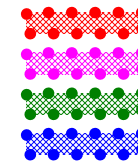


CONTENT INDEXING

- 01. INDEX
- 02.Change List
- 03.Block Diagram
- 05.Power Tree-RK816-3
- 10.PX3-SE Power
- 11.PX3-SE MISC&USB
- 12.PX3-SE DDR Controler
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- 18.PX3-SE GPIO
- 19.PX3_SE_CIF
- 20.Power-RK816-3
- 21.POWER_IN
- 30.RAM-DDR3 2x16bit
- 40.Memory-Nand Flash(OPTION)
- 41.Memory-eMMC Flash
- 42.Memory-SPI_FLASH(OPTION)
- 45.CVBS_IN TP2825(OPTION)
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- 60.WIFI/BT MODULE
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- 70.PX3 CODEC/CVBS OUT/HDMI
- 71.EXTERNAL CODEC
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- 73.AUDIO PA
- 80.SENSOR
- 81.TF card
- 82.HDMI
- 83.I2C TO UART
- 85.USB HUB
- 88.KEYPAD
- 99.MARK

PCB POWER WIRE WIDTH INDICATE



No indicate


above 80 miles

above 50 miles

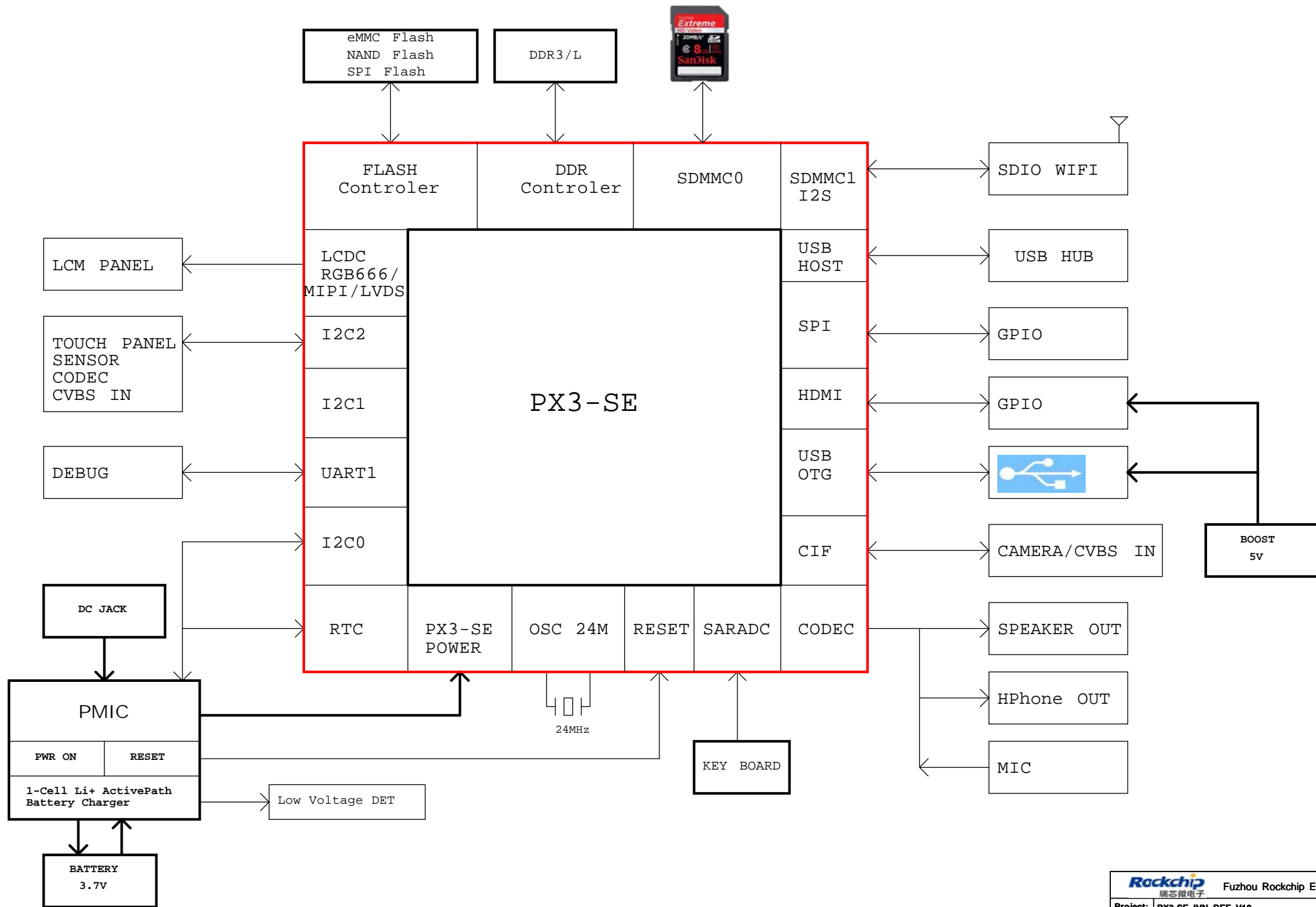
above 30 miles

above 16 miles

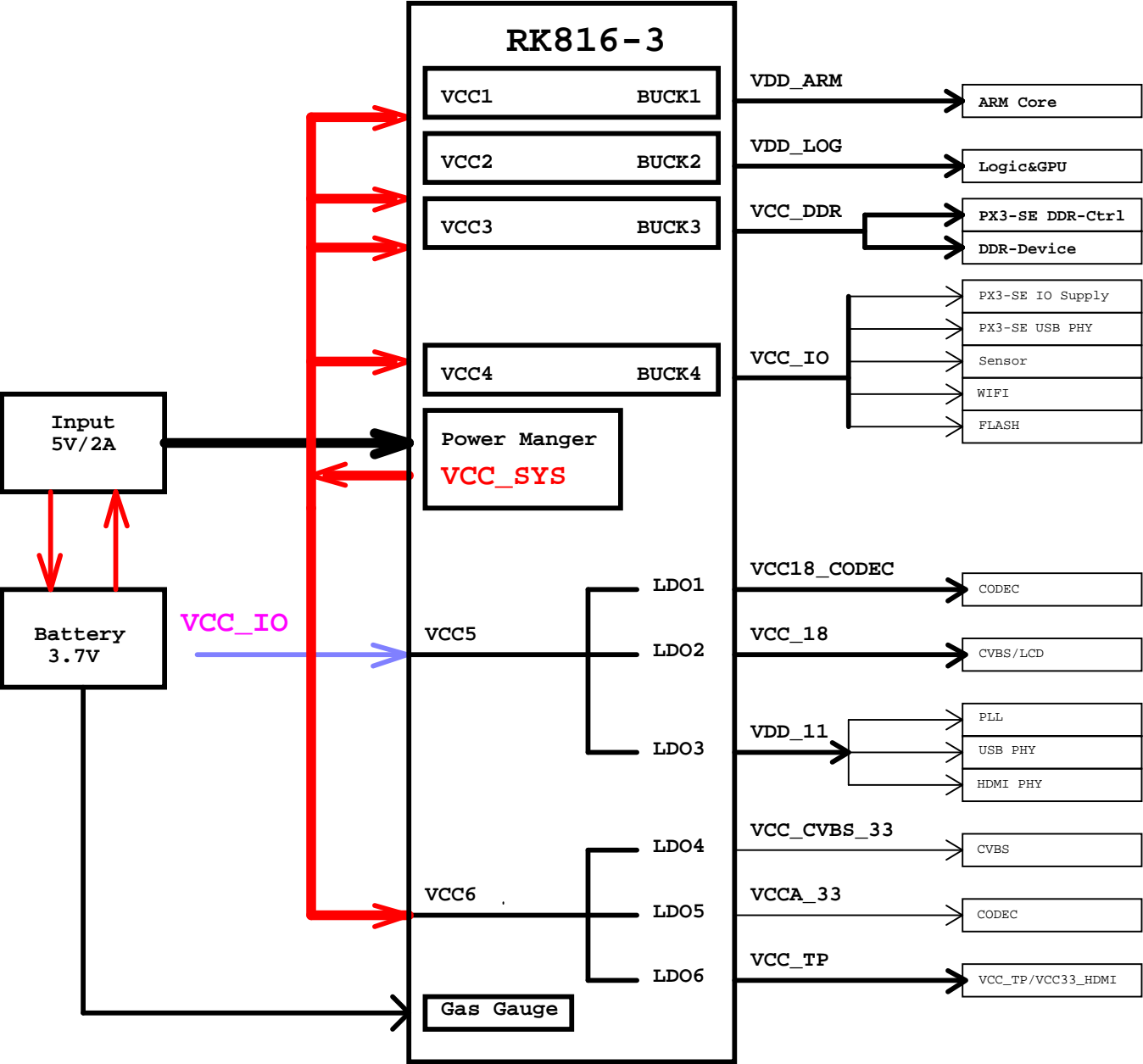
Under needs

 瑞芯微电子		Fuzhou Rockchip Electronics	
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Version	Date	Author	Change Note	Note
V1.0	20170226	ZHM	First Edit	



POWER DIAGRAM



PMU Channel	TIMER (2mS)	Hefault ON/OFF	default voltage	PX3-SE
DCDC1	solt:2	ON	1.1V	VDD_ARM
DCDC2	solt:1	ON	1.1V	VDD_LOG
DCDC4	solt:1	ON	3.3V	VCC_IO/VCCIO_WL/VCC_SD FLASH/VCC_LCD
DCDC3	solt:3	ON	DDR3 1.5V DDR3L 1.35V LPDDR 1.245V	VCC_DDR
VLDO1	X	OFF		VCC18_CODEEC
VLDO2	solt:1	ON	1.8V	VCC_18
VLDO3	solt:1	ON	1.1V	VDD_11
VLDO4	X	OFF	3.3V	VCC_CVBS_33
VLDO5	solt:4	ON	3.3V	VCCA_33
VLDO6	solt:4	ON	3.3V	VCC_TP
RESET	58mS	ON	OD	RESET



Fuzhou Rockchip Electronics

Project:

PX3-SE_IVN_REF_V10

File:

Power Tree-RK816-3

Date:

Friday, June 29, 2018

Rev:

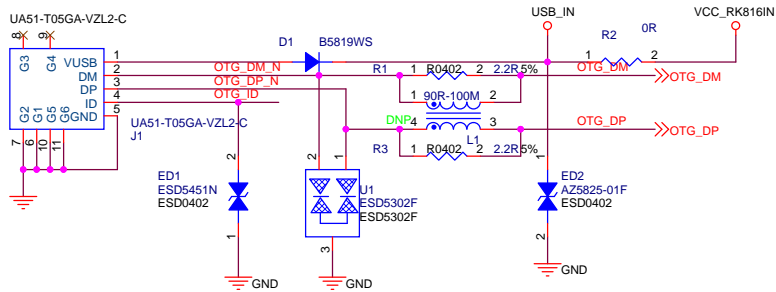
V1.0

Designed by:

ZHM

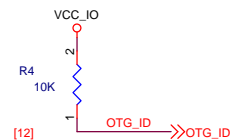
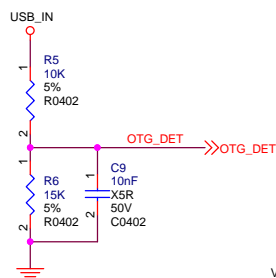
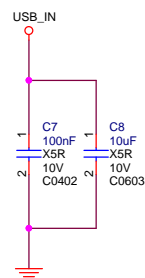
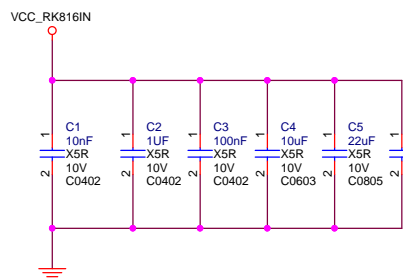
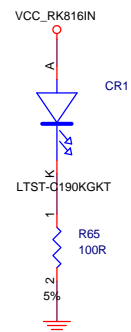
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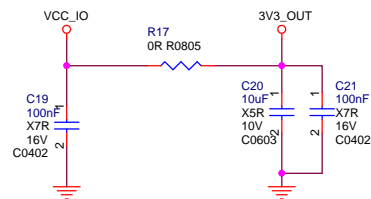
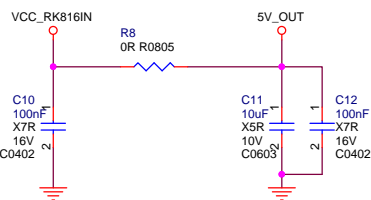
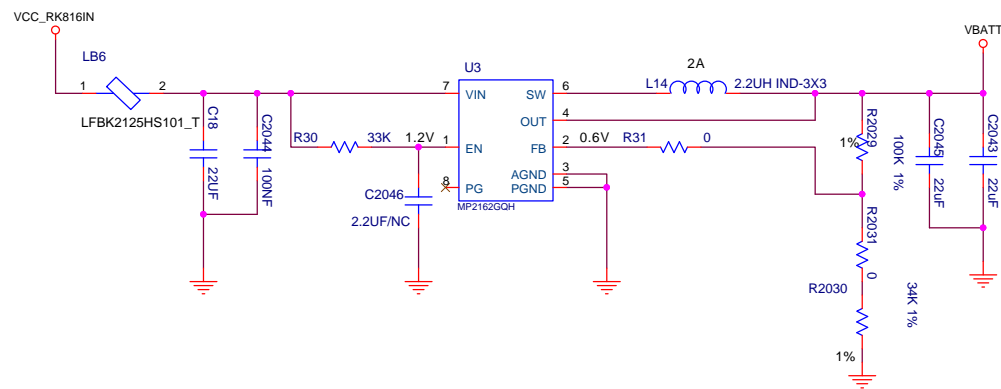


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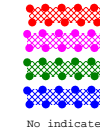


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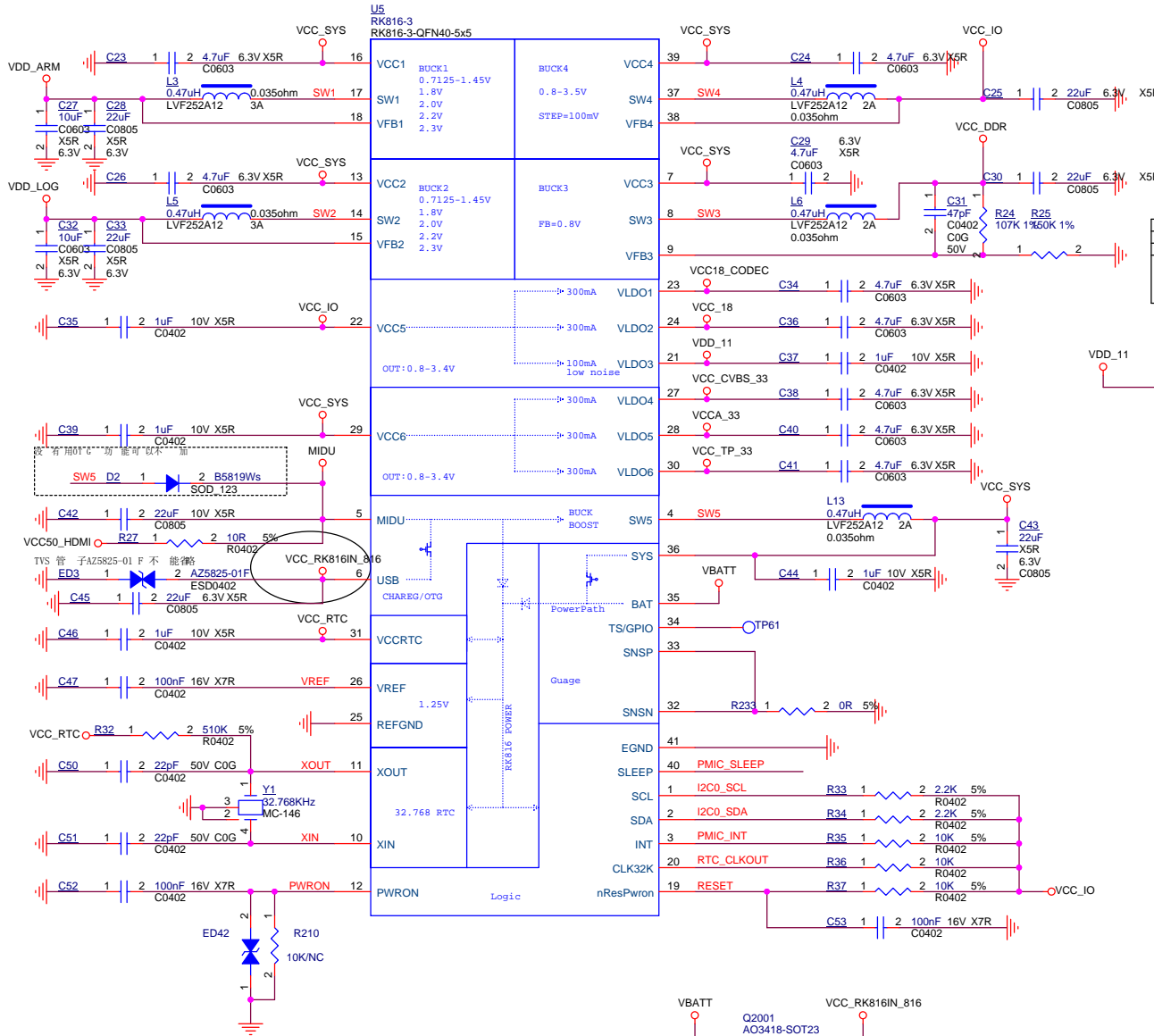


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A3	<Doc>	<RevCode>
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PCB POWER WIRE WIDTH INDICATE



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

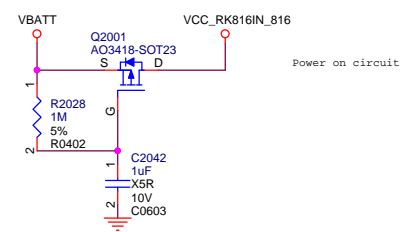
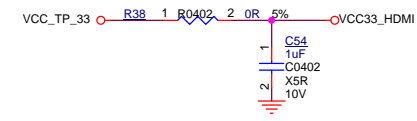


Default DDR3L

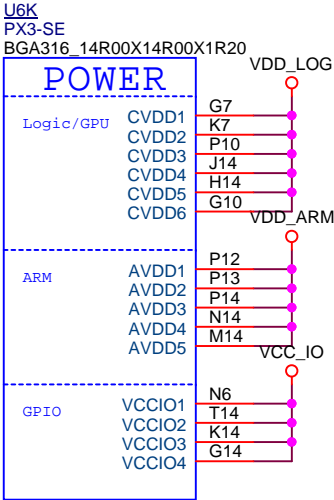
R2201	R2200	VCC_DDR	RAM
150K	137K	1.53V	DDR3
150K	107K	1.37V	DDR3L

PMU Channel	TIMER (2ms)	Default ON/OFF	default voltage	RK3126
DCDC1	solit*2	ON	1.1V	VDD_ARM
DCDC2	solit*1	ON	1.1V	VDD_LOG
DCDC4	solit*1	ON	3.3V	VCC10/VCC10_WL/VCC_SB FLASH/VCC_LC0
DCDC3	solit*3	ON	0.8V	DDR3 1.5V DDR3L 1.35V LPDDR 1.245V VCC_DDR
VLD01	X	OFF	1.8V	VCC18_CODECC
VLD02	solit*1	ON	1.8V	VCC18
VLD03	solit*1	ON	1.1V	VDD11/VDD11_HDMI
VLD04	X	OFF	3.3V	VCC_CVBS
VLD05	solit*4	ON	3.3V	VCCA_33
VLD06	solit*4	ON	3.3V	VCC_TP_33/VCC33_HDMI
RESET	58ms	ON	OD	RESET

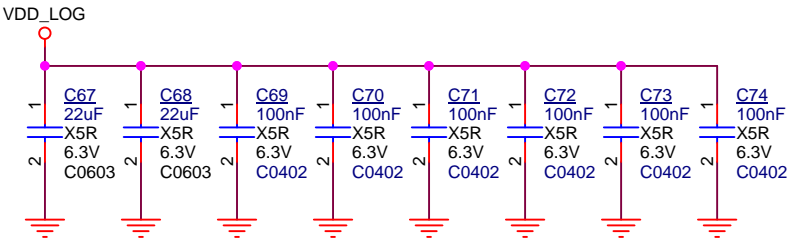
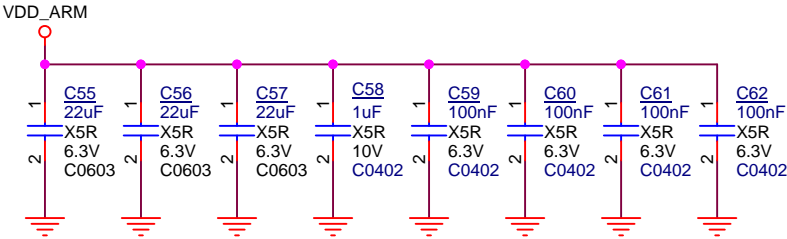
PMIC_INT >>> PMIC_INT [14]
I2C0_SDA >>> I2C0_SDA [14.23]
I2C0_SCL >>> I2C0_SCL [14.23]
RESET >>> RESET [12]
PMIC_SLEEP >>> PMIC_SLEEP [14]
RTC_CLKOUT >>> RTC_CLKOUT [18.20]



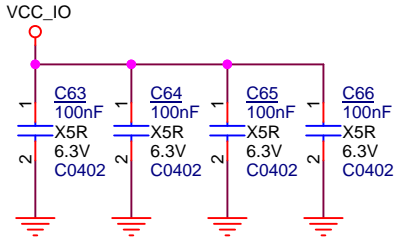
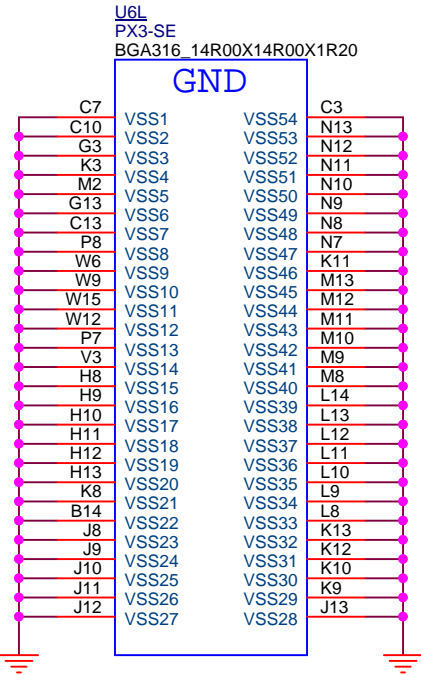
PX3-SE-K



Note:
Place these filter capacitors under CPU.



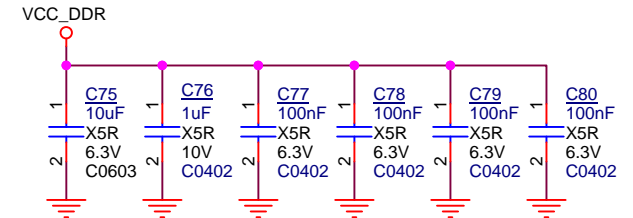
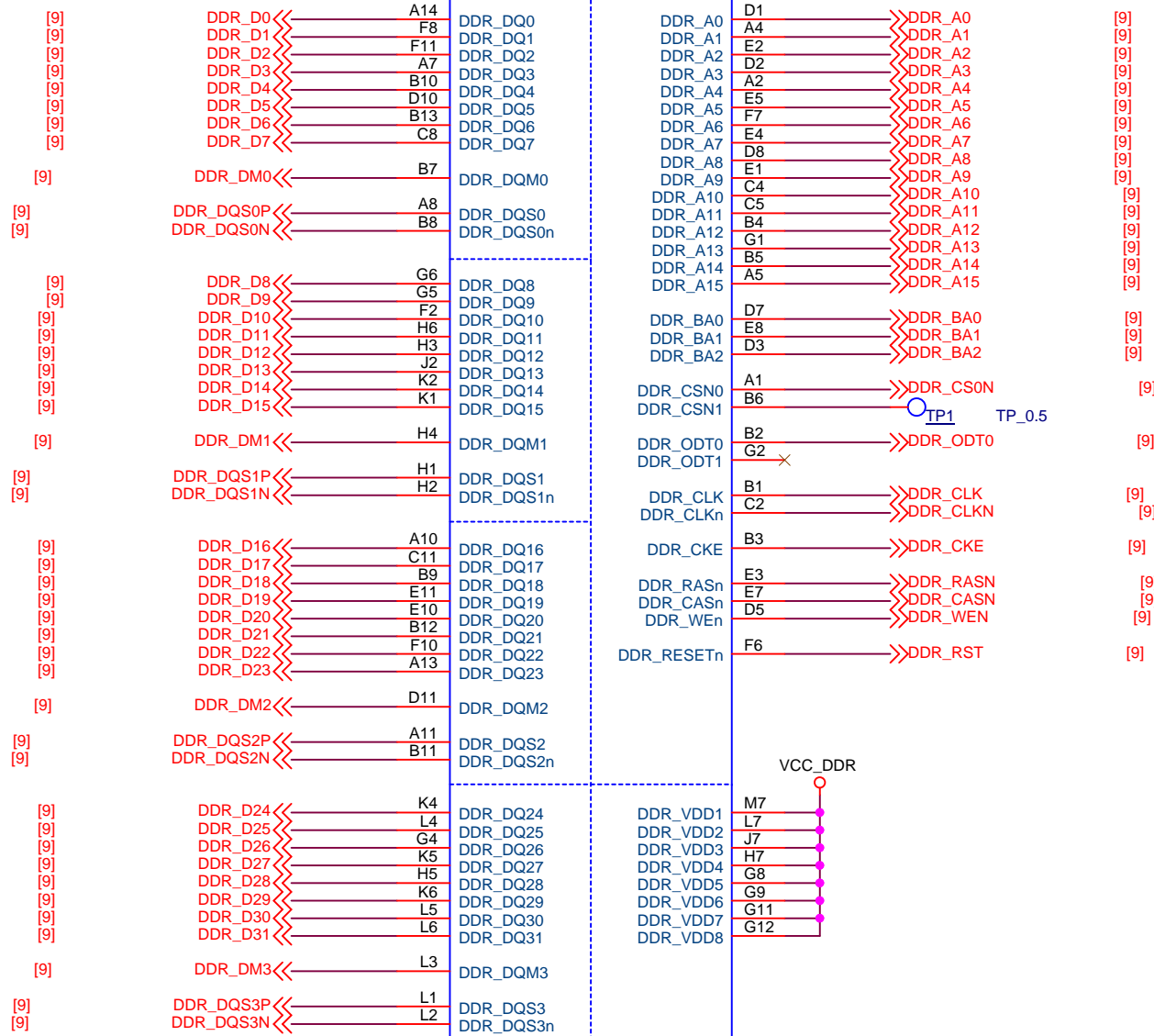
PX3-SE-L




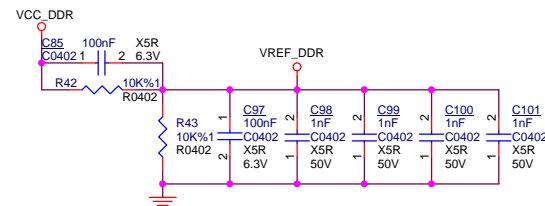
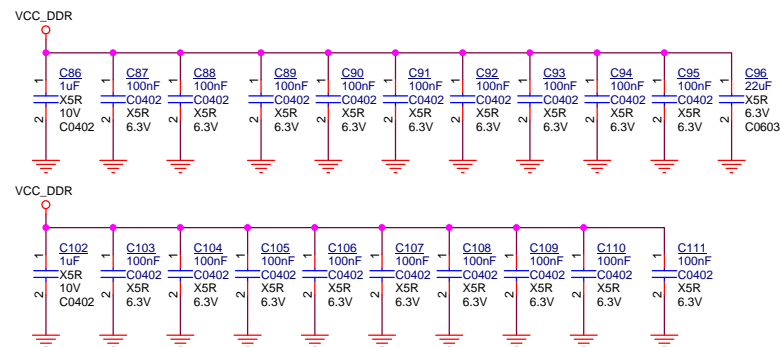
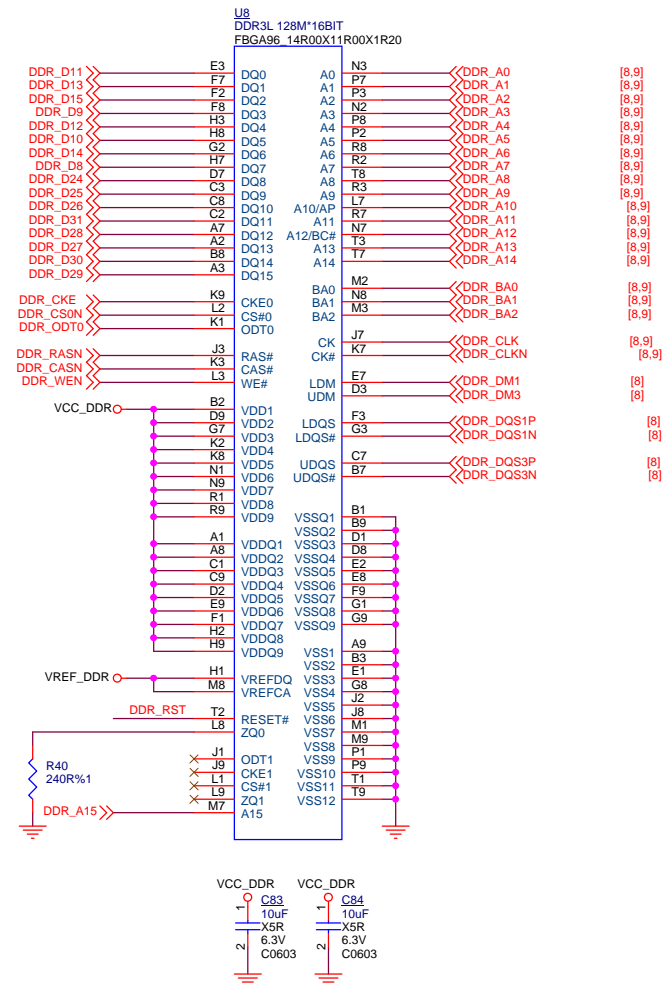
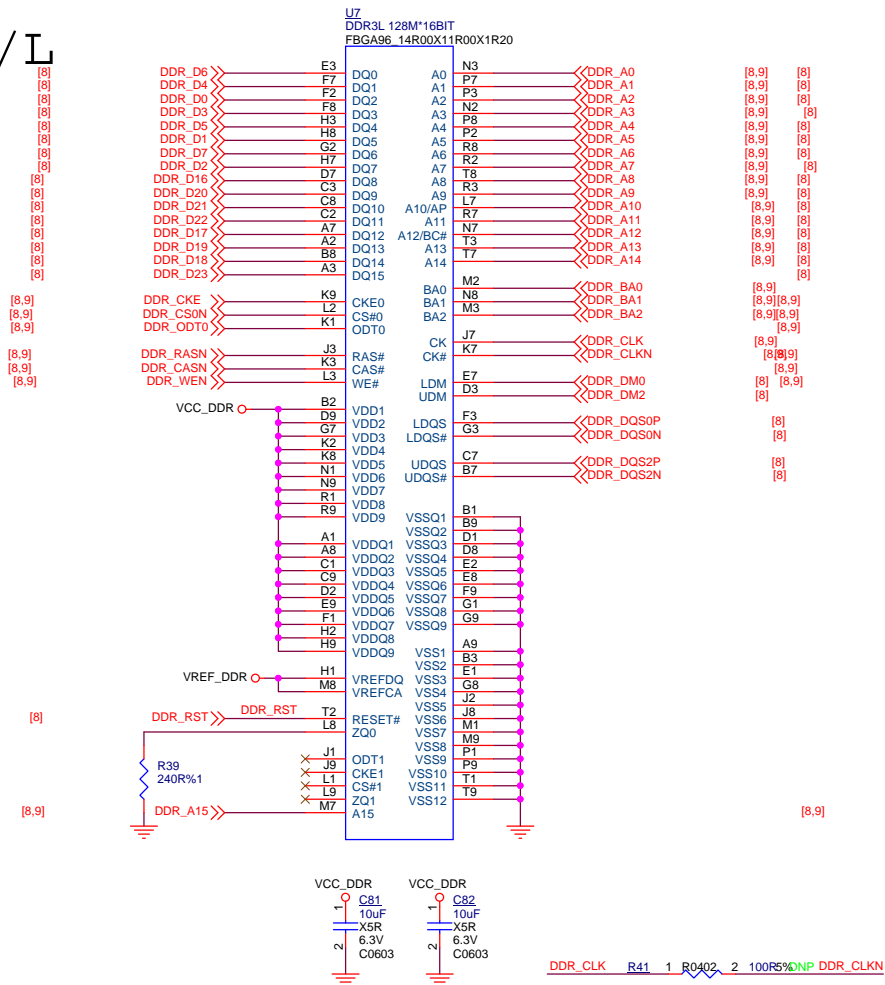
PX3-SE-J

U6J
PX3-SE
BGA316_14R00X14R00X1R20

Memory



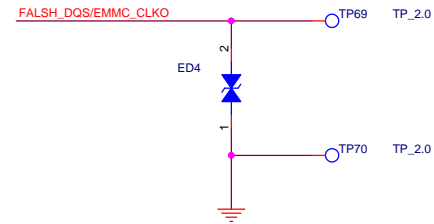
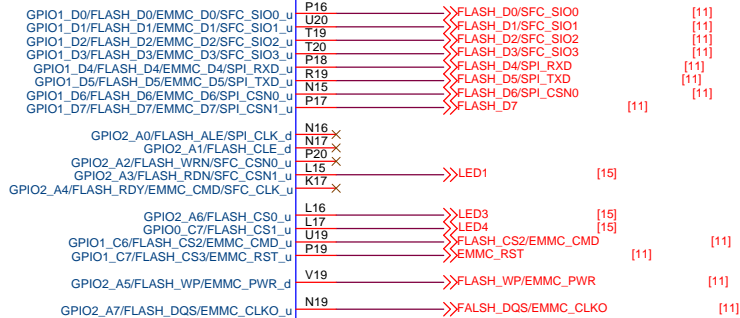
 瑞芯微电子		Fuzhou Rockchip Electronics	
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DDR3 / L (9)

PX3-SE-E

U6E
PX3-SE
BGA316_14R00X14R00X1R20

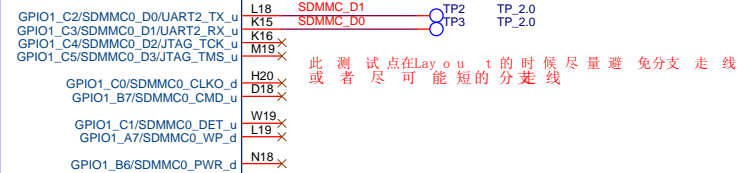
Nand Flash/eMMC/SFC/SPI



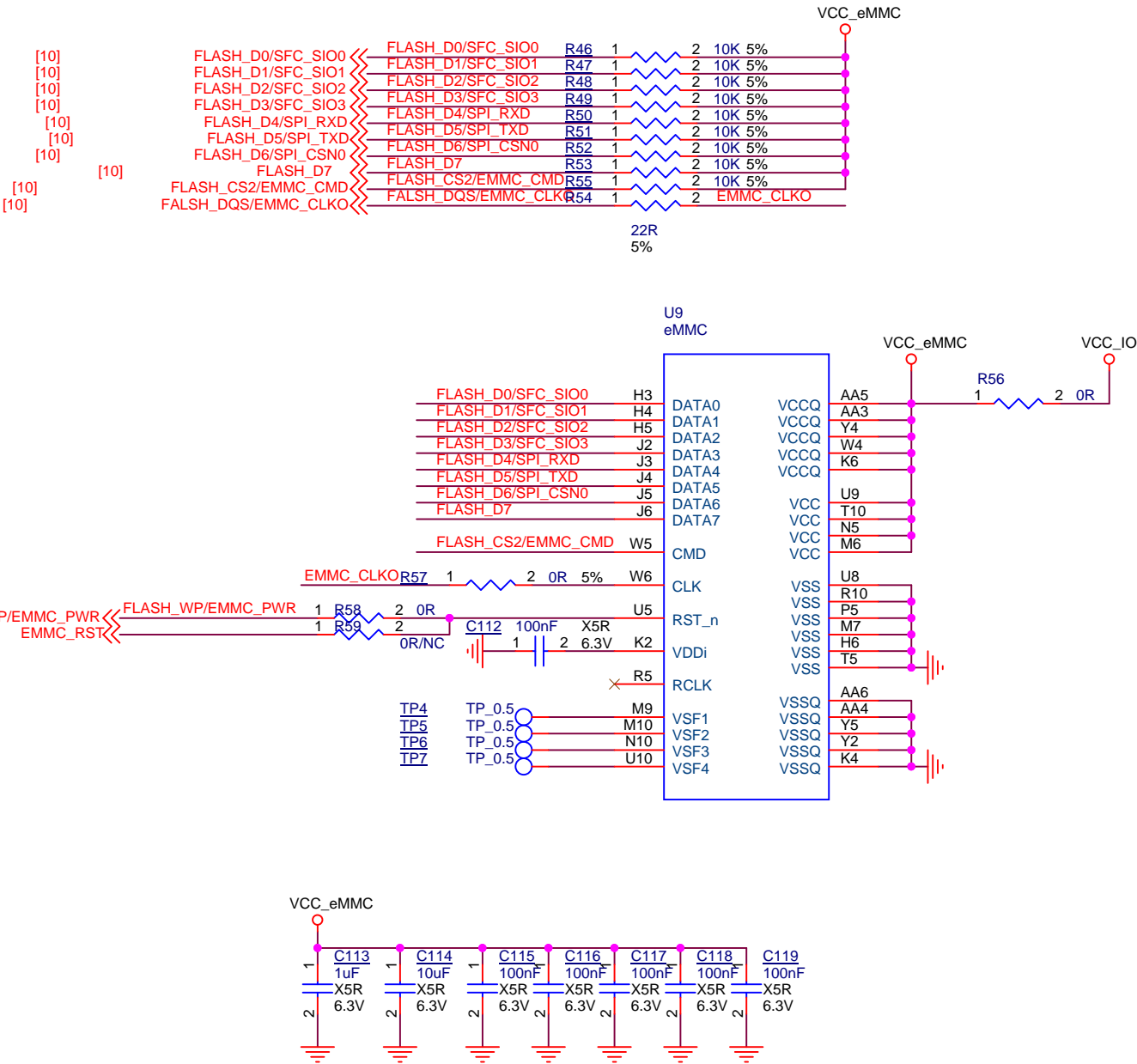
PX3-SE-D

U6D
PX3-SE

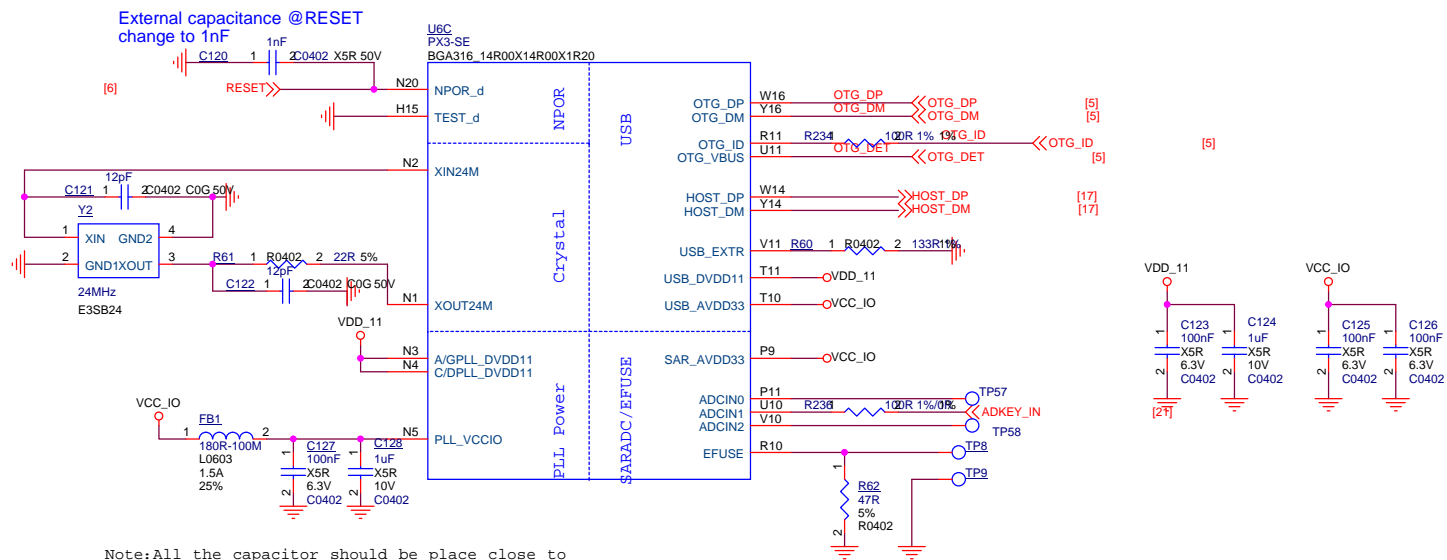
SDMMC0



eMMC FLASH



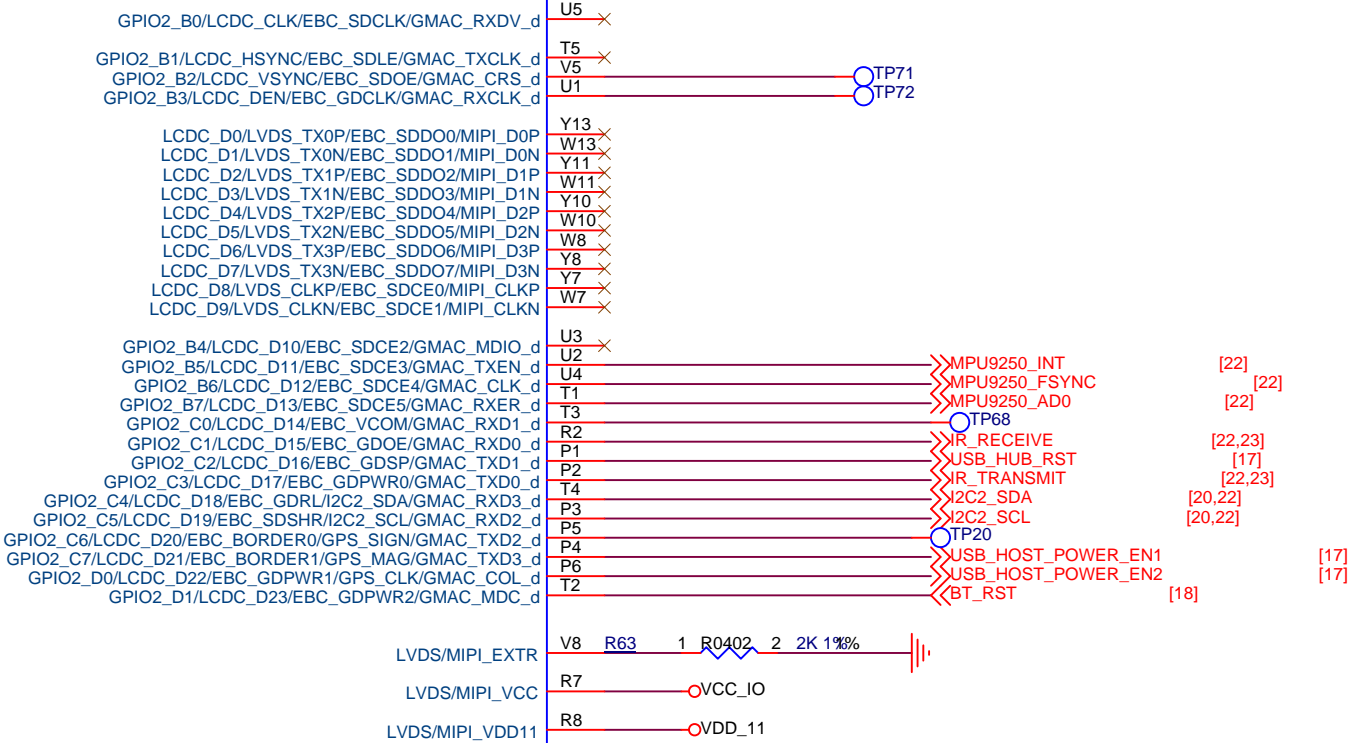
PX3-SE-C



U6A
PX3-SE
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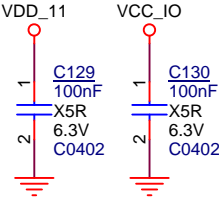
PX3-SE-A


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





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PX3-SE-B

