RK3288 SPA REF V1.0

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62.WIFI/BT-AP6210/AP6212/XZ3538
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73.Audio Codec-ES8316 (option)
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82.HDMI OUT
83.HDMI INPUT
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I2C address(7bit):

1.I2C0 Power:

RK818	0x1C
SYR827	0x40

2.I2C1 Sensor:

CM3218	0x10,0x0c
LSM330TR	G:0x6a A:0x1e
MMA8452Q	0X1d
MPU6500	0x34
LIS3DH	0X19
LSM303D	0X1d

3.I2C2 Audio Codec:

ALC5631	0x1a
ES8316	0x10

4.I2C3 Camera:

OV2659	0x30
OV8825	0x36

Rockchip 瑞芯微电子	福州瑞芯微电子有限公司	
Title:	Index	
File:	RK3288_SPA2_V1	REV:V1.0
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Version	Date	Author	Change Note	Approved
V1.0	20161221	ZXW	First edictor	

福州瑞芯微电子有限公司		
Title: Change List		
File: RK3288_SPA2_V1		REV:V1.0
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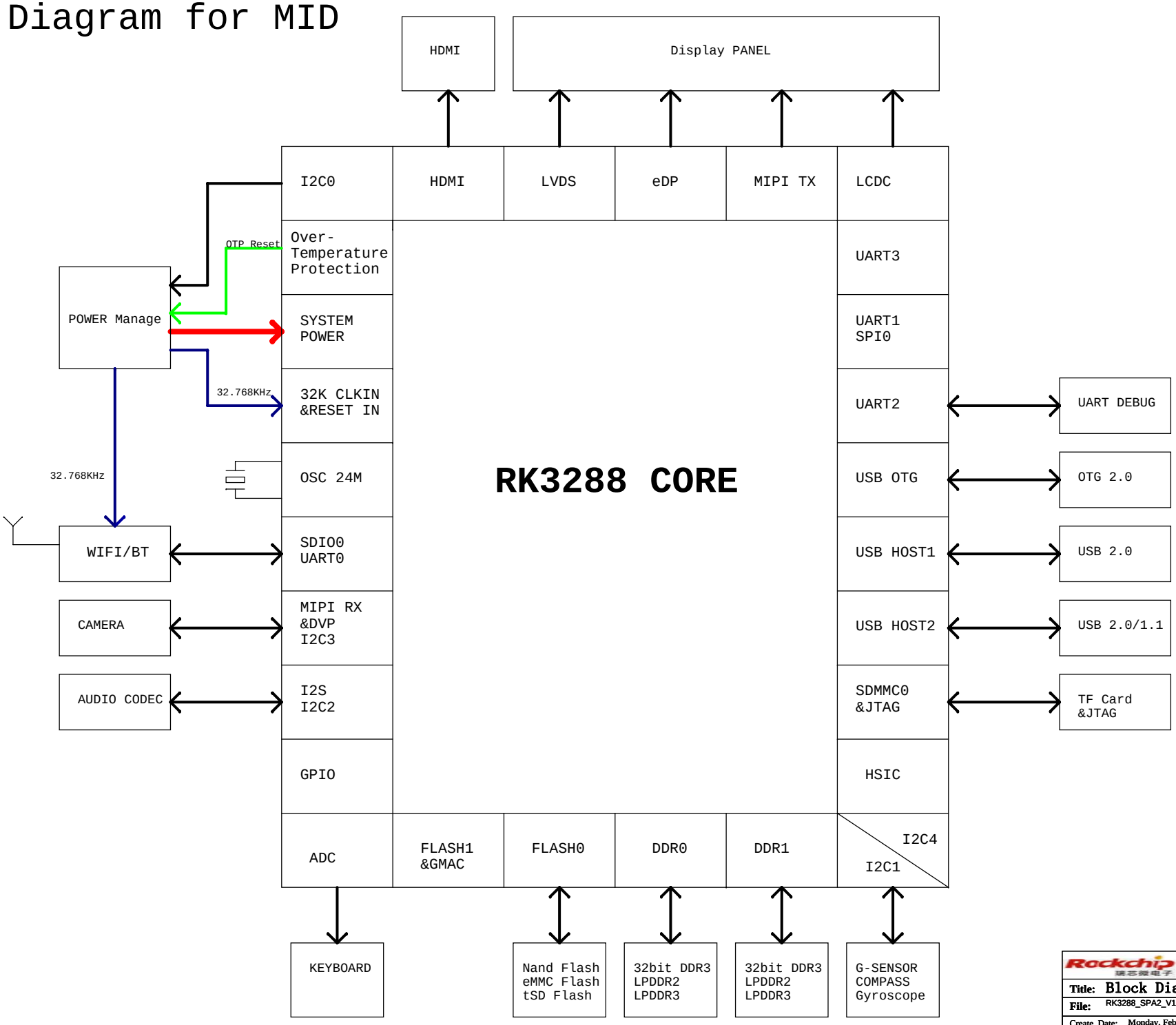
Block Diagram for MID



Rockchip 瑞芯微电子	福州瑞芯微电子有限公司
Title: Block Diagram	
File: RK3288_SPA2_V1	REV: V1.0
Create Date: Monday, February 10, 2014	Page Num: 3
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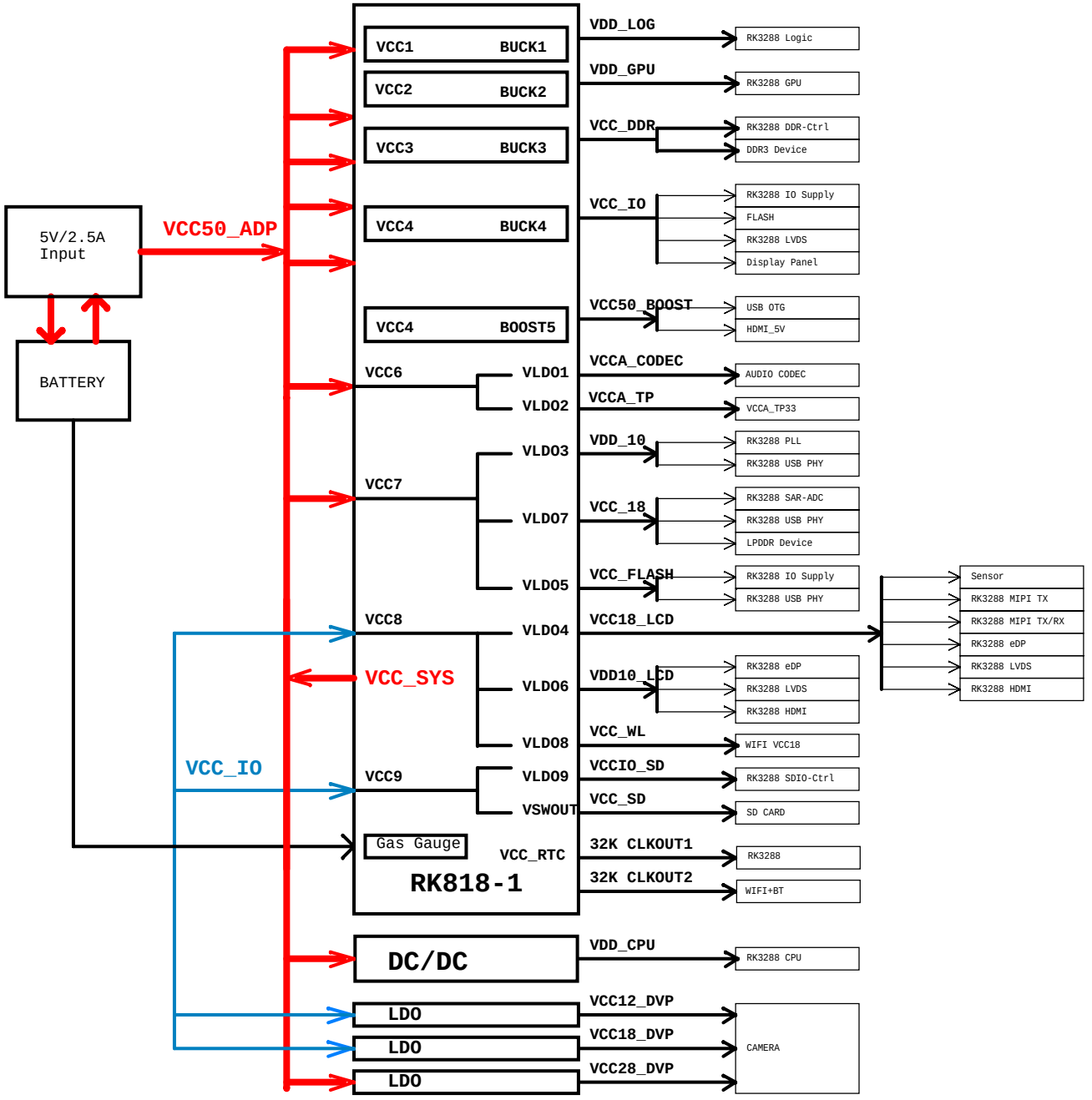

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Title:	Power Tree-RK818-1
File:	RK3288_SPA2_V1 — REV: V1.0
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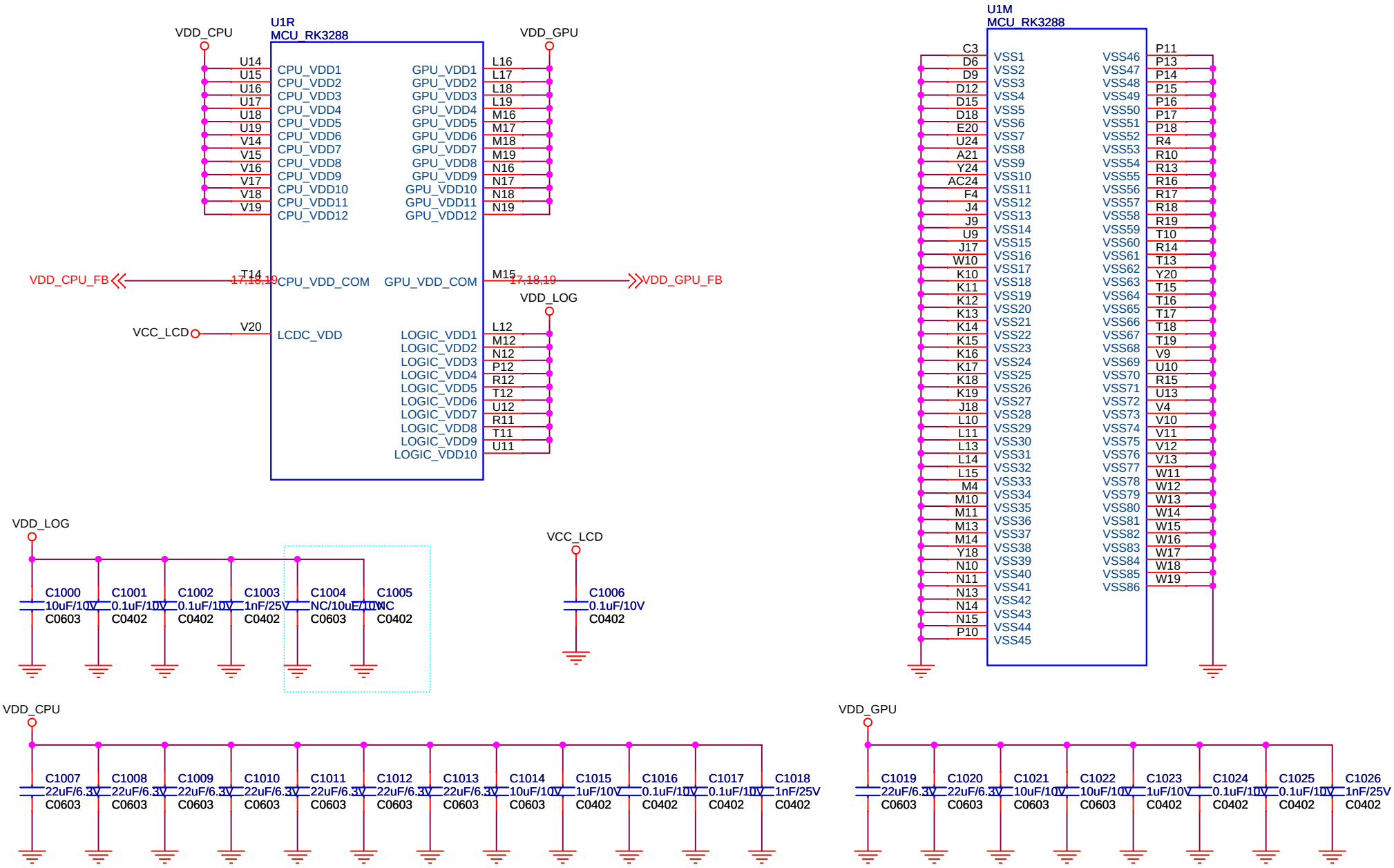

RK3288 Power Filter

Note: All the capacitor should be place close to the power pin of RK3288。

福州瑞芯微电子有限公司		
Title: RK3288 Power		
File: RK3288_SPA2_V1		REV:V1.0
Create Date: Wednesday, February 12, 2014		Page Num:10
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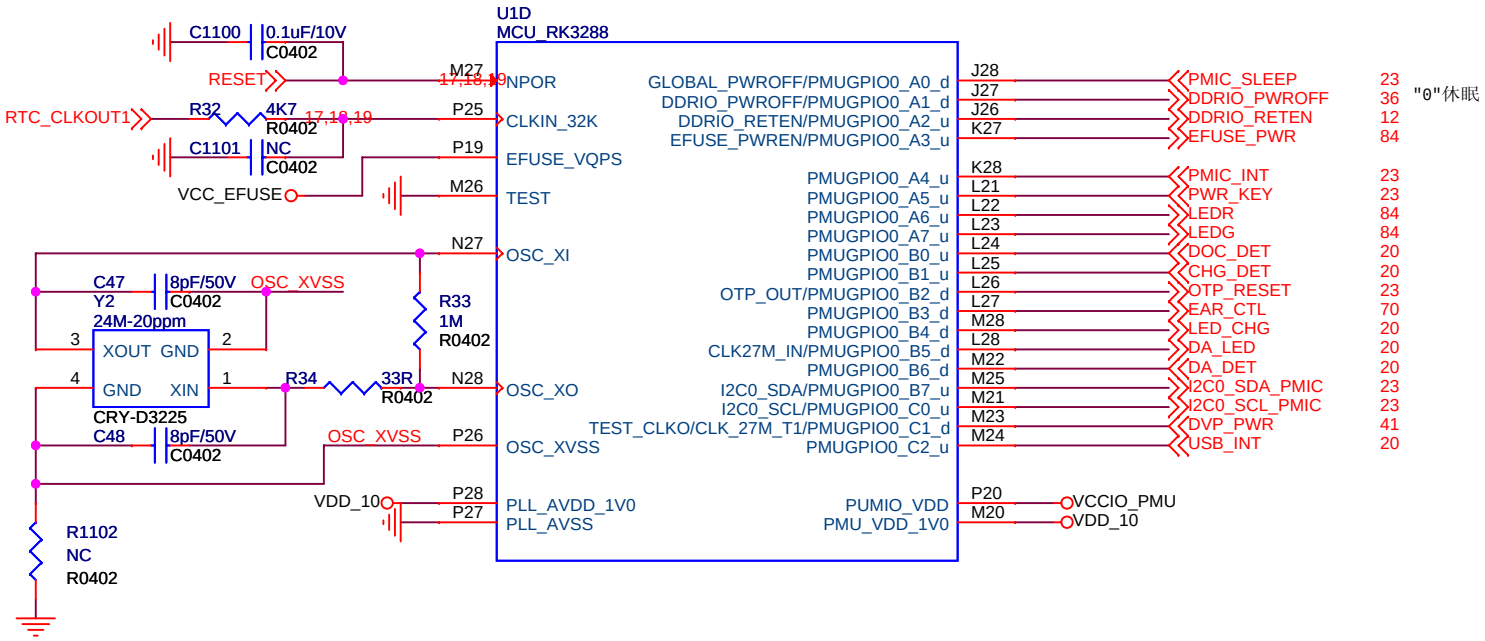

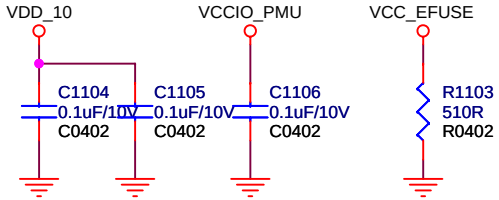

Note: All the capacitor should be place close to the power pin of RK3288。

福州瑞芯微电子有限公司		
Title: RK3288 PMU Controler		
File: RK3288_SPA2_V1		REV:V1.0
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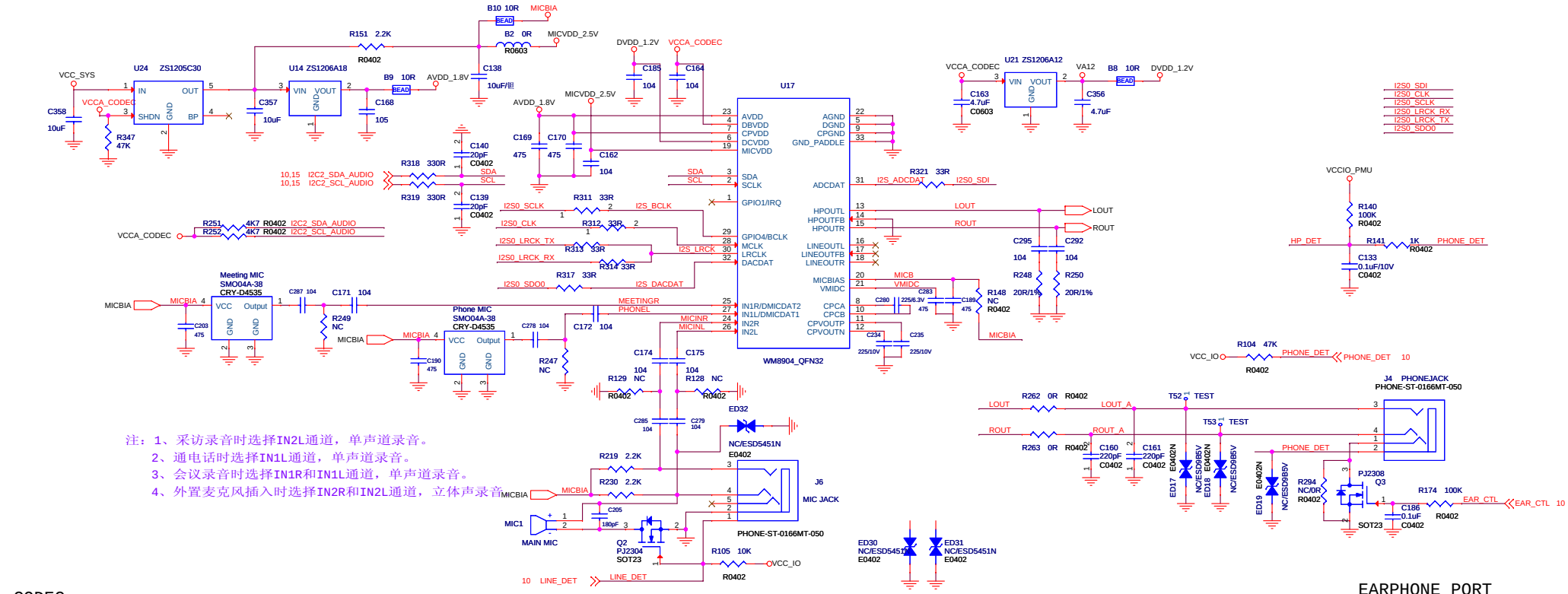

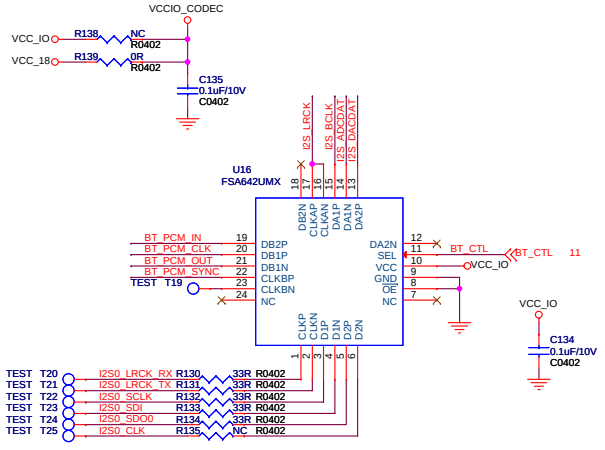

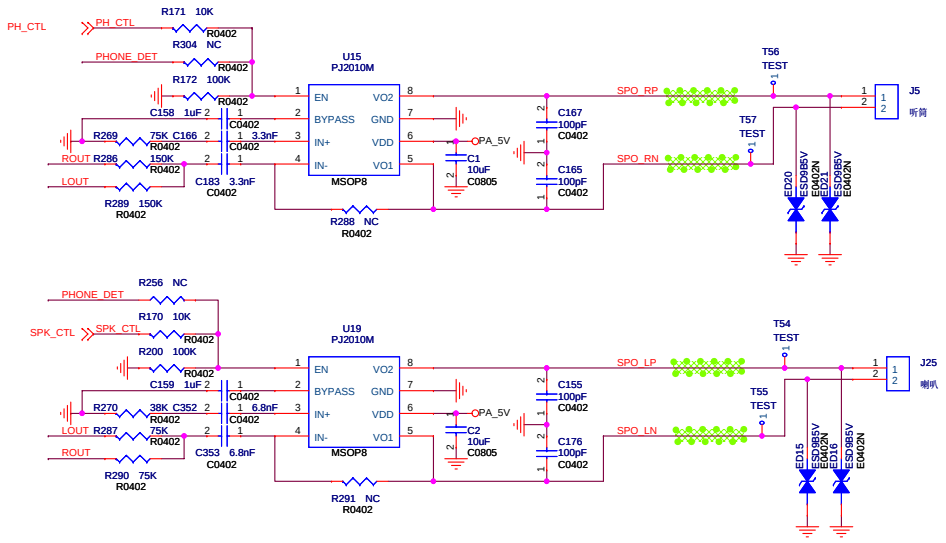

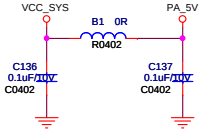

Rockchip 瑞芯微电子	福州瑞芯微电子有限公司
Title: Audio	
File: RK3288_SPA2_V1	REV:2.2
Create Date: Thursday, December 29, 2016	Page Num:11
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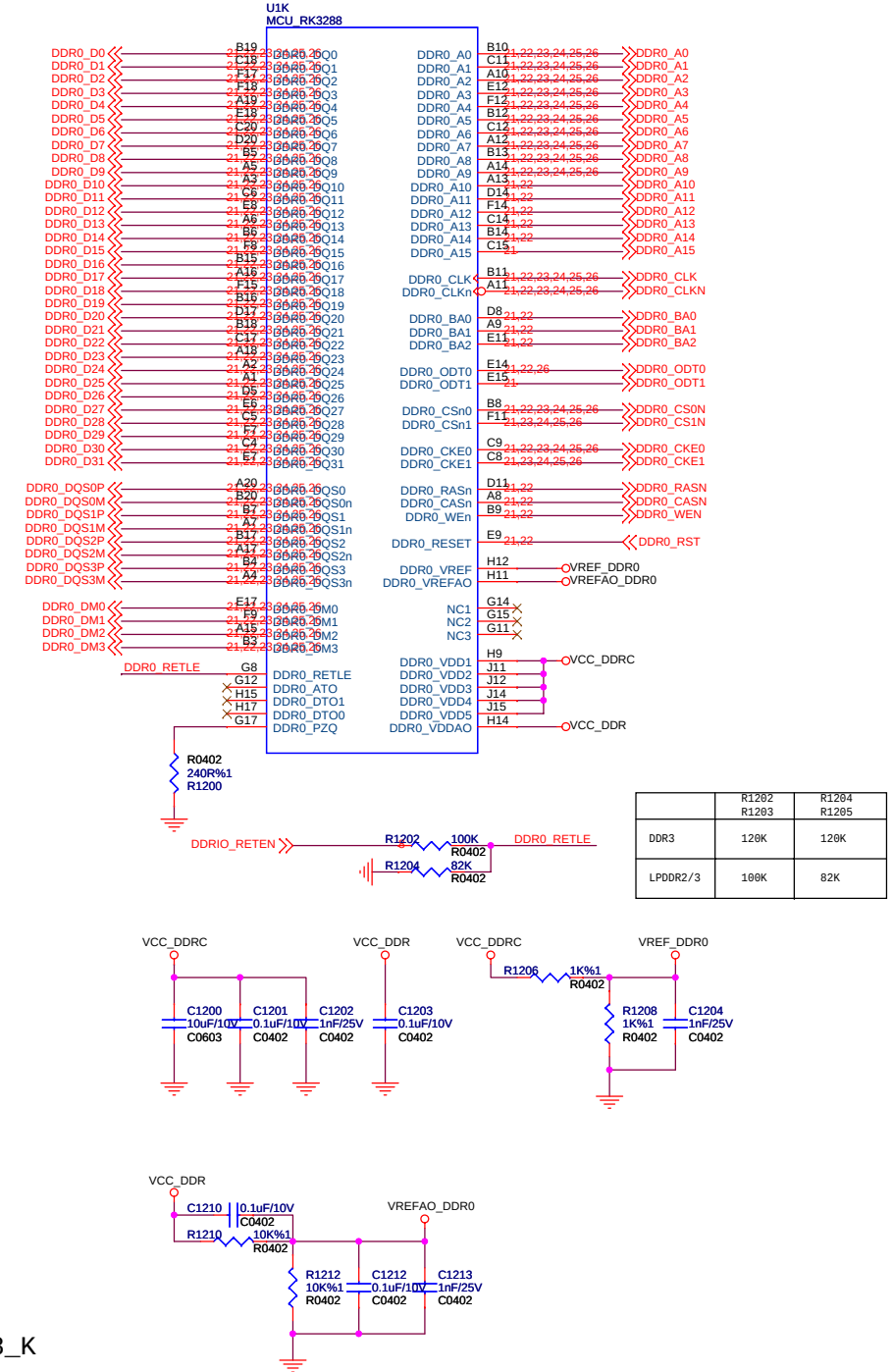
RK3288 DDR Channel-0

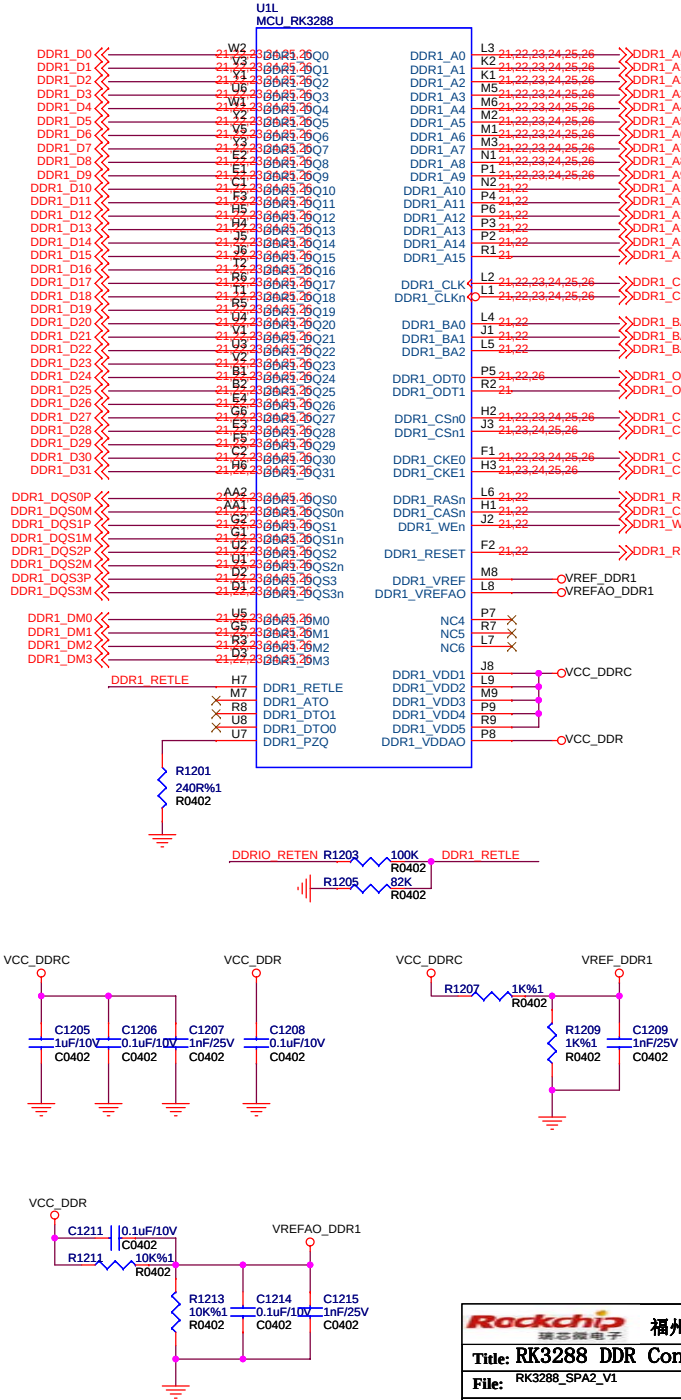


	R1202 R1203	R1204 R1205
DDR3	120K	120K
LPDDR2/3	100K	82K

RK3288_K

Note: All the capacitor should be place close to the power pin of RK3288。

RK3288 DDR Channel-1



RK3288_L

Note: All the capacitor should be place close to the power pin of RK3288。

Rockchip 瑞芯微电子	福州瑞芯微电子有限公司
Title:	RK3288 DDR Controler
File:	RK3288_SPA2_V1 / REV: V1.0
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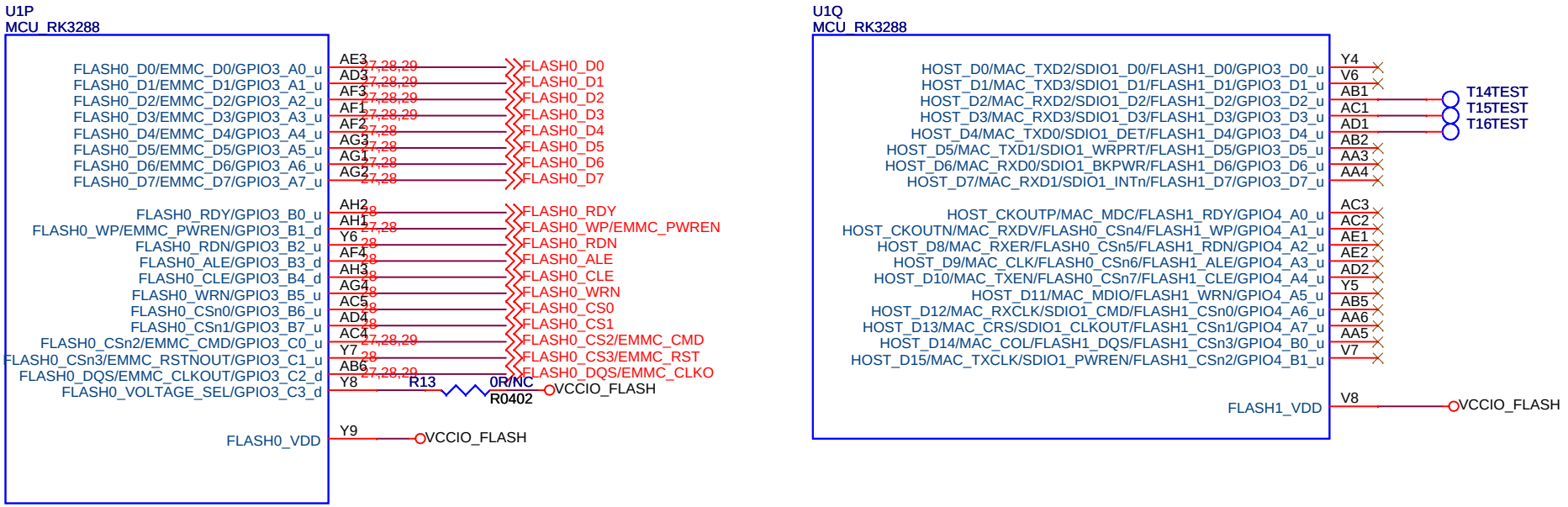
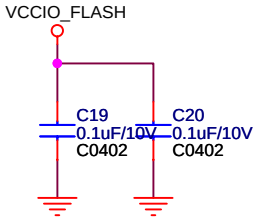
RK3288_P

RK3288_Q



	VCCIO_FLASH=1.8V	VCCIO_FLASH=3.3V
FLASH0_VOLTAGE_SEL pin connect to	VCCIO_FLASH	Floating(Default)



Note: All the capacitor should be place close to the power pin of RK3288。

福州瑞芯微电子有限公司		
Title: RK3288 Flash Control		
File: RK3288_SPA2_V1		REV:V1.0
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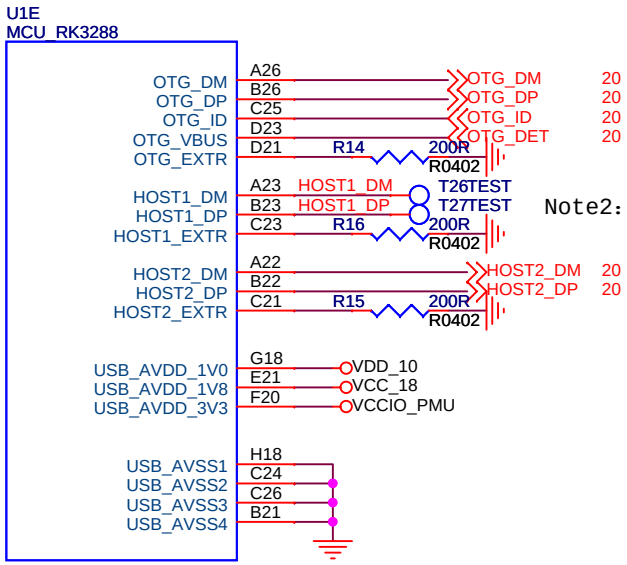
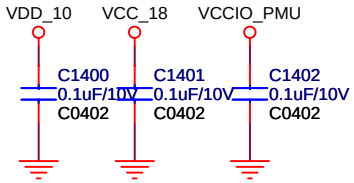
RK3288_E

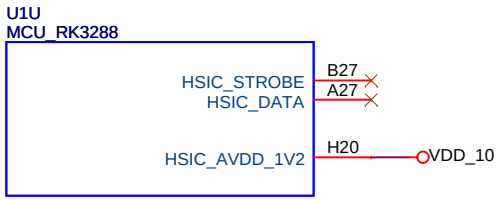


Note2: USB_HOST1 don't support USB1.1;

Note1: All the capacitor should be place close to the power pin of RK3288。



RK3288_U



Rockchip 瑞芯微电子	福州瑞芯微电子有限公司	
Title:	RK3288 USB/HSIC Controler	
File:	RK3288_SPA2_V1	REV:V1.0
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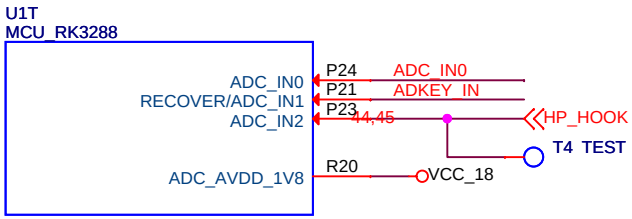
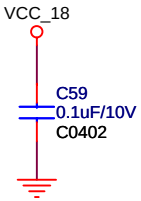
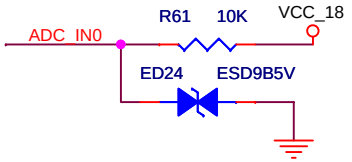
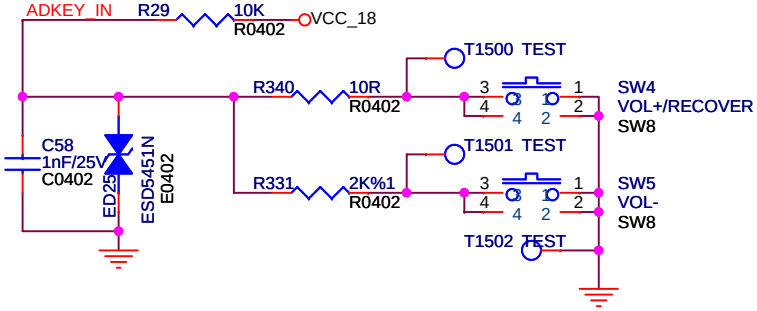
RK3288_T



Note: All the capacitor should be place close to the power pin of RK3288。







KEY BAORD

福州瑞芯微电子有限公司		
Title: RK3288 SARADC/Key Board		
File: RK3288_SPA2_V1		REV:V1.0
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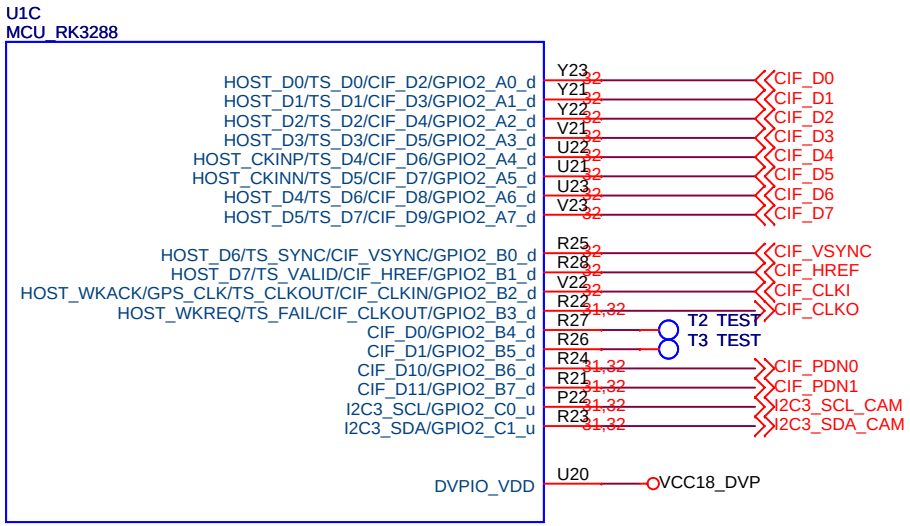
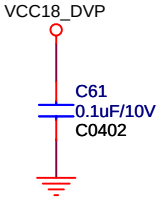
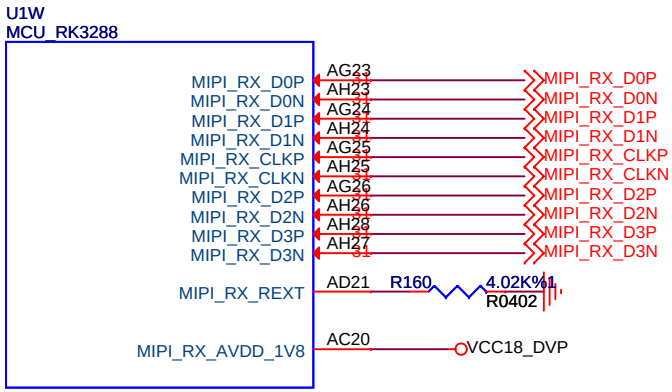
RK3288_C

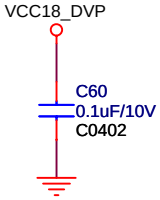


Note: All the capacitor should be place close to the power pin of RK3288。



RK3288_W





Rockchip 瑞芯微电子	福州瑞芯微电子有限公司	
Title:	RK3288 DVP Interface	
File:	RK3288_SPA2_V1	REV:V1.0
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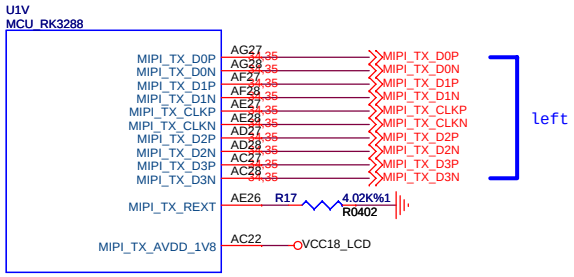
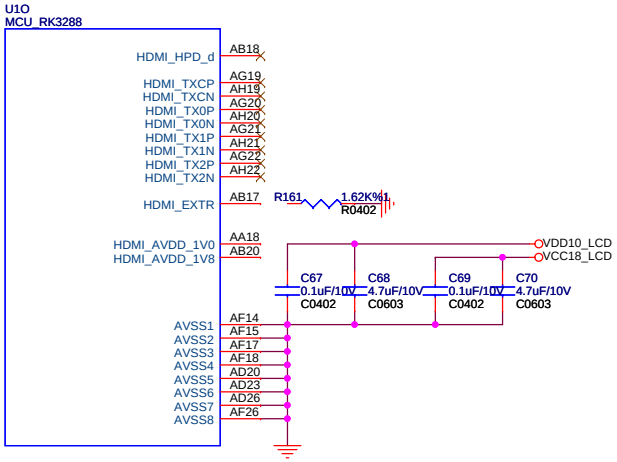
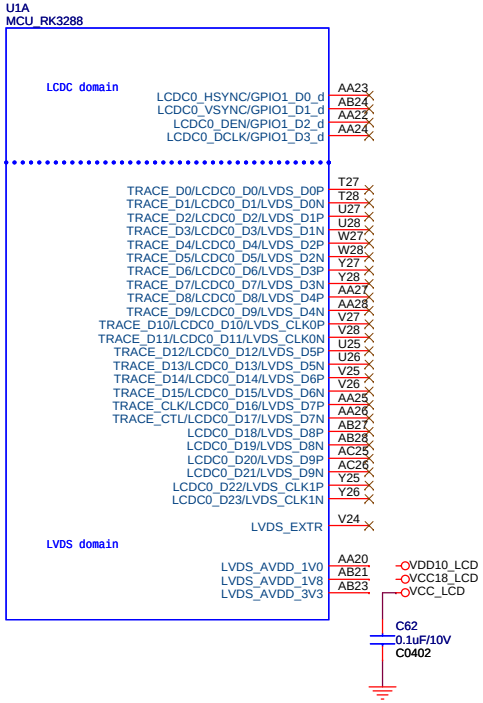
RK3288_V



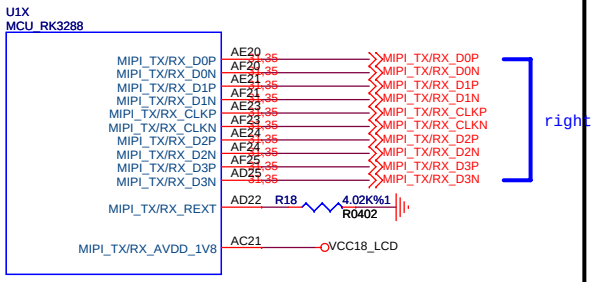
RK3288_O



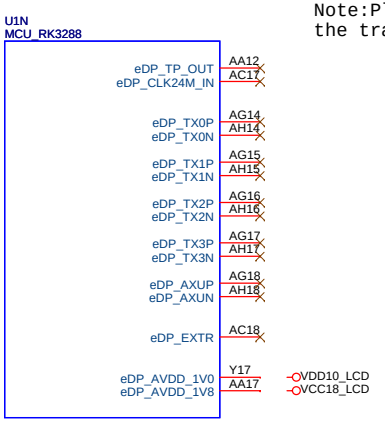
RK3288_A



RK3288_X

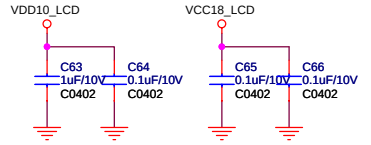


RK3288_N



Note:Placed close to
the transmitter side

Note: All the capacitor should be place close to
the power pin of RK3288。



Correspondence between LCDC DATA and RGB

LCDC_D0	B0	LCDC_D8	G0	LCDC_D16	R0
LCDC_D1	B1	LCDC_D9	G1	LCDC_D17	R1
LCDC_D2	B2	LCDC_D10	G2	LCDC_D18	R2
LCDC_D3	B3	LCDC_D11	G3	LCDC_D19	R3
LCDC_D4	B4	LCDC_D12	G4	LCDC_D20	R4
LCDC_D5	B5	LCDC_D13	G5	LCDC_D21	R5
LCDC_D6	B6	LCDC_D14	G6	LCDC_D22	R6
LCDC_D7	B7	LCDC_D15	G7	LCDC_D23	R7

Rockchip 瑞芯微电子 福州瑞芯微电子有限公司

Title:	RK3288 Display Interface	
File:	RK3288_SPA2_V1	REV:V1.0
Create Date:	Wednesday, February 12, 2014	Page Num:17
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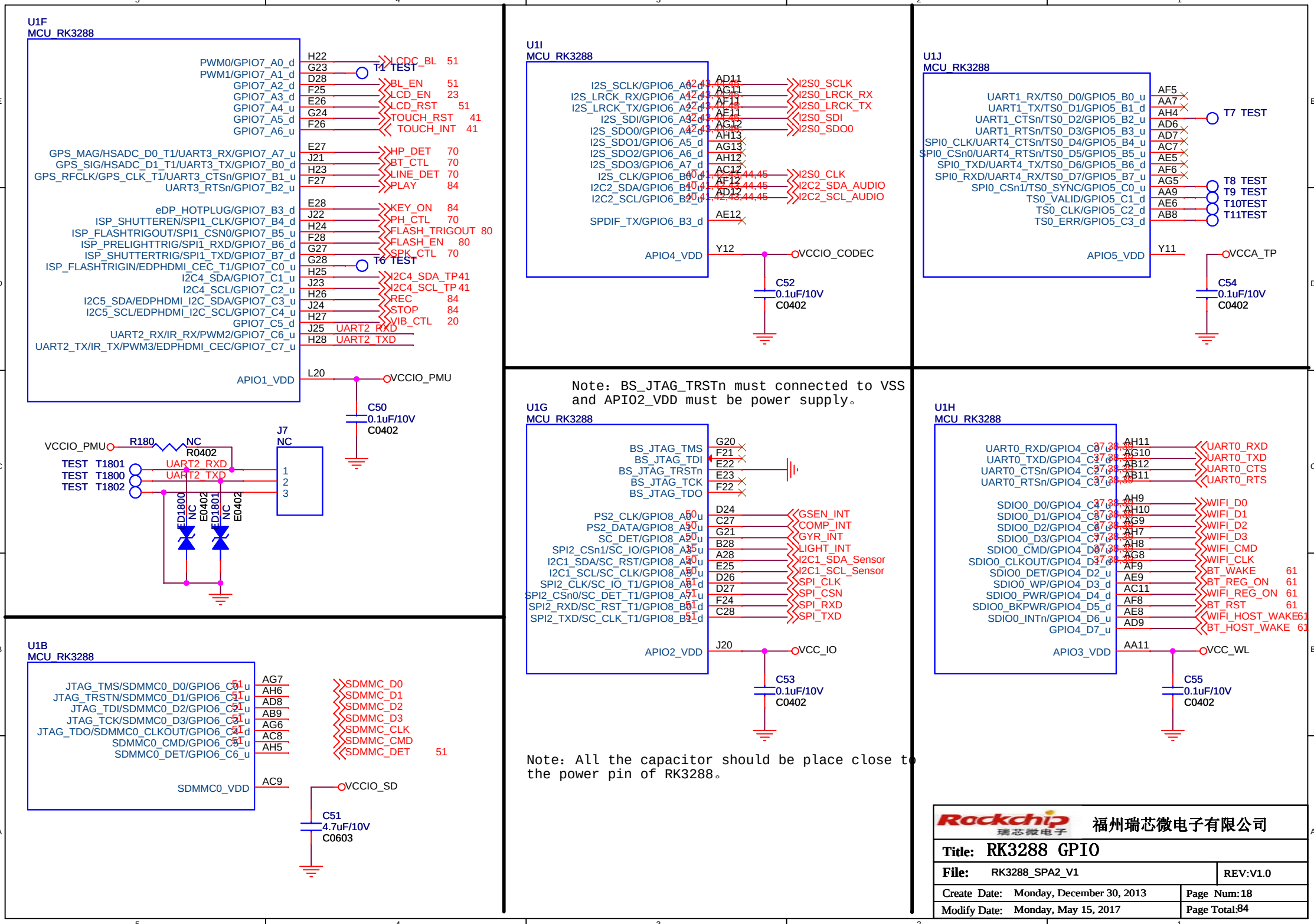
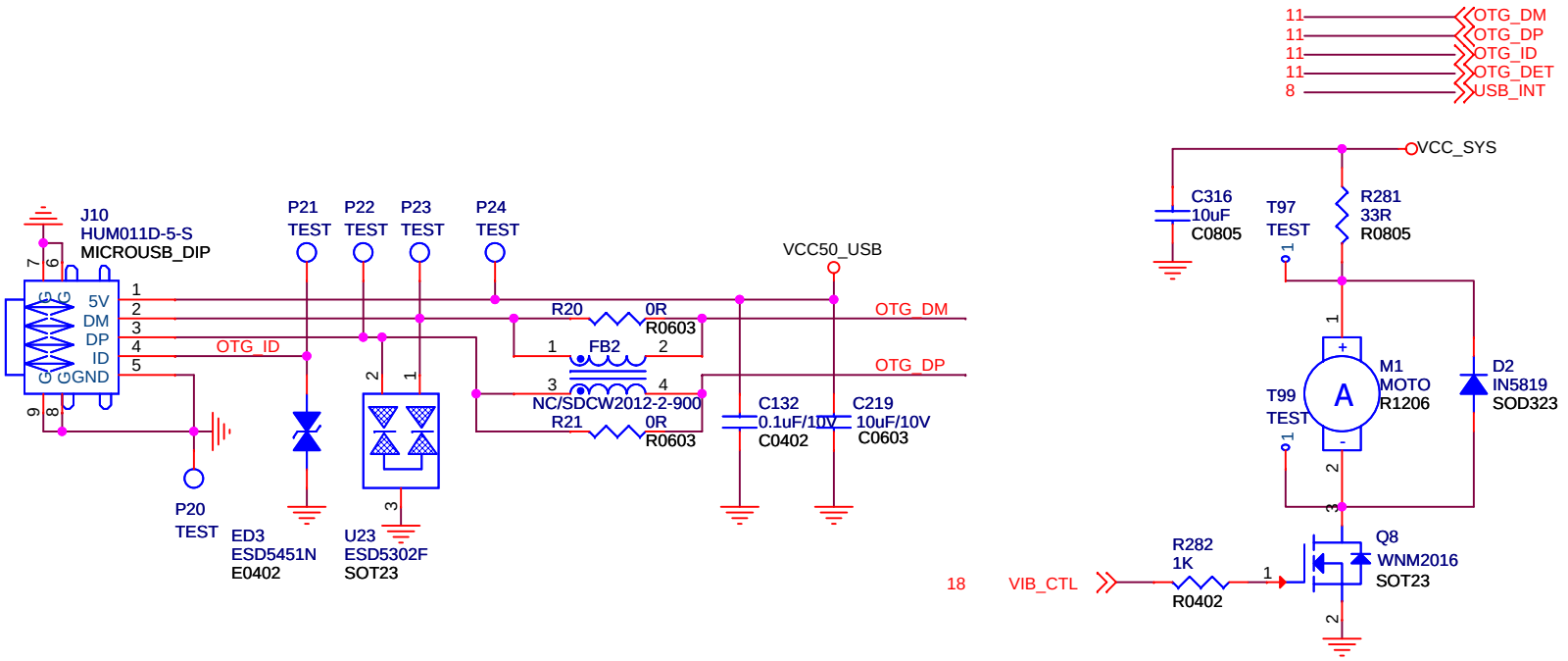
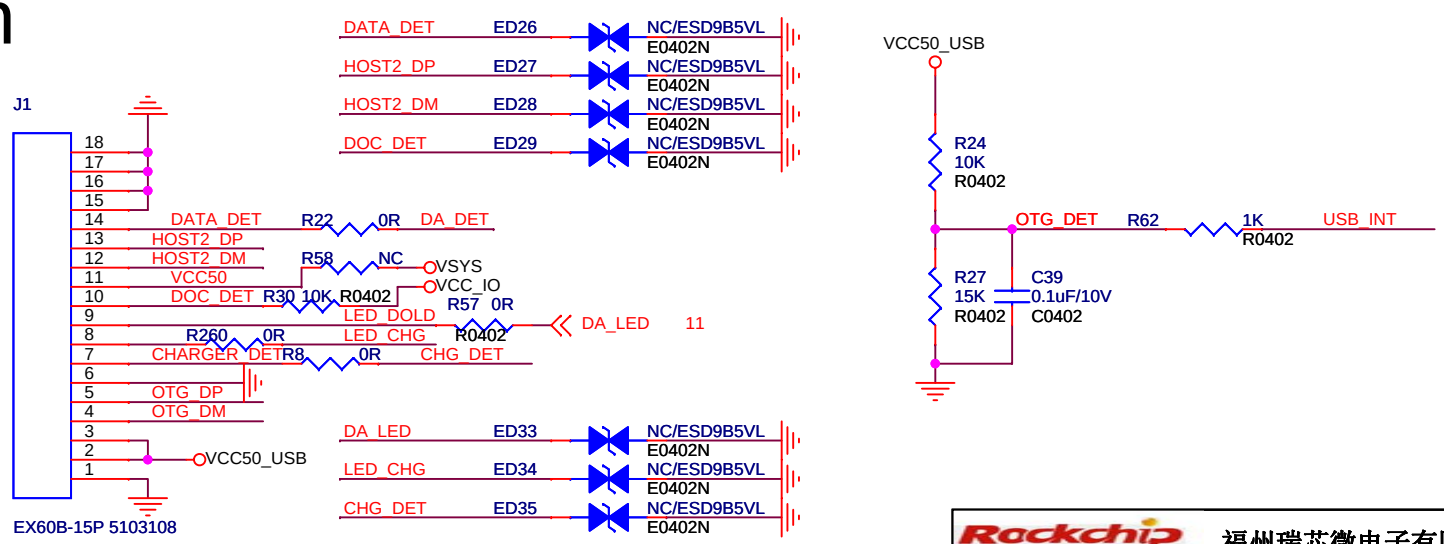

U1F
MCU_RK3288
PWM0/GPIO7_A0_d
PWM1/GPIO7_A1_d
GPIO7_A2_d
GPIO7_A3_d
GPIO7_A4_u
GPIO7_A5_d
GPIO7_A6_u
H22
G23
D28
F25
E26
G24
F26
LCDC_BL 51
T1 TEST
BL_EN 51
LCD_EN 23
LCD_RST 51
TOUCH_RST 41
TOUCH_INT 41
GPS_MAG/HSADC_D0_T1/UART3_RX/GPIO7_A7_u
GPS_SIG/HSADC_D1_T1/UART3_TX/GPIO7_B0_d
GPS_RFCLK/GPS_CLK_T1/UART3_CTSn/GPIO7_B1_u
UART3_RTSn/GPIO7_B2_u
E27
J21
H23
F27
HP_DET 70
BT_CTL 70
LINE_DET 70
PLAY 84
eDP_HOTPLUG/GPIO7_B3_d
ISP_SHUTTEREN/SPI1_CLK/GPIO7_B4_d
ISP_FLASHTRIGOUT/SPI1_CSN0/GPIO7_B5_u
ISP_PRELIGHTTRIG/SPI1_RXD/GPIO7_B6_d
ISP_SHUTTERTRIG/SPI1_TXD/GPIO7_B7_d
ISP_FLASHTRIGIN/EDPHDMI_CEC_T1/GPIO7_C0_u
I2C4_SDA/GPIO7_C1_u
I2C4_SCL/GPIO7_C2_u
I2C5_SDA/EDPHDMI_I2C_SDA/GPIO7_C3_u
I2C5_SCL/EDPHDMI_I2C_SCL/GPIO7_C4_u
GPIO7_C5_d
UART2_RX/IR_RX/PWM2/GPIO7_C6_u
UART2_TX/IR_TX/PWM3/EDPHDMI_CEC/GPIO7_C7_u
E28
J22
H24
F28
G27
G28
KEY_ON 84
PH_CTL 70
FLASH_TRIGOUT 80
FLASH_EN 80
SPK_CTL 70
T6 TEST
H25
J23
H26
J24
H27
J25
H28
I2C4_SDA_TP 41
I2C4_SCL_TP 41
REC 84
STOP 84
VIB_CTL 20
UART2_RXD
UART2_TXD
APIO1_VDD
L20
VCCIO_PMU
C50
0.1uF/10V
C0402
VCCIO_PMU
R180
NC
R0402
TEST T1801
TEST T1800
TEST T1802
UART2_RXD
UART2_TXD
J7
NC
1
2
3
ED1800
NC
E0402
ED1801
NC
E0402
U1I
MCU_RK3288
I2S_SCLK/GPIO6_A0_d
I2S_LRCK_RX/GPIO6_A1_d
I2S_LRCK_TX/GPIO6_A2_d
I2S_SDI/GPIO6_A3_d
I2S_SDO0/GPIO6_A4_d
I2S_SDO1/GPIO6_A5_d
I2S_SDO2/GPIO6_A6_d
I2S_SDO3/GPIO6_A7_d
I2S_CLK/GPIO6_B0_d
I2C2_SDA/GPIO6_B1_d
I2C2_SCL/GPIO6_B2_d
SPDIF_TX/GPIO6_B3_d
APIO4_VDD
AD11
AG11
AF11
AE11
AG12
AF12
AH13
AG13
AH12
AC12
AF12
AD12
AE12
Y12
I2S0_SCLK
I2S0_LRCK_RX
I2S0_LRCK_TX
I2S0_SDI
I2S0_SDO0
I2S0_CLK
I2C2_SDA_AUDIO
I2C2_SCL_AUDIO
VCCIO_CODEC
C52
0.1uF/10V
C0402
U1J
MCU_RK3288
UART1_RX/TS0_D0/GPIO5_B0_u
UART1_TX/TS0_D1/GPIO5_B1_d
UART1_CTSn/TS0_D2/GPIO5_B2_u
UART1_RTSn/TS0_D3/GPIO5_B3_u
SPI0_CLK/UART4_CTSn/TS0_D4/GPIO5_B4_u
SPI0_CSn0/UART4_RTSn/TS0_D5/GPIO5_B5_u
SPI0_TXD/UART4_TX/TS0_D6/GPIO5_B6_d
SPI0_RXD/UART4_RX/TS0_D7/GPIO5_B7_u
SPI0_CSn1/TS0_SYNC/GPIO5_C0_u
TS0_VALID/GPIO5_C1_d
TS0_CLK/GPIO5_C2_d
TS0_ERR/GPIO5_C3_d
APIO5_VDD
AF5
AA7
AH4
AD6
AD7
AC7
AE5
AF6
AG5
AA9
AE6
AB8
Y11
T7 TEST
T8 TEST
T9 TEST
T10TEST
T11TEST
VCCA_TP
C54
0.1uF/10V
C0402
Note: BS_JTAG_TRSTn must connected to VSS and APIO2_VDD must be power supply。
U1G
MCU_RK3288
BS_JTAG_TMS
BS_JTAG_TDI
BS_JTAG_TRSTn
BS_JTAG_TCK
BS_JTAG_TDO
PS2_CLK/GPIO8_A0_u
PS2_DATA/GPIO8_A1_u
SC_DET/GPIO8_A2_u
SPI2_CSn1/SC_IO/GPIO8_A3_u
I2C1_SDA/SC_RST/GPIO8_A4_u
I2C1_SCL/SC_CLK/GPIO8_A5_u
SPI2_CLK/SC_IO_T1/GPIO8_A6_d
SPI2_CSn0/SC_DET_T1/GPIO8_A7_u
SPI2_RXD/SC_RST_T1/GPIO8_B0_d
SPI2_TXD/SC_CLK_T1/GPIO8_B1_d
APIO2_VDD
G20
F21
E22
E23
F22
D24
C27
G21
B28
A28
E25
D26
D27
F24
C28
J20
GSEN_INT
COMP_INT
GYR_INT
LIGHT_INT
I2C1_SDA_Sensor
I2C1_SCL_Sensor
SPI_CLK
SPI_CSN
SPI_RXD
SPI_TXD
VCC_IO
C53
0.1uF/10V
C0402
U1H
MCU_RK3288
UART0_RXD/GPIO4_C0_u
UART0_TXD/GPIO4_C1_u
UART0_CTSn/GPIO4_C2_u
UART0_RTSn/GPIO4_C3_u
SDIO0_D0/GPIO4_C4_u
SDIO0_D1/GPIO4_C5_u
SDIO0_D2/GPIO4_C6_u
SDIO0_D3/GPIO4_C7_u
SDIO0_CMD/GPIO4_D0_u
SDIO0_CLKOUT/GPIO4_D1_d
SDIO0_DET/GPIO4_D2_u
SDIO0_WP/GPIO4_D3_d
SDIO0_PWR/GPIO4_D4_d
SDIO0_BKPWR/GPIO4_D5_d
SDIO0_INTn/GPIO4_D6_u
GPIO4_D7_u
APIO3_VDD
AH11
AG10
AB12
AB11
AH9
AH10
AG9
AH7
AH8
AG8
AF9
AE9
AC11
AF8
AE8
AD9
AA11
UART0_RXD
UART0_TXD
UART0_CTS
UART0_RTS
WIFI_D0
WIFI_D1
WIFI_D2
WIFI_D3
WIFI_CMD
WIFI_CLK
BT_WAKE 61
BT_REG_ON 61
WIFI_REG_ON 61
BT_RST 61
WIFI_HOST_WAKE 61
BT_HOST_WAKE 61
VCC_WL
C55
0.1uF/10V
C0402
U1B
MCU_RK3288
JTAG_TMS/SDMMC0_D0/GPIO6_C0_u
JTAG_TRSTN/SDMMC0_D1/GPIO6_C1_u
JTAG_TDI/SDMMC0_D2/GPIO6_C2_u
JTAG_TCK/SDMMC0_D3/GPIO6_C3_u
JTAG_TDO/SDMMC0_CLKOUT/GPIO6_C4_d
SDMMC0_CMD/GPIO6_C5_u
SDMMC0_DET/GPIO6_C6_u
SDMMC0_VDD
AG7
AH6
AD8
AB9
AG6
AC8
AH5
AC9
SDMMC_D0
SDMMC_D1
SDMMC_D2
SDMMC_D3
SDMMC_CLK
SDMMC_CMD
SDMMC_DET 51
VCCIO_SD
C51
4.7uF/10V
C0603
Note: All the capacitor should be place close to the power pin of RK3288。
Rockchip 瑞芯微电子
福州瑞芯微电子有限公司
Title: RK3288 GPIO
File: RK3288_SPA2_V1
REV:V1.0
Create Date: Monday, December 30, 2013
Page Num:18
Modify Date: Monday, May 15, 2017
Page Total:84

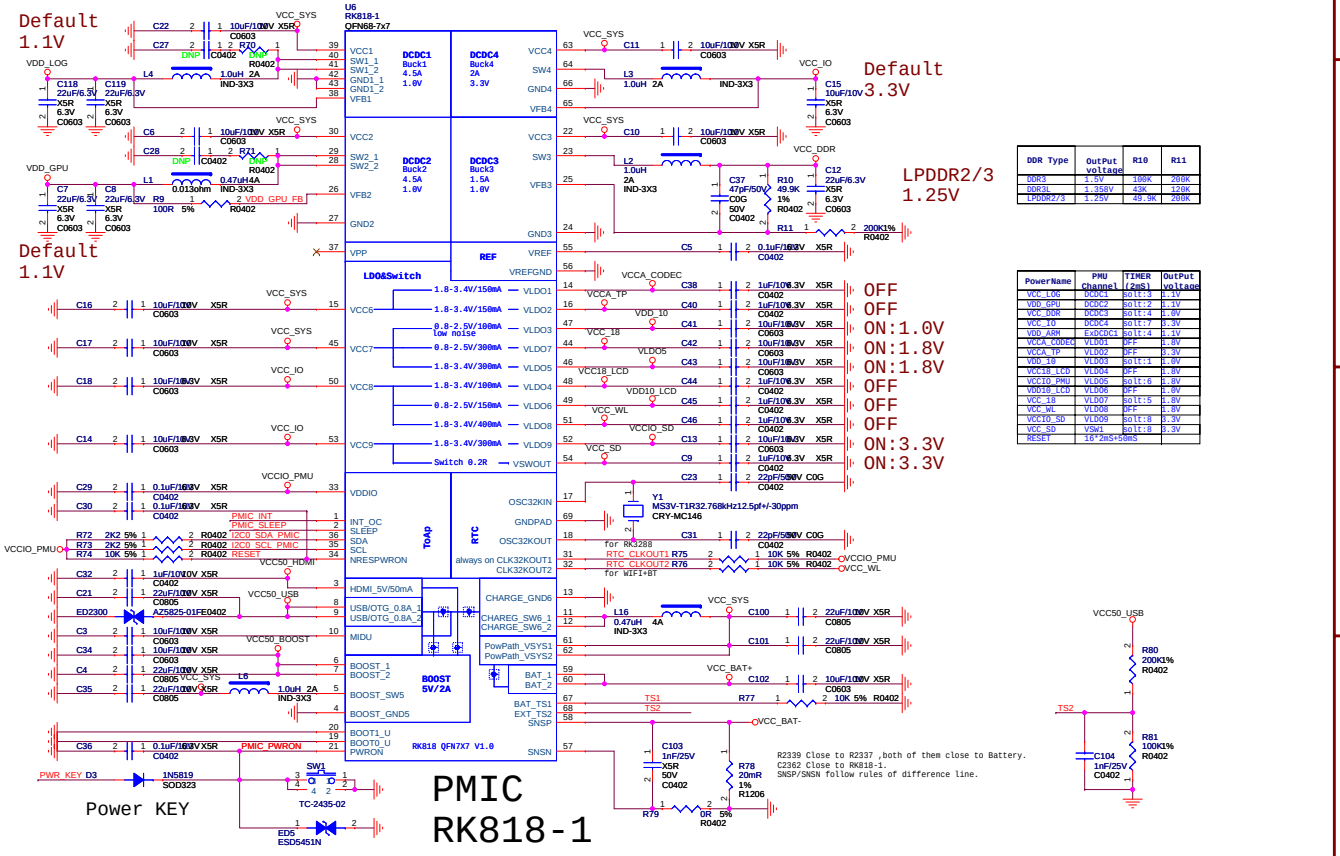
USB OTG



USB Detection

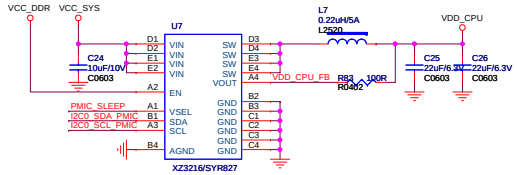


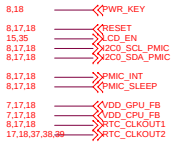
Rockchip 瑞芯微电子	福州瑞芯微电子有限公司	
Title: USB Port		
File: RK3288_SPA2_V1		REV:V1.0
Create Date: Thursday, February 13, 2014		Page Num:20
Modify Date: Monday, May 15, 2017		Page Total:84

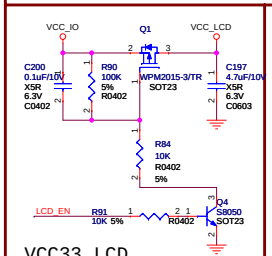


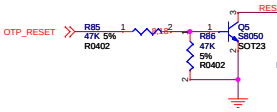
DDR Type	Output voltage	R10	R11
DDR3	1.5V	100K	200K
DDR3L	1.358V	43K	120K
LPDDR2/3	1.25V	49.9K	200K

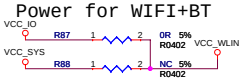
PowerName	PMU Channel	TIMER (2mS)	OutPut voltage
VCC_1V8	DCDC1	bit:3	1.1V
VDD_GPU	DCDC2	bit:2	1.1V
VCC_DDR	DCDC3	bit:4	1.8V
VCC_IO	DCDC4	bit:7	3.3V
VDD_ARM	ExDCDC1	bit:4	1.1V
VCCA_CODEC	VLD01	OFF	1.8V
VCCA_TP	VLD02	OFF	3.3V
VDD_10	VLD03	bit:1	1.0V
VCC18_LCD	VLD04	OFF	1.8V
VCC10_PMU	VLD05	bit:6	1.8V
VDD18_LCD	VLD06	OFF	1.8V
VCC_18	VLD07	bit:5	1.8V
VCC_WL	VLD08	OFF	1.8V
VCC10_SD	VLD09	bit:8	3.3V
VCC_SD	VSW1	bit:8	3.3V
RESET	16*2mS+50mS		

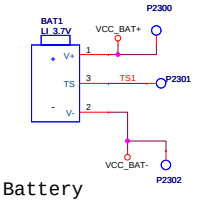




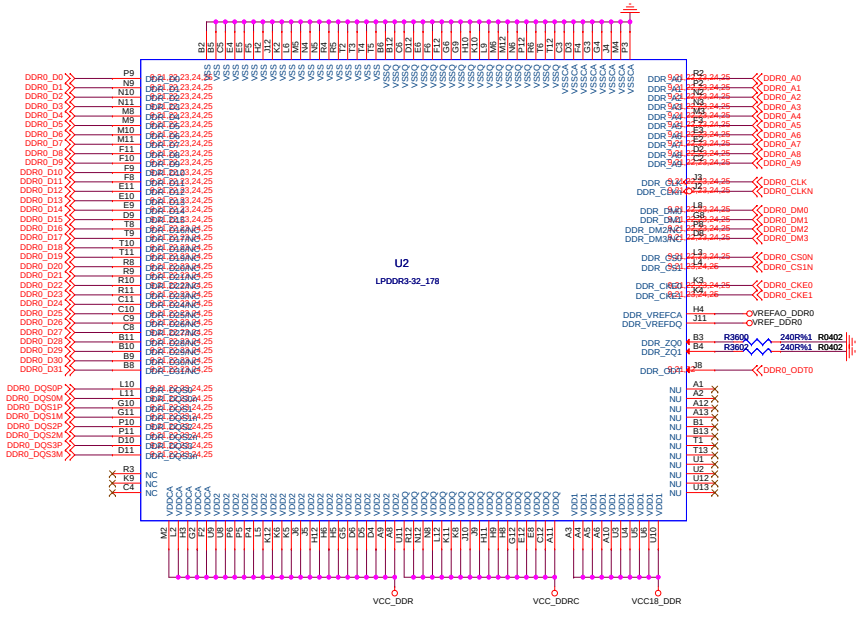


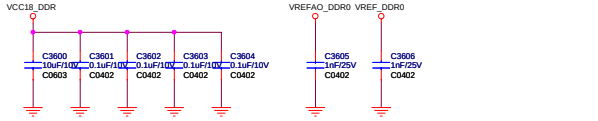


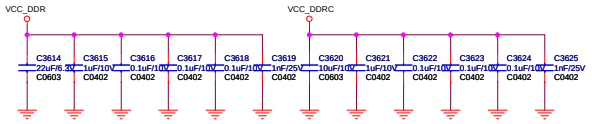


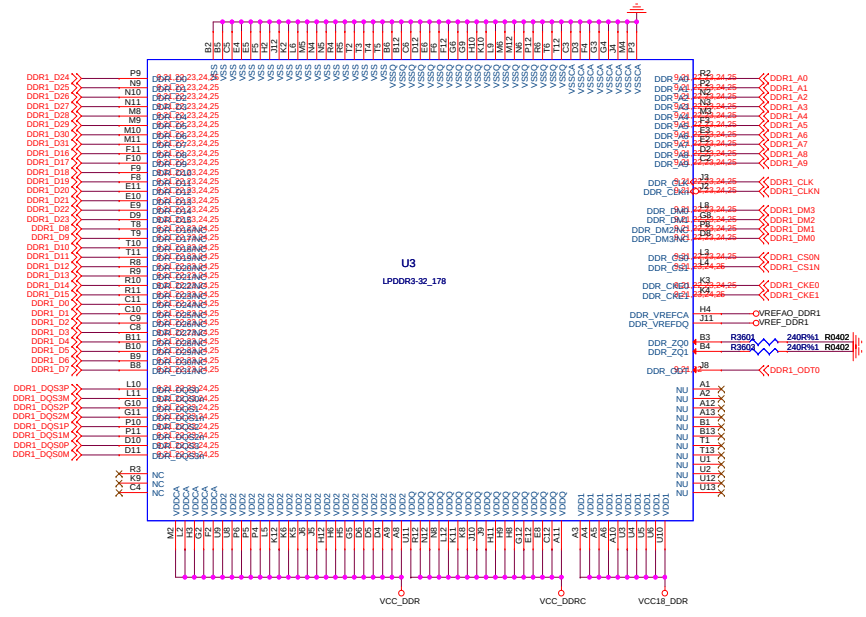


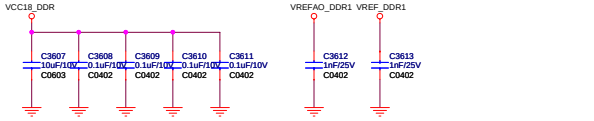
Rockchip	福州瑞芯微电子有限公司
Title:	Power-RK818-1_1CELL
File:	RK3288_SPA2_V1 REV:V1.0
Create Date:	Monday, December 01, 2014 Page Num:23
Modify Date:	Monday, May 15, 2017 Page Total:84

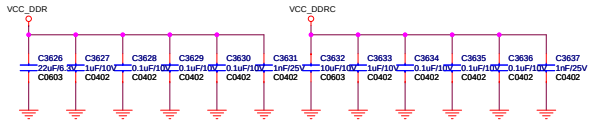


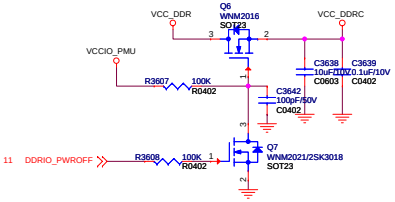


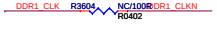










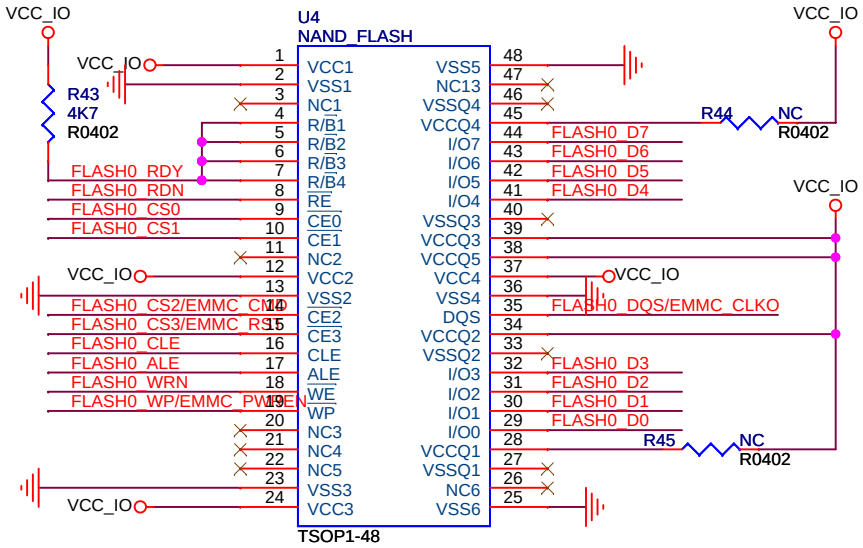


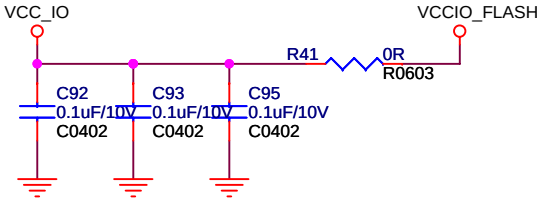
Rockchip 瑞芯微	福州瑞芯微电子有限公司
Title:	RAM-LPDDR3(178P) (option)
File:	RK3288_SPA2_V1 / REV:V1.0
Create Date:	Saturday, January 11, 2014 / Page Num:38
Modify Date:	Monday, May 15, 2017 / Page Total:84

NAND FLASH

note: if use toshiba and sandisk Flash at DDR mode,
VCCQ1 and VCCQ4 must be connected to VCC_IO。

10,27,29 FLASH0_D0
10,27,29 FLASH0_D1
10,27,29 FLASH0_D2
10,27,29 FLASH0_D3
10,27 FLASH0_D4
10,27 FLASH0_D5
10,27 FLASH0_D6
10,27 FLASH0_D7
10 FLASH0_RDY
10,27 FLASH0_WP/EMMC_PWREN
10 FLASH0_RDN
10 FLASH0_ALE
10 FLASH0_CLE
10 FLASH0_WRN
10 FLASH0_CS0
10 FLASH0_CS1
10,27,29 FLASH0_CS2/EMMC_CMD
10 FLASH0_CS3/EMMC_RST
10,27,29 FLASH0_DQS/EMMC_CLKO

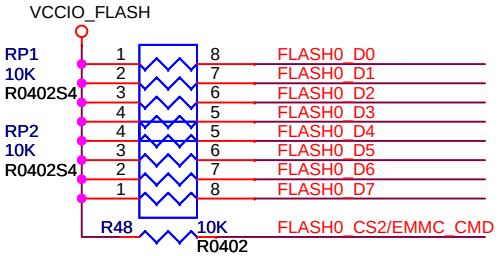


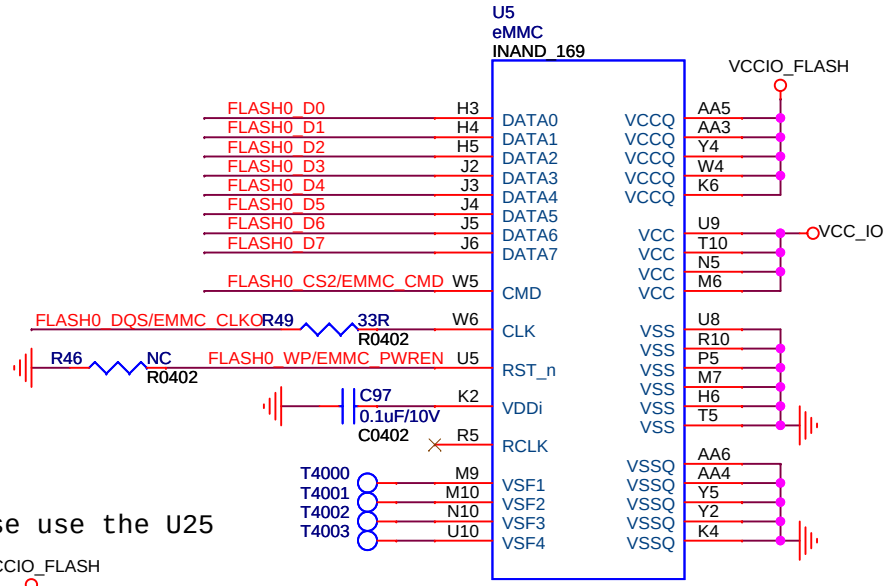


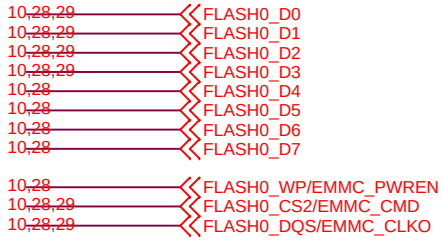
Note:
Reserve PAD for Update.

Rockchip 瑞芯微电子	福州瑞芯微电子有限公司	
Title:	Memory-Nand FLASH (option)	
File:	RK3288_SPA2_V1	REV:V1.0
Create Date:	Monday, March 21, 2016	Page Num:39
Modify Date:	Monday, May 15, 2017	Page Total:84

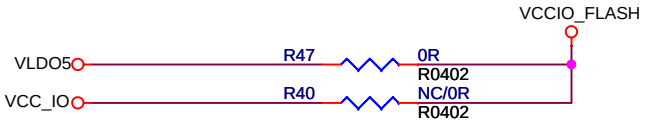
eMMC FLASH

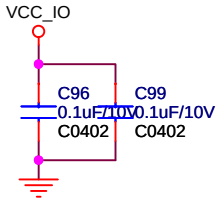


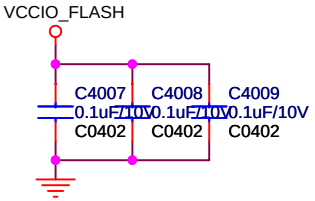




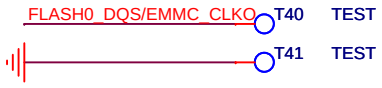
Note:
If the EMMC current exceeds 300MA, please use the U25



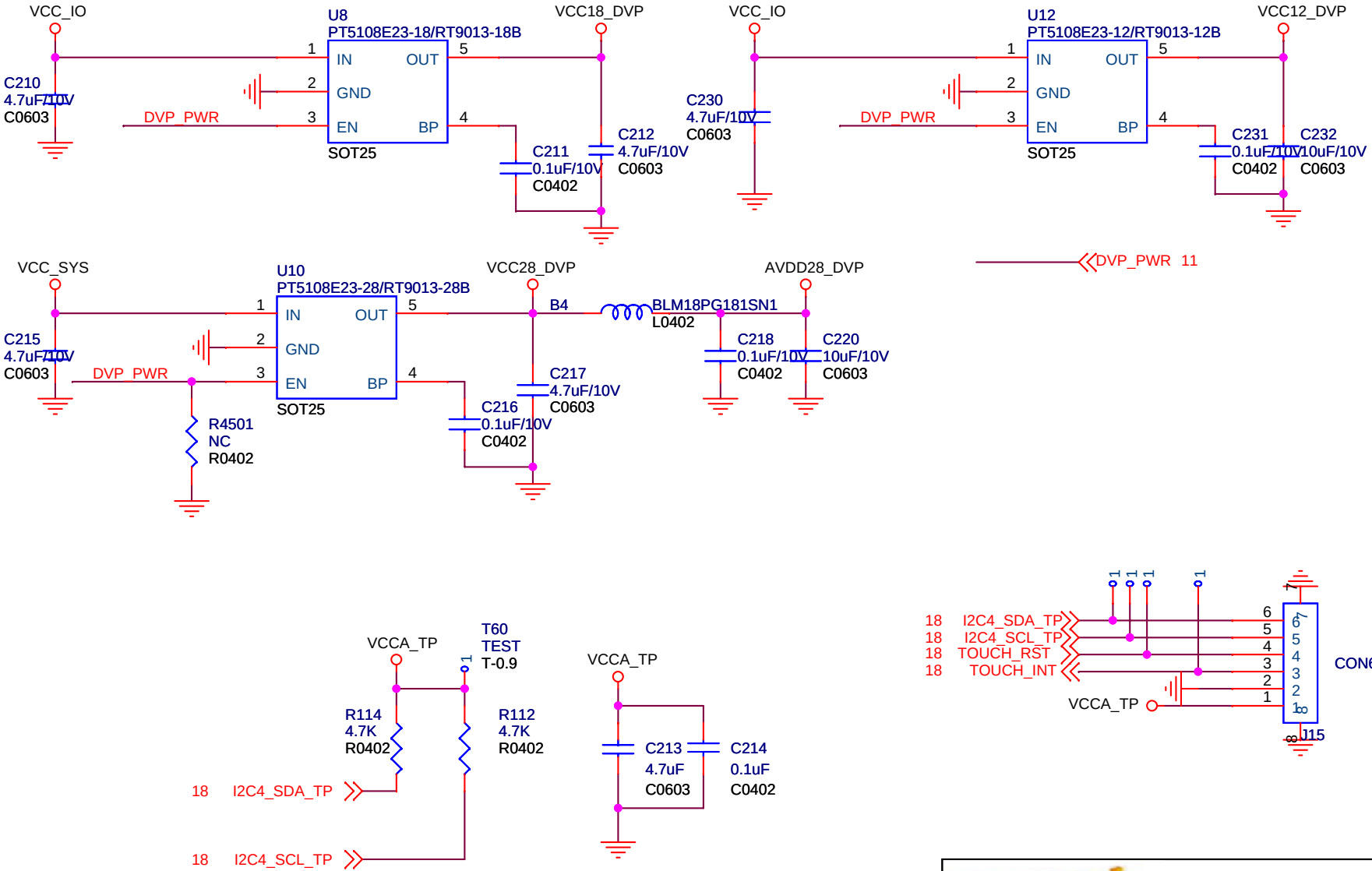




Note:
Reserve PAD for Update.

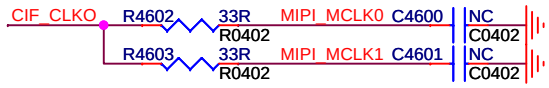


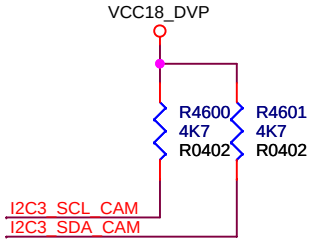
福州瑞芯微电子有限公司		
Title: Memory-eMMC		
File: RK3288_SPA2_V1		REV:V1.0
Create Date: Wednesday, February 12, 2014		Page Num:40
Modify Date: Monday, May 15, 2017		Page Total:84

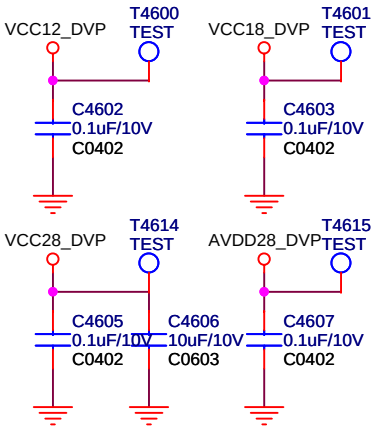


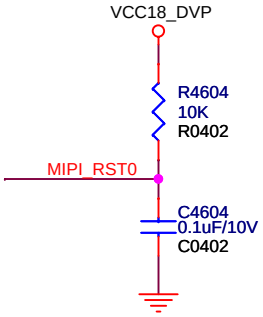
福州瑞芯微电子有限公司		
Title: CAM-POWER		
File: RK3288_SPA2_V1		REV:V1.0
Create Date: Friday, March 18, 2016		Page Num: 41
Modify Date: Monday, May 15, 2017		Page Total: 84

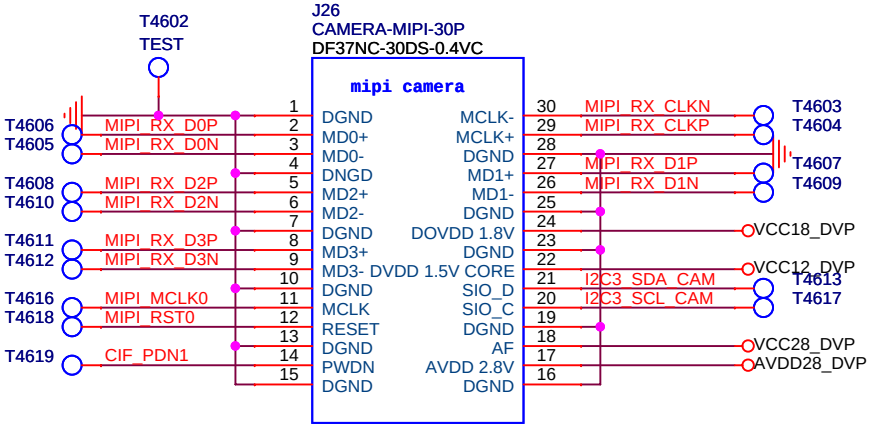
MIPI Camera







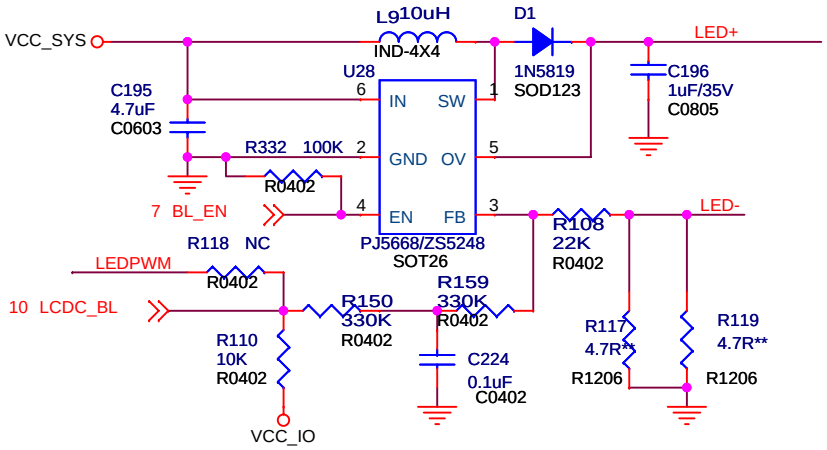


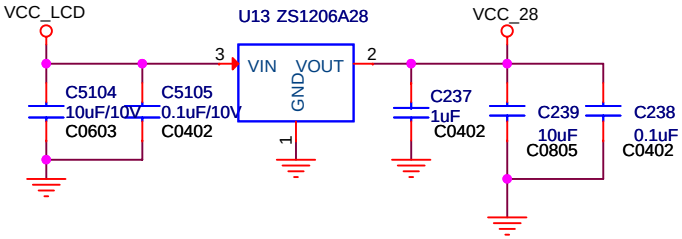


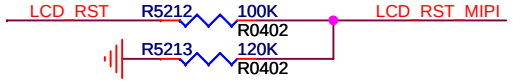
Rockchip 瑞芯微电子	福州瑞芯微电子有限公司	
Title:	Camera-MIPI CSI	
File:	RK3288_SPA2_V1	REV:V1.0
Create Date:	Friday, October 15, 2010	Page Num:42
Modify Date:	Monday, May 15, 2017	Page Total:84

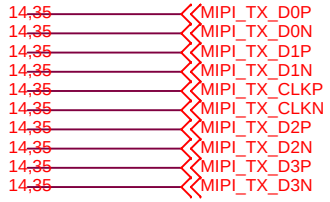
MIPI Panel

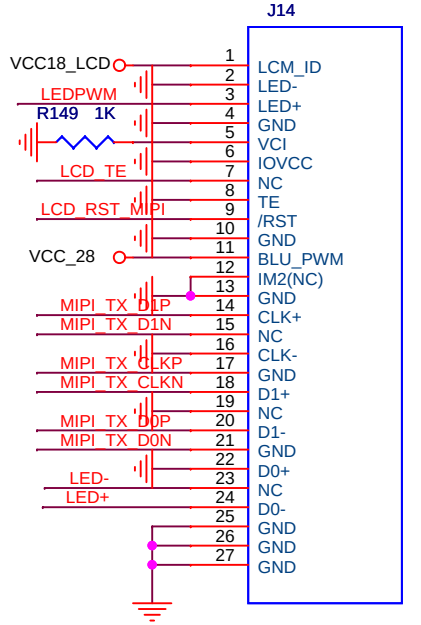
Note: Single MIPI LCM must be connected to MIPI_TX controler。



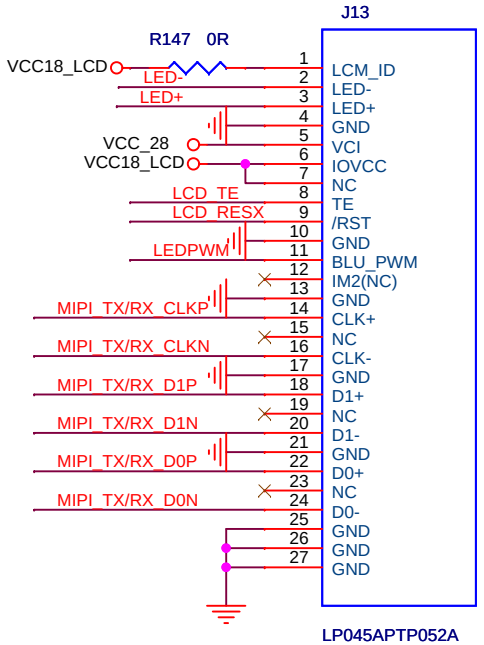








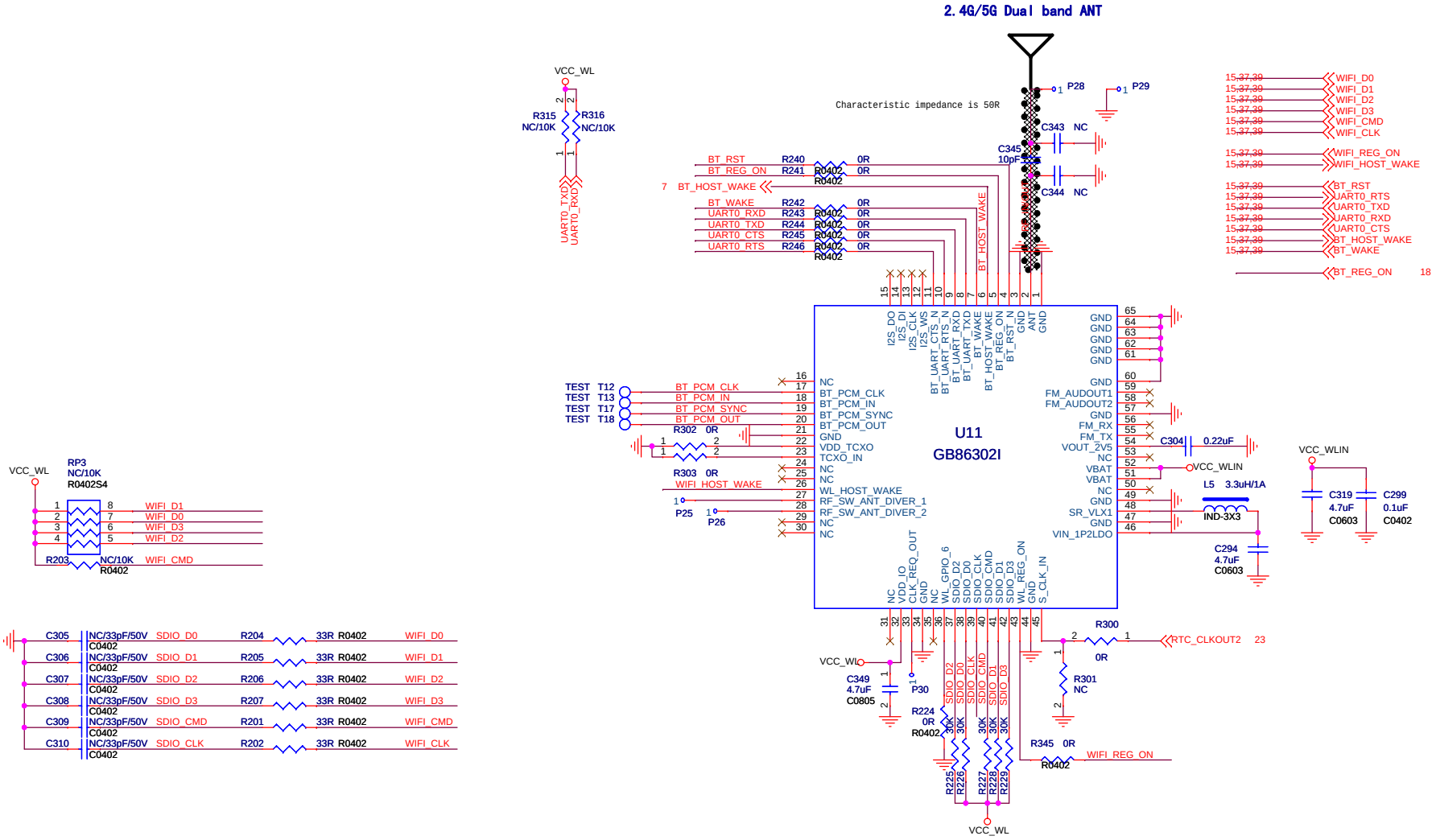
TXDT400EGPA-83V3
24PIN-0.4MM



LP045APTP052A
25PIN-0.3MM-RIGHT

Rockchip 瑞芯微电子	福州瑞芯微电子有限公司	
Title: LCM-MIPI Panel		
File: RK3288_SPA2_V1		REV:V1.0
Create Date: Tuesday, February 11, 2014		Page Num:51
Modify Date: Monday, May 15, 2017		Page Total:84

WIFI/WIFI ac/BT MODULE



C305	NC/33pF/50V C0402	SDIO_D0	R204	33R R0402	WIFI_D0
C306	NC/33pF/50V C0402	SDIO_D1	R205	33R R0402	WIFI_D1
C307	NC/33pF/50V C0402	SDIO_D2	R206	33R R0402	WIFI_D2
C308	NC/33pF/50V C0402	SDIO_D3	R207	33R R0402	WIFI_D3
C309	NC/33pF/50V C0402	SDIO_CMD	R201	33R R0402	WIFI_CMD
C310	NC/33pF/50V C0402	SDIO_CLK	R202	33R R0402	WIFI_CLK

Rockchip 瑞芯微电子	福州瑞芯微电子有限公司
Title:	WIFI ac/BT-AP6335 (option)
File: RK3288_SPA2_V1	REV:V1.0
Create Date: Tuesday, April 22, 2014	Page Num:61
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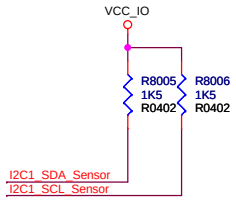
G-sensor

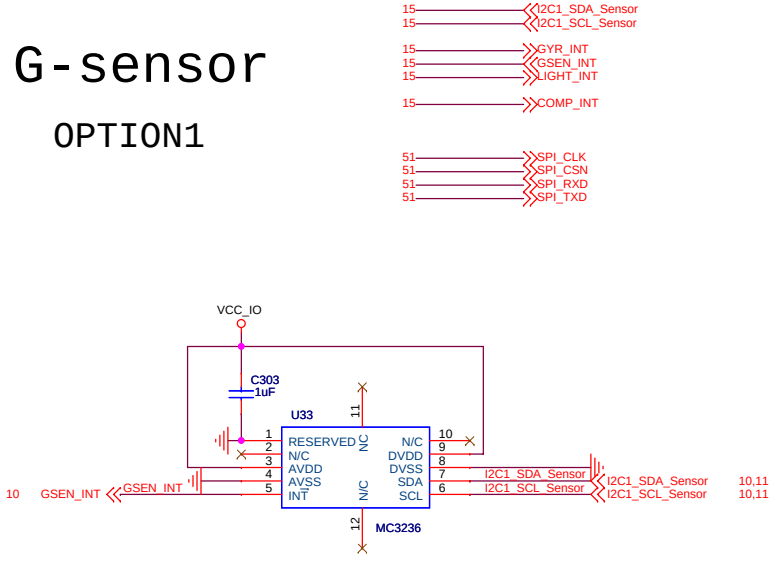
LSM303D with 3D Gsensor and E-compass

	LIS3DH	MMA8452Q	LSM303D
C8001	NC	NC	4.7uF
R8002	0ohm	NC	NC
R8001	NC	0ohm	NC
C8003	NC	0.1uF	0.22uF
R8003	NC	NC	0R
R8004	NC	NC	0R



G-sensor

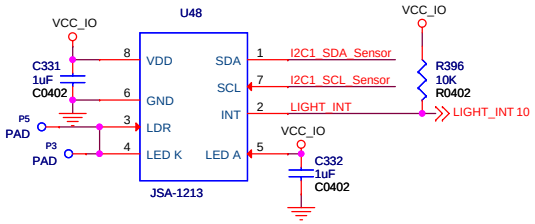
OPTION1

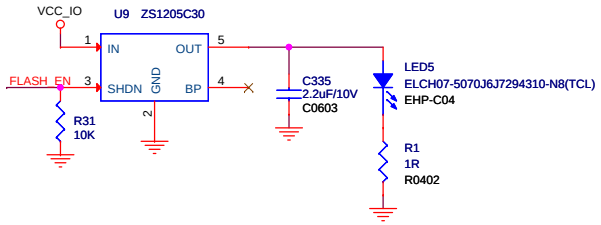


LIGHT-Sensor

OPTION1

note：Drive up to total 1.5A or 0.75A per channel。

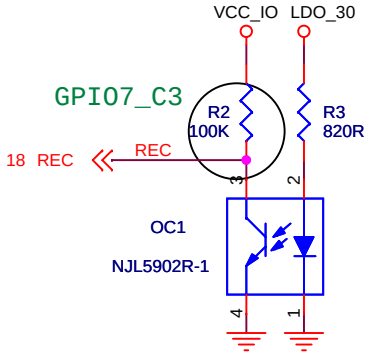




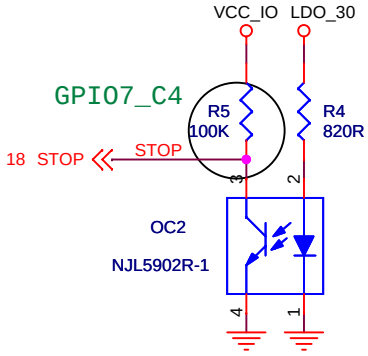
Rockchip 瑞芯微电子 福州瑞芯微电子有限公司	
Title: Sensor/VIB	
File: RK3288_SPA2_V1	REV:V1.0
Create Date: Wednesday, February 12, 2014	Page Num:80
Modify Date: Monday, May 15, 2017	Page Total:84

EFUSE Power

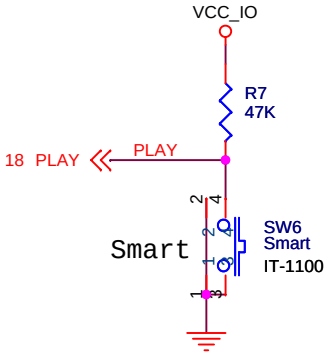
Note:Place the Component if need to write eFUSE

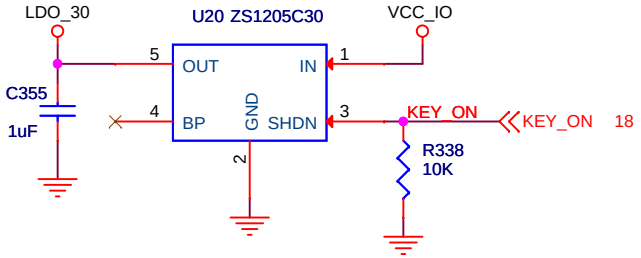


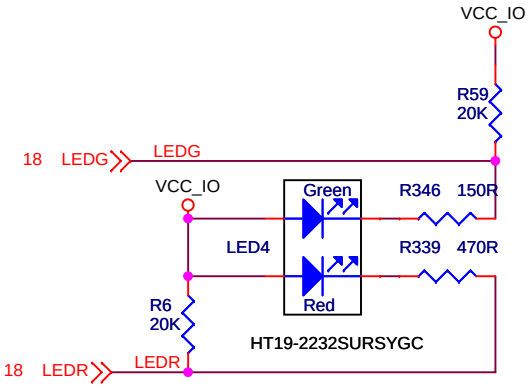
IO口	GPIO7_C3	GPIO7_C4
REC	高H	高H
STOP	低L	高H
PLAY	低L	低L
REW	高H	低L



注：电阻R2、R5要调整为100K，否则REW键功能会有异常。







Rockchip 瑞芯微电子	福州瑞芯微电子有限公司
Title:	eFUSE (option)
File: RK3288_SPA2_V1	REV:V1.0
Create Date: Wednesday, February 26, 2014	Page Num:84
Modify Date: Monday, May 15, 2017	Page Total:84