF
VCC29_MUFG	VLDO5	soft1:1	ON	1.0V	ON
VDD_12	VLDO6	X	OFF	1.2V	OFF
VLDO7	soft1:2	ON	1.8V	OFF	OFF
VCC18_CIF	VLDO8	X	OFF	1.8V	OFF
VCC19_CIF	soft1:5	ON	1.8V	OFF	OFF
VCC_VDD	soft1:1	ON	3.0V	OFF	OFF

Only the USB Port
VCC50_USB cnnected to the VCC_RK819INOUT



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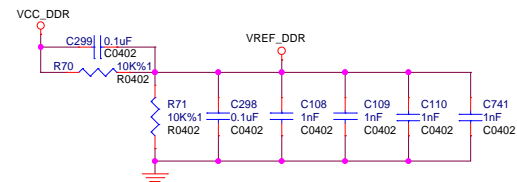
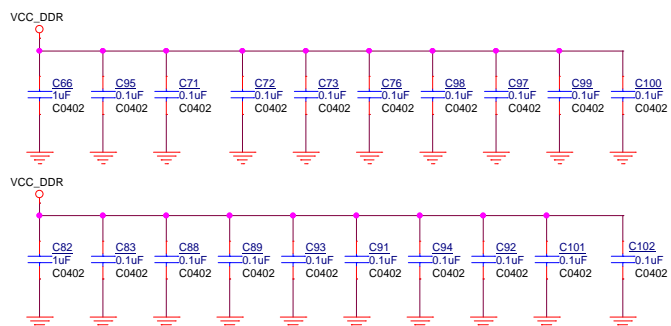
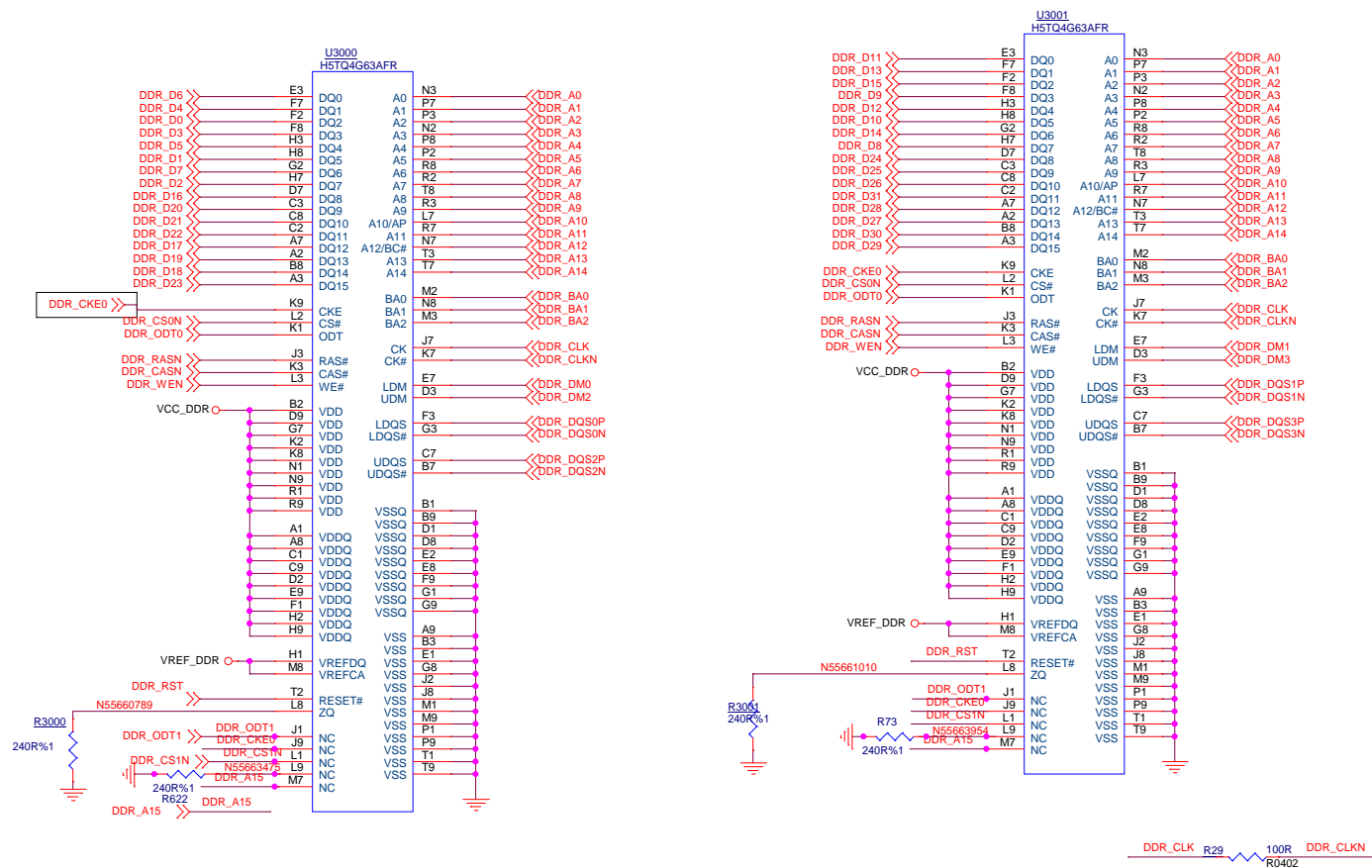
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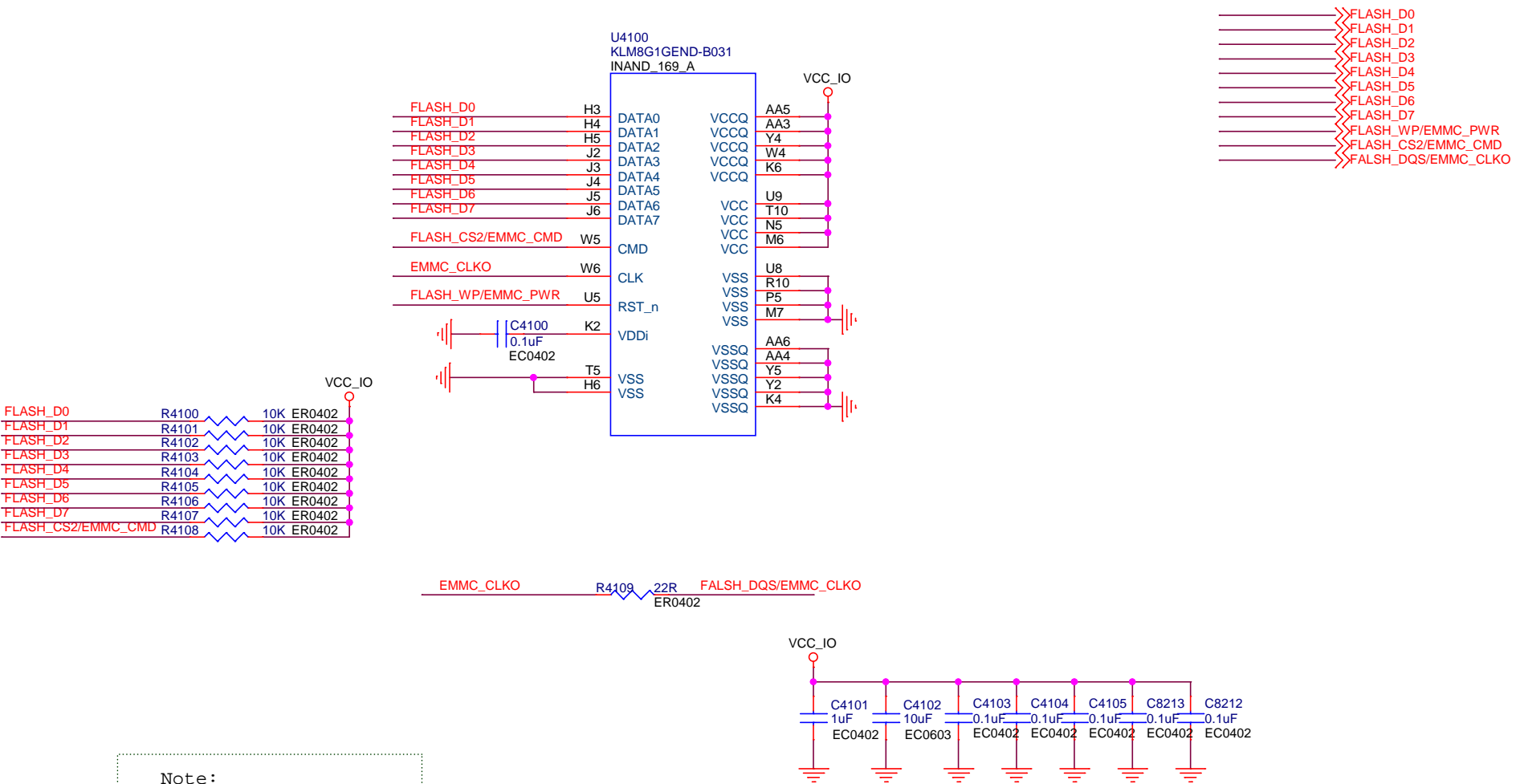
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Re	
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eMMC FLASH



Note:
NC or reserve a PAD.



SHENZHEN ELECTRON TECHNOLOGY CO.,LTD.

Title
Memory-eMMC Flash(option)

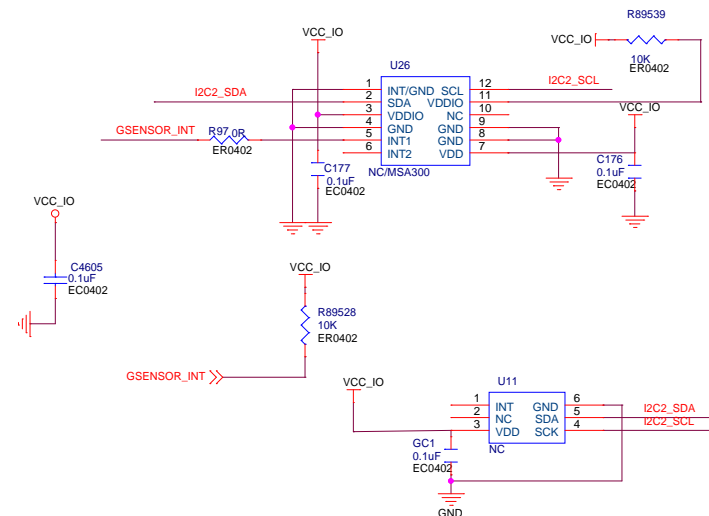
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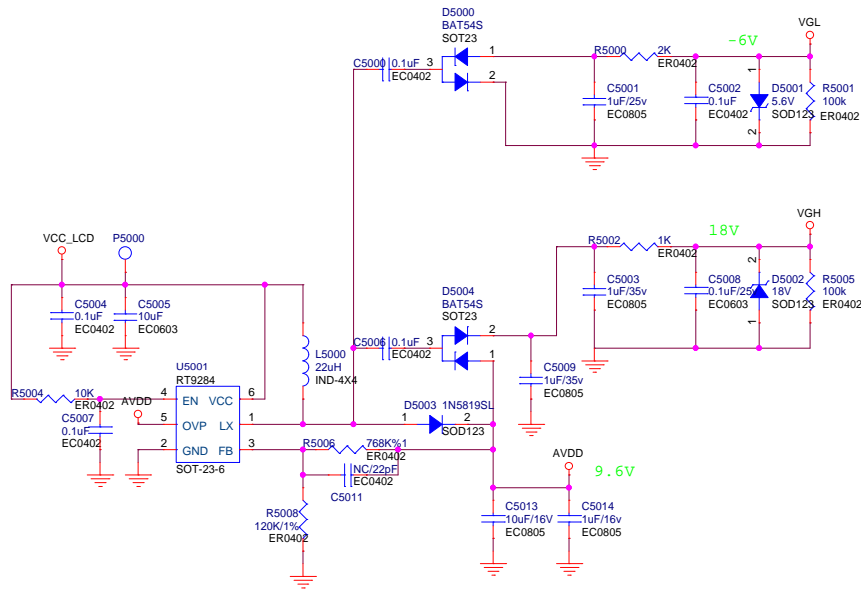
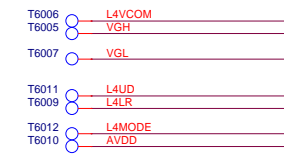
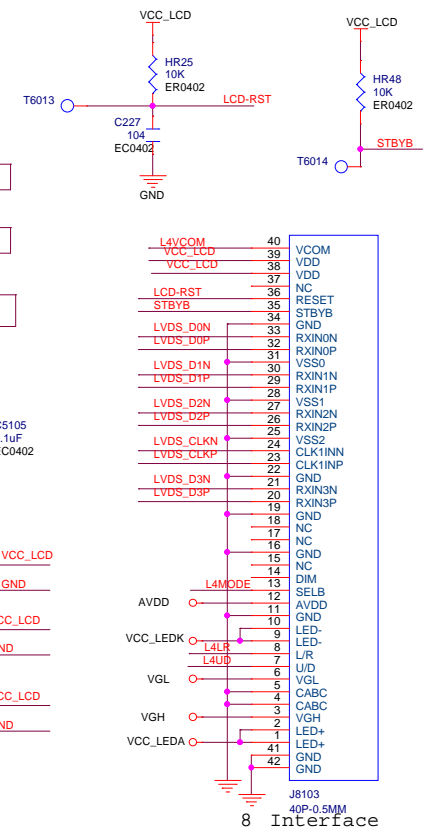
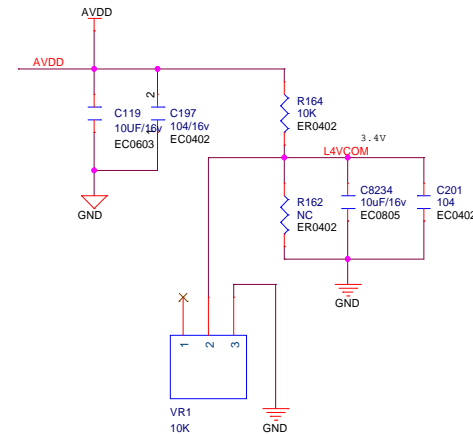
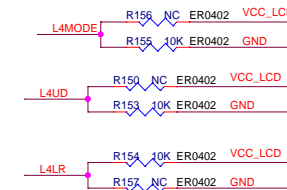
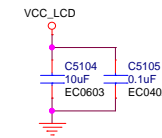
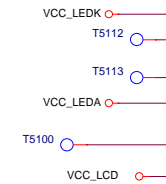
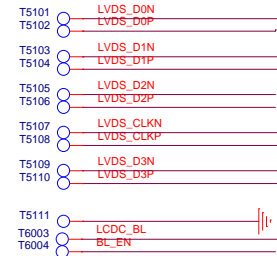
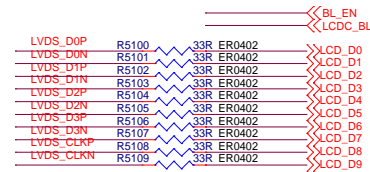
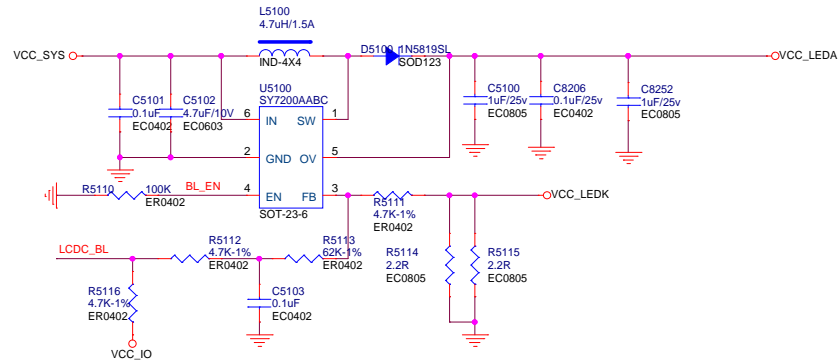
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When the system power on, the Adkey_in level is 0V, RK2928 enter into loader mode.



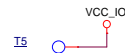
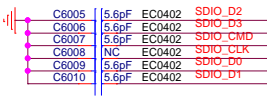
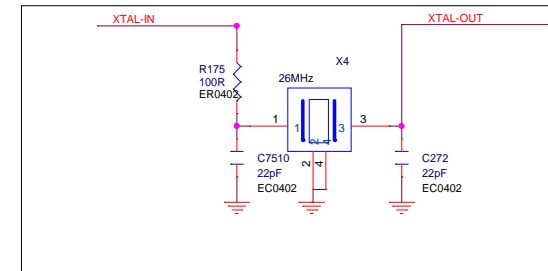
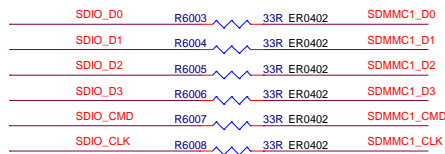
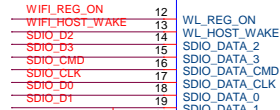
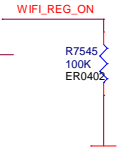
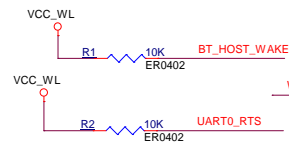
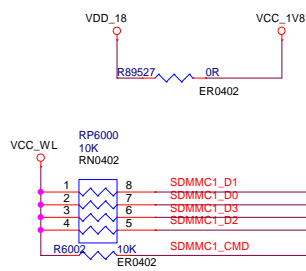
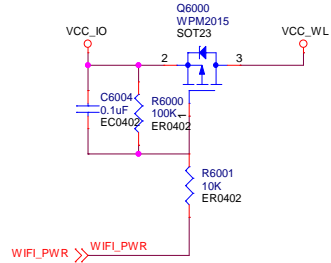
LVDS Panel



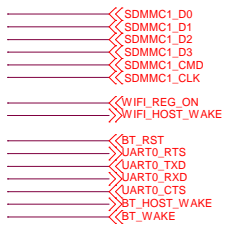
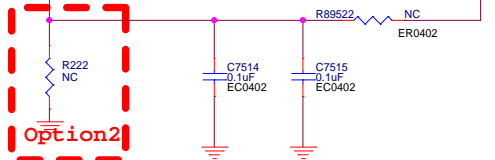
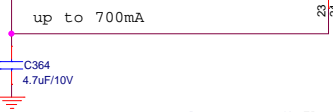
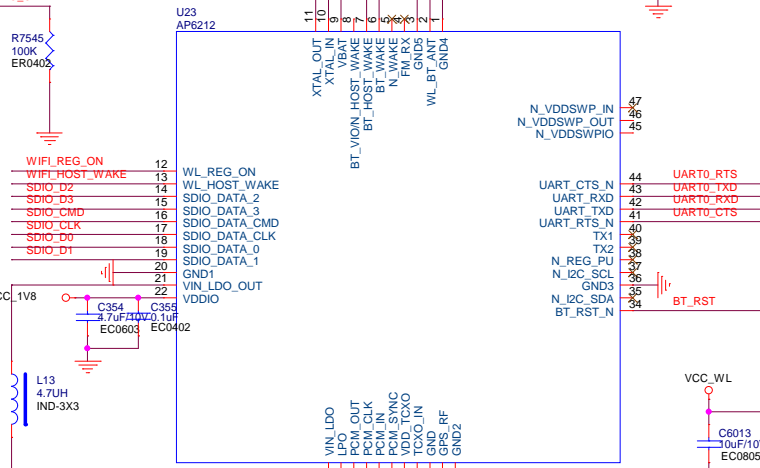
WIFI/WIFI

Note:
F23BDSM23-W2 VCC_WL=3.2~3.6V
F23BDSM25-W1 VCC_WL=3.5~5.0V

Note: VBAT 电压范围 3.2V~3.6V ,
电流至少 500mA

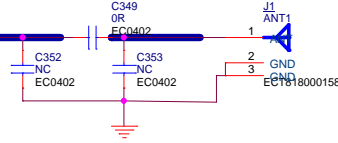


Option1



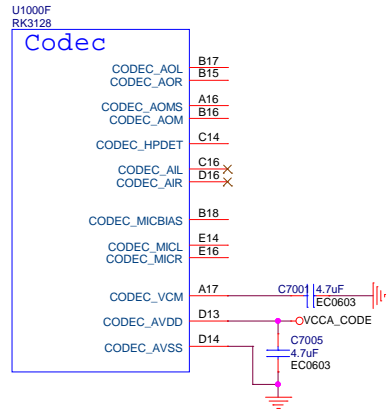
Note: VBAT 电压范围 3.0V~4.8V ,
电流至少 400mA

50 Ohm RF trace

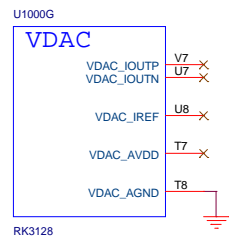
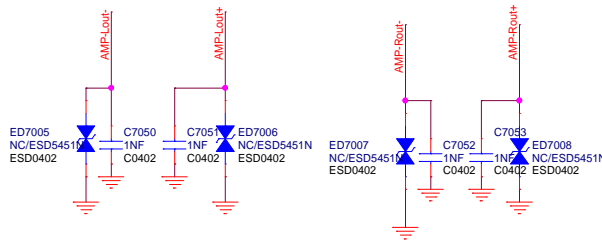


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Title RK3128_WIFI			
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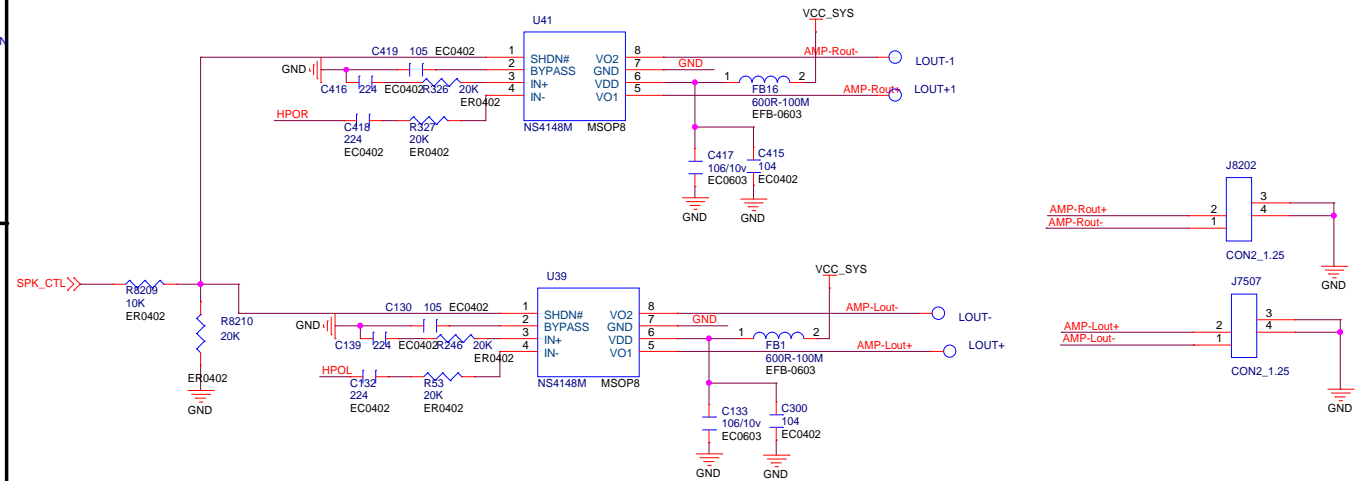
RK3128-F



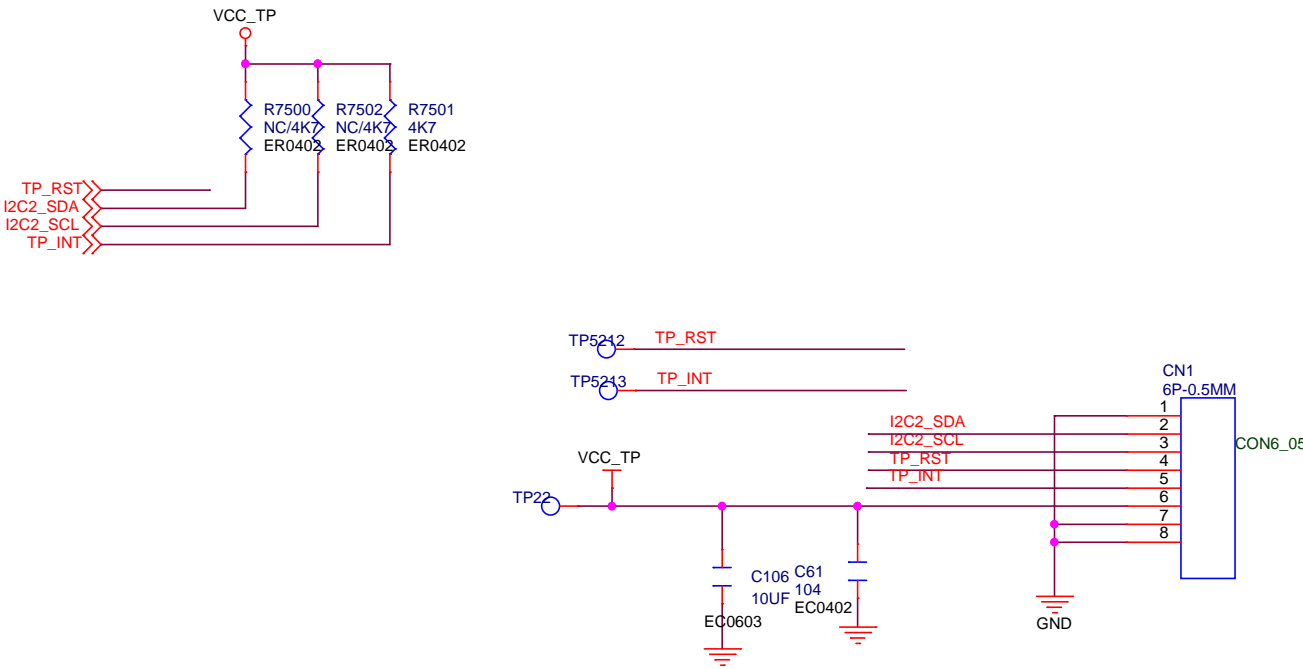
ESD



SPEAKER DRIVER



TOUCH CONNECTOR



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Title TP		
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