# REF Schematic for RK3568

#### **Main Functions Introduction**

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1) PMIC: RK809-5+DiscretePower
 2) RAM: DDR4 2x16Bit-----Default
 Option:LPDDR4/4x 1X32bit(200ball)
 Option:DDR3 4x16bit
 Option:DDR3 4x16bit+2x16bit ECC
 Option:DDR4 2x16bit+1x16bit ECC
 Option:LPDDR3 1x32bit(178ball)
 Option:DDR4 4x16bit
 3) ROM: eMMC-----Default
 Option: Nand Flash
 Option: SPI Flash
 4) Support: 1 x Micro SD Card3.0
 5) Support: 1 x USB3.0 OTG0 + 1 x USB3.0 HOST1 + 1 x SATA3.0 Port2
    Option: 1 x USB3.0 OTG0 + 1 x USB3.0 HOST1 + 1 x 1Lane PCIe2.0 (RC Mode)
    Option:1 x USB3.0 OTG0 + 1 x USB2.0 HOST1 + 1 x SATA3.0 Port1 + 1 x SATA3.0 Port2
    Option:1 x USB3.0 OTG0 + 1 x USB2.0 HOST1 + 1 x SATA3.0 Port1 + 1 x 1Lane PCIe2.0(RC)
    Option: 1 x USB2.0 OTG0 + 1 x SATA3.0 Port0 + 1 x USB3.0 HOST1 + 1 x SATA3.0 Port
    Option: 1 x USB2.0 OTG0 + 1 x SATA3.0 Port0 + 1 x USB3.0 HOST1 + 1 x 1Lane PCIe2.0 RC Inde
    Option:1 x USB2.0 OTG0 + 1 x SATA3.0 Port0 + 1 x USB2.0 HOST1 + 1 x SATA3.0
    Option:1 x USB2.0 OTG0 + 1 x SATA3.0 Port0 + 1 x USB2.0 HOST1 + 1 x SATA3.0
 6) Support: 1 x USB2.0 HOST2+ 1 x USB2.0 HOST3 -- -----Default
 7) Support: 4G module Via MiniPCIe2.0 Slot With PCIE2.0 and USB2.0 HOST3 function
 8) Support: 2 x 1Lane PCIe3.0 Connector (RC Mode) -----Default
    Option:1 x 2Lanes PCIe3.0 Connector (RC Mode)
    Option: 1 x 2Lanes PCIe3.0 Connector (EP Mode)
 9) Support: 1 x HDMI2.0 TX
10) Support: 1 x LCM MIPI DSI TX0 -----
    Option: 1 x LCM MIPI DSI TX1
    Option:1 x LCM LVDS TX
    Option: 1 x LCM Dual MIPI DSI TX
    Option: 1 x LCM eDP TX
11) Support: 1 x VGA OUT -----
12) Support: 1 x 4Lanes Camera MIPI CSI RX ----
    Option: 2 x 2Lanes Camera MIPI CSI RX
    Option: 1 x HDMI1.4 RX (HDMI to MIPI CSI)
13) Support: a/b/q/n/ac 2X2 SDIO WIFI5+BT5.0+PCM ------Default
    Option:a/b/g/n/ac 1X1 SDIO WIFI+BT+PCM
    Option:a/b/g/n/ac/ax 2X2 PCIe WIFI6+BT5 0+PCM
14) Support: 1 x 10/100/1000M Ethernet(RGMII1 M1) ------Default
    Option:1 x 10/100/1000M Ethernet(RMIII) 1 x 10/100M Ethernet(RMIII)
    Option: 1 x 10/100/1000M PCIe Ethernet Card or 2 x 1 (100/1000 Ethernet (QSGMII) or 1 x 10/100/1000 Ethernet (SGMII)
15) Support: 1 x Headphone output ------Default
16) Support: 1 x ECM MIC + 1 x Speaker out ------Default
    Option: 4 x MEMS MIC + 1 x Speaker out + Loopback or 2 x MEMS MIC + 1 x Speaker out + Loopback
    Option: 4 x MEMS MIC + 2 x Speaker out + Loopback
17) Support: 1 x IR Receiver ------Default
18) Support: Array Key (MENU, VOL+, VOL-, ESC), Reset, Power on/off Key
19) Support: 3 x UART + 1 x RS485 + 1 x CAN FD (Option)
20) Support: Debug UART and ARM JTAG
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	Project:	RK3568_	RK3568_AloT_PC_SCH						
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	Date:	Wednesday, June 08, 2022			Rev:	V1.1			
	Designed by:	Zhangdz	Reviewed by:	Default	Sheet:	1 of 72			

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Page 42         52.VO-LCM_MIPI_DSI_TX0/TX1         Default           Page 43         53.VO-LCM_Dual MIPI_DSI TX         Option           Page 44         54.VO-LCM_LVDS TX         Option           Page 45         56.VO-LCM_eDP TX         Option           Page 46         58.TP Connector_COF         Default           Page 47         59.VO-VGA Output(eDP To VGA)         Default           Page 48         60.WIFI/BT-SDMMC1_1T1R + UART         Option           Page 49         62.WIFI/BT-SDMMC1_2T2R + UART         Default           Page 50         64.WIFI6/BT-PCIe_2T2R + UART         Option           Page 51         65.Ethernet-FEPHY_RMIIO         Option           Page 52         67.Ethernet-GEPHY_RGMIIO         Option			
Page 43         53.VO-LCM_Dual MIPI_DSI TX         Option           Page 44         54.VO-LCM_LVDS TX         Option           Page 45         56.VO-LCM_eDP TX         Option           Page 46         58.TP Connector_COF         Default           Page 47         59.VO-VGA Output(eDP To VGA)         Default           Page 48         60.WIFI/BT-SDMMC1_1T1R + UART         Option           Page 49         62.WIFI/BT-SDMMC1_2T2R + UART         Default           Page 50         64.WIFI6/BT-PCIe_2T2R + UART         Option           Page 51         65.Ethernet-FEPHY_RMIIO         Option           Page 52         67.Ethernet-GEPHY_RGMIIO         Option			Default
Page 44         54.VO-LCM_LVDS TX         Option           Page 45         56.VO-LCM_eDP TX         Option           Page 46         58.TP Connector_COF         Default           Page 47         59.VO-VGA Output(eDP To VGA)         Default           Page 48         60.WIFI/BT-SDMMC1_1T1R + UART         Option           Page 49         62.WIFI/BT-SDMMC1_2T2R + UART         Default           Page 50         64.WIFI6/BT-PCIe_2T2R + UART         Option           Page 51         65.Ethernet-FEPHY_RMIIO         Option           Page 52         67.Ethernet-GEPHY_RGMIIO         Option			
Page 45         56.VO-LCM_eDP TX         Option           Page 46         58.TP Connector_COF         Default           Page 47         59.VO-VGA Output(eDP To VGA)         Default           Page 48         60.WIFI/BT-SDMMC1_1T1R + UART         Option           Page 49         62.WIFI/BT-SDMMC1_2T2R + UART         Default           Page 50         64.WIFI6/BT-PCIe_2T2R + UART         Option           Page 51         65.Ethernet-FEPHY_RMIIO         Option           Page 52         67.Ethernet-GEPHY_RGMIIO         Option			
Page 46         58.TP Connector_COF         Default           Page 47         59.VO-VGA Output(eDP To VGA)         Default           Page 48         60.WIFI/BT-SDMMC1_1T1R + UART         Option           Page 49         62.WIFI/BT-SDMMC1_2T2R + UART         Default           Page 50         64.WIFI6/BT-PCIe_2T2R + UART         Option           Page 51         65.Ethernet-FEPHY_RMIIO         Option           Page 52         67.Ethernet-GEPHY_RGMIIO         Option			
Page 47         59.VO-VGA Output(eDP To VGA)         Default           Page 48         60.WIFI/BT-SDMMC1_1T1R + UART         Option           Page 49         62.WIFI/BT-SDMMC1_2T2R + UART         Default           Page 50         64.WIFI6/BT-PCIe_2T2R + UART         Option           Page 51         65.Ethernet-FEPHY_RMIIO         Option           Page 52         67.Ethernet-GEPHY_RGMIIO         Option			
Page 48         60.WIFI/BT-SDMMC1_1T1R + UART         Option           Page 49         62.WIFI/BT-SDMMC1_2T2R + UART         Default           Page 50         64.WIFI6/BT-PCIe_2T2R + UART         Option           Page 51         65.Ethernet-FEPHY_RMIIO         Option           Page 52         67.Ethernet-GEPHY_RGMIIO         Option			
Page 49         62.WIFI/BT-SDMMC1_2T2R + UART         Default           Page 50         64.WIFI6/BT-PCIe_2T2R + UART         Option           Page 51         65.Ethernet-FEPHY_RMIIO         Option           Page 52         67.Ethernet-GEPHY_RGMIIO         Option			
Page 50         64.WIF16/BT-PCIe_2T2R + UART         Option           Page 51         65.Ethernet-FEPHY_RMIIO         Option           Page 52         67.Ethernet-GEPHY_RGMIIO         Option			
Page 5165.Ethernet-FEPHY_RMII0OptionPage 5267.Ethernet-GEPHY_RGMII0Option			
Page 52 67.Ethernet-GEPHY_RGMII0 Option			· · · · · · · · · · · · · · · · · · ·
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**Description** 

**Note** 

**Option** 

## Generate Bill of Materials

#### Header:

Item\tPart\tDescription\tPCB Footprint\tReference\tQuantity\tOption

### Combined property string:

 ${Item}\t{Description}\t{PCB Footprint}\t{Reference}\t{Quantity}\t{Option}$ 

## Notes

Component parameter description

1. DNP stands for component not mounted temporarily

2. If Value or option is DNP, which means the area is reserved without being mounted

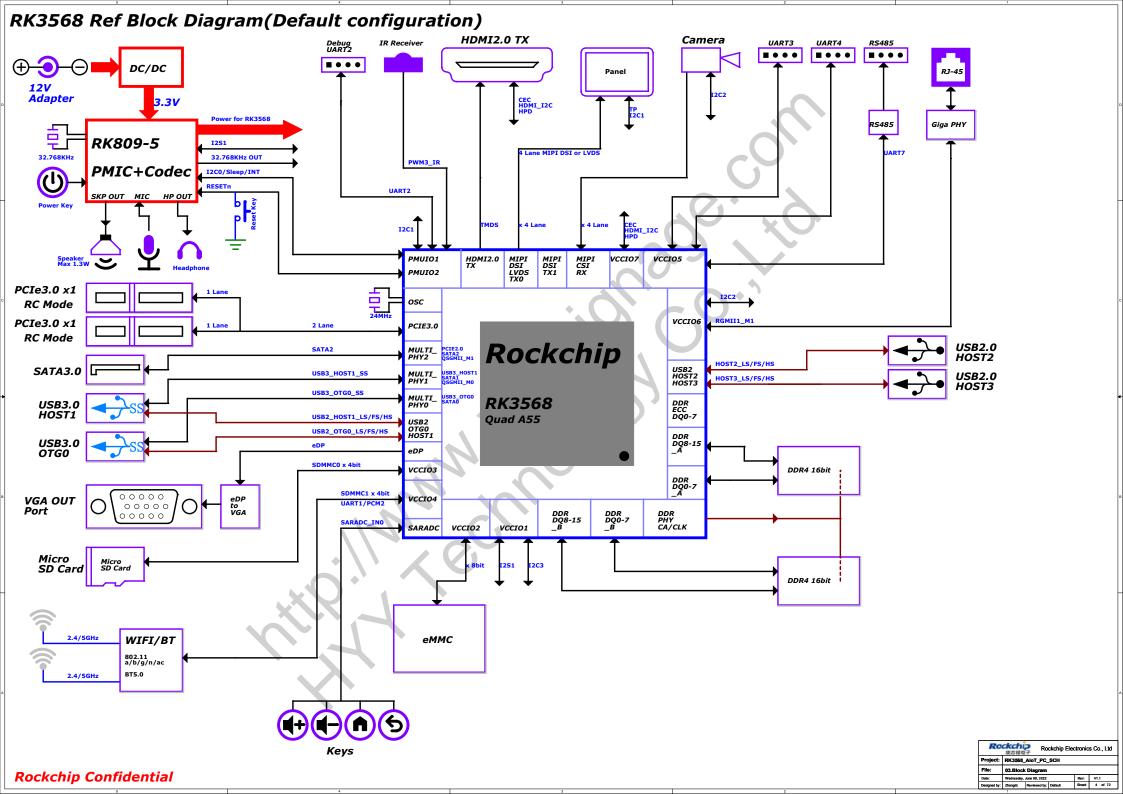
Please use our recommended components to avoid too many changes. For more informations about the second source, please refer to our AVL.

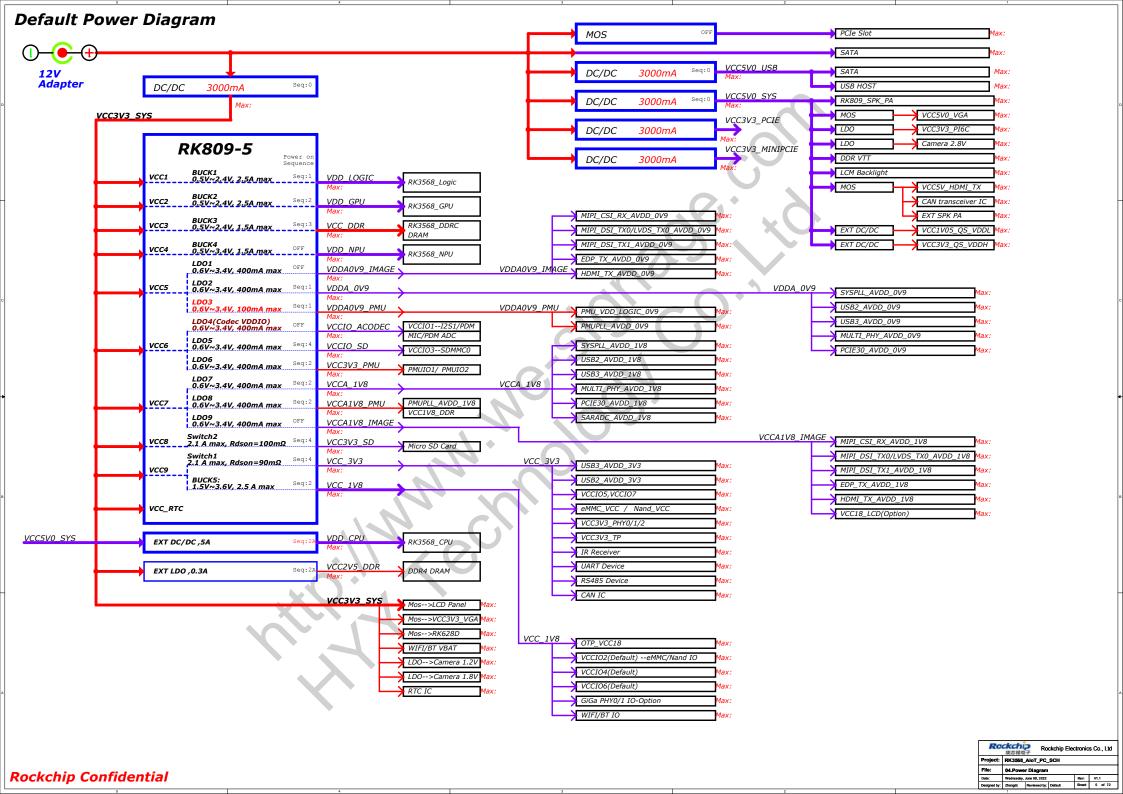
Ra	<b>ckchi</b> 瑞芯微电		Rockchip Electronics Co., Ltd					
Project:	Project: RK3568_AloT_PC_SCH							
File:	01.Index	01.Index and Notes						
Date:	Wednesday, J	une 08, 2022	022		V1.1			
Designed by:	Zhangdz	Reviewed by:	Default	Sheet:	2 of 72			

# **Revision History**

Version	Date	Ву	Change Dsecription	Approved
V1.0	2021-02-04	Zhangdz	1:Revision preliminary version	
V1.1	2021-06-11	Zhangdz	1:Change content Please Refer to: RK3568_AIoT_REF_SCH_V11_20210611_Modify_Notes	
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Project:	RK3568	_AloT_PC_	_SCH		
File:	02.Revi	sion Histor	'n		
Date: Wednesday, June 08,		June 08, 2022		Rev:	V1.1
Designed by:	Zhangdz	Reviewed by:	Default	Sheet:	3 of 72





## **Power Sequence**

VCC12V_DCIN	
vcc3v3_sys	
vcc5v0_sys	
VCC5V0_USB	
VDDA0V9_PMU	
VDDA_0V9	
VDD_LOGIC /	
VDD_GPU /	
VCCA1V8_PMU /	
VCCA_1V8 /	
vcc_1v8 /	_
VCC3V3_PMU /	
VCC2V5_DDR	
VDD_CPU	
VCC_DDR	
vcc_3v3	
VCCIO_SD	
VCC3V3_SD	
RESETn	
VDD_NPU	1/////
VDDA0V9_IMAGE	
VCCA1V8_IMAGE	1/////
VCCIO_ACODEC	1/////

## Power description

	Power Supply	PMIC Channel	Supply Limit	Power Name	Time Slot	Default Voltage	Default ON/OFF	Work Voltage	Peak Current	Sleep Curren
V	CC3V3_SYS	RK809_BUCK1	2.5A	VDD_LOGIC	Slot:1	0.9V	ON	0.9V	TBD	TBD
V	CC3V3_SYS	RK809_BUCK2	2.5A	VDD_GPU	Slot:2	0.9V	ON	DVFS	TBD	TBD
V	CC3V3_SYS	RK809_BUCK3	1.5A	VCC_DDR	Slot:3	ADJ FB=0.8V	ON	1.2V	TBD	TBD
V	CC3V3_SYS	RK809_BUCK4	1.5A	VDD_NPU	N/A	0V	QFF	(DDR4) DVFS	TBD	TBD
		RK809_LD01	0.4A	VDDA0V9_IMAGE	N/A	0)/	OFF	0.9V	TBD	TBD
v	CC3V3_SYS	RK809_LD02	0.4A	VDDA_0V9	Slot:1	0.9V	ON	0.9V	TBD	TBD
		RK809_LD03	0.1A	VDDA0V9_PMU	Slot:1	0.9V	ON	0.9V	TBD	TBD
		RK809_LD04	0.4A	VCCIO_ACODEC	N/A	ov	OFF	3.3V	TBD	TBD
V	CC3V3_SYS	RK809_LD05	0.4A	VCCIO_SD	Slot:4	3.3V	ON	3.3V or 1.8V	TBD	TBD
		RK809_LD06	0.4A	VCC3V3_PMU	Slot:2	3.3V	ON	3.3V	TBD	TBD
		RK809_LD07	0.4A	VCCA_1V8	Slot:2	1.8V	ON	1.8V	TBD	TBD
V	CC3V3_SYS	RK809_LD08	0.4A	VCCA1V8_PMU	Slot:2	1.8V	ON	1.8V	TBD	TBD
		RK809_LD09	0.4A	VCCA1V8_IMAGE	N/A	ov	OFF	1.8V	TBD	TBD
V	CC3V3_SYS	RK809_SW2	2.1A	VCC3V3_SD	Slot:4	3.3V	ON	3.3V	TBD	TBD
		100mohm RK809_SW1	2.1A	VCC_3V3	Slot:4	3.3V	ON	3.3V	TBD	TBD
"	CC3V3_SYS	90mohm RK809_BUCK5	2.5A	VCC_1V8	Slot:2	1.8V	ON	1.8V	TBD	TBD
		RK809_RESETn			Slot:4+5	• "				
V	CC12V_DCIN	EXT BUCK	3.0A	VCC3V3_SYS	Slot:0	3.3V	ON	3.3V	TBD	TBD
V	CC12V_DCIN	EXT BUCK	3.0A	VCC5V0_SYS	Slot:0	5.0V	ON	5.0V	TBD	TBD
V	CC5V0_SYS	EXT BUCK	6.0A	VDD_CPU	Slot:2A	1.025V	ON	DVFS	TBD	TBD
V	CC3V3_SYS	EXT LDO	0.3A	VCC2V5_DDR	Slot:2A	2.5V	ON	2.5V	TBD	TBD
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Project: RK3568\_AloT\_PC\_SCH
File: 05.Power Sequence
Date: Wednesday, June 05, 2022 Rev: V1.1
Department V, Zapandz Benessand br. Default Sheet, 6 of 72

## IO Power Domain Map

If IO domain power voltage is adjusted, the software DTS configuration must be updated synchronously, otherwise the IO may be damaged!

						1		
	10	Din Norm	Suppo IO Vo	ort oltage	Notes	Default IO Do	omain Voltage	•
D	IO Pin Num 3		3.3V 1.8V		Notes	Supply Power Net Name	Power Source	Voltage
	PMUIOO (PMUPLL_AVDD_1V8)	Pin Y21	×	<b>✓</b>	PMUIO0 are fixed 1.8V level mode, which cannot be configured.	VCCA1V8_PMU	VCCA1V8_PMU	1.8V
	PMUIO1	Pin Y20	<b>✓</b>	×	PMUIO1 are fixed 3.3V level mode, which cannot be configured.	VCC3V3_PMU	VCC3V3_PMU	3.3V
	PMUIO2	Pin W19	<b>✓</b>	<b>~</b>	PMUIO2 supports 1.8V or 3.3V level mode Support configurable but require that their hardware power supply voltages must be consistent with the software configuration correspondingly.[2]	VCC3V3_PMU	VCC3V3_PMU	3.3V
	VCCIO1	Pin H17	<b>✓</b>	<b>/</b>	VCCIO1 supports 1.8V or 3.3V level mode Support configurable but require that their hardware power supply voltages must be consistent with the software configuration correspondingly.[2]	VCCIO_ACODEC	VCCIO_ACODEC	3.3V
	VCCIO2	Pin H18	<b>✓</b>	<b>~</b>	VCCIO2 supports 1.8V or 3.3V level mode Default is configured by hardware,namely PIN "FLASH_VOL_SEL" state determines which mode to work in.[1][2]	VCCIO_FLASH	VCC_1V8	1.8V
С	VCCI03	Pin L22	<b>✓</b>	<b>/</b>	VCCIO3 supports 1.8V or 3.3V level mode Support configurable but require that their hardware power supply voltages must be consistent with the software configuration correspondingly.[2][3]	VCCIO_SD	VCCIO_SD	3.3V
	VCCIO4	Pin J21	<b>✓</b>	<b>~</b>	VCCIO4 supports 1.8V or 3.3V level mode Support configurable but require that their hardware power supply voltages must be consistent with the software configuration correspondingly.[2]	VCCIO4	VCC_1V8	1.8V
•	VCCIO5	Pin V10 Pin V11	<b>✓</b>	<b>~</b>	VCCIO5 supports 1.8V or 3.3V level mode Support configurable but require that their hardware power supply voltages must be consistent with the software configuration correspondingly.[2]	VCC_3V3	VCC_3V3	3.3V
	VCCIO6	Pin R9 Pin U9	<b>✓</b>	<b>✓</b>	VCCIO6 supports 1.8V or 3.3V level mode Support configurable but require that their hardware power supply voltages must be consistent with the software configuration correspondingly.[2]	VCCIO6	VCC_1V8	1.8V
В	VCCIO7	Pin V12	<b>✓</b>	<b>✓</b>	VCCIO7 supports 1.8V or 3.3V level mode Support configurable but require that their hardware power supply voltages must be consistent with the software configuration correspondingly.[2]	VCC_3V3	VCC_3V3	3.3V

For example, the VCCIO4 hardware has been modified to 3.3V power supply, and the corresponding DTS must be modified to 3.3V configuration, otherwise the IO of VCCIO4 will be damaged.

If a board needs to be compatible with two voltage choices, recommended to enable BOM ID

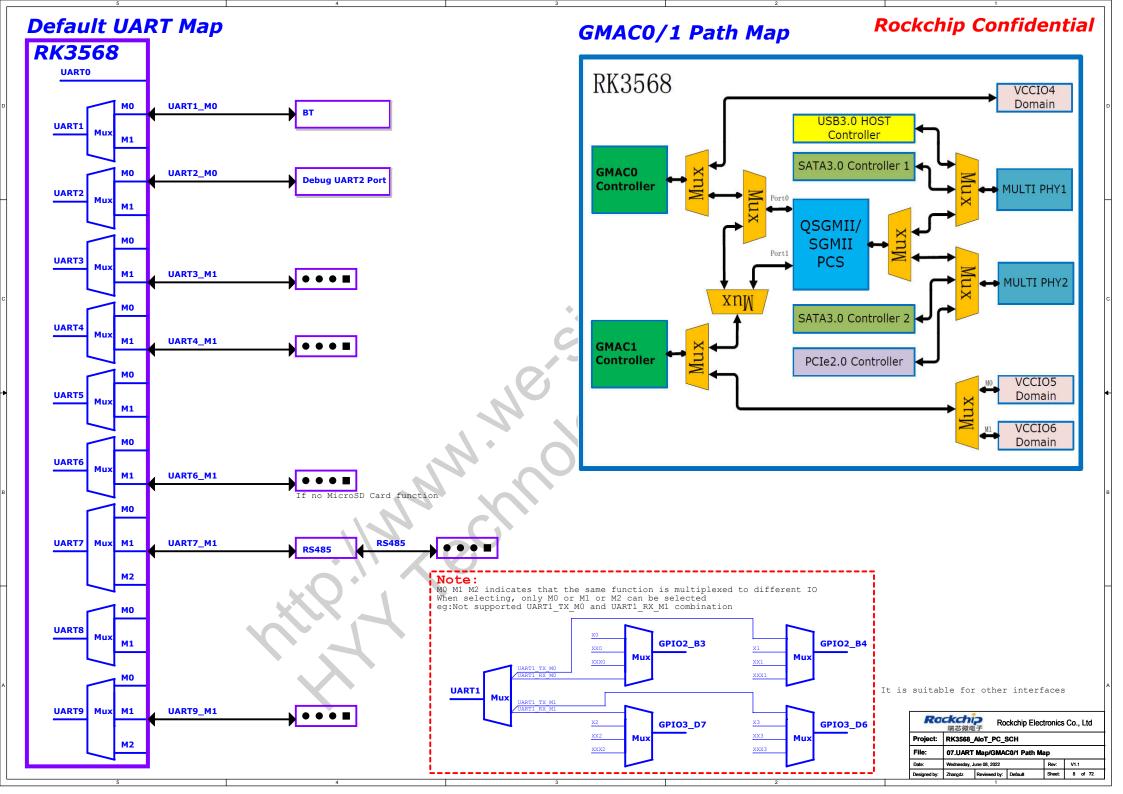
#### Notes

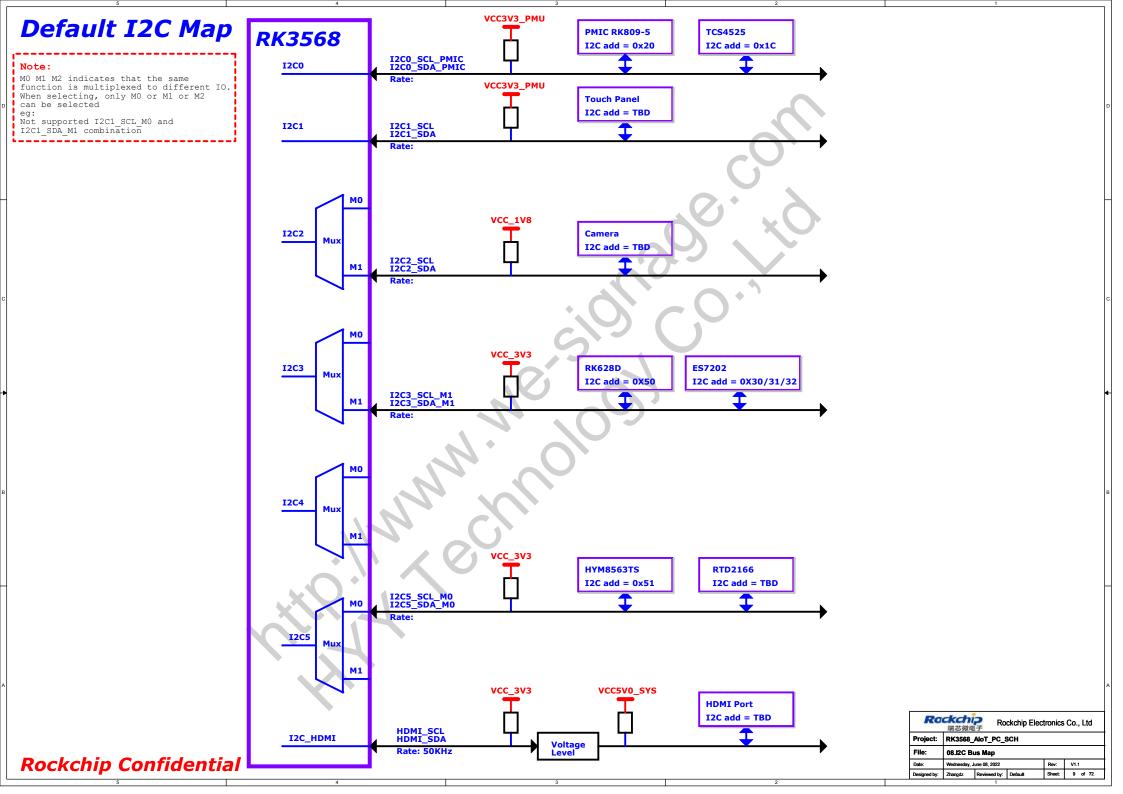
[1]:When VCCIO2 voltage is connected to 1.8V, FLASH\_VOL\_SEL must be high
When VCCIO2 voltage is connected to 3.3V, FLASH\_VOL\_SEL must be low
If VCCIO2 power supply voltage and FLASH\_VOL\_SEL fails to meet the above relationship, its function will be abnormally(for example, it cannot be started normally) or IO will be damaged.

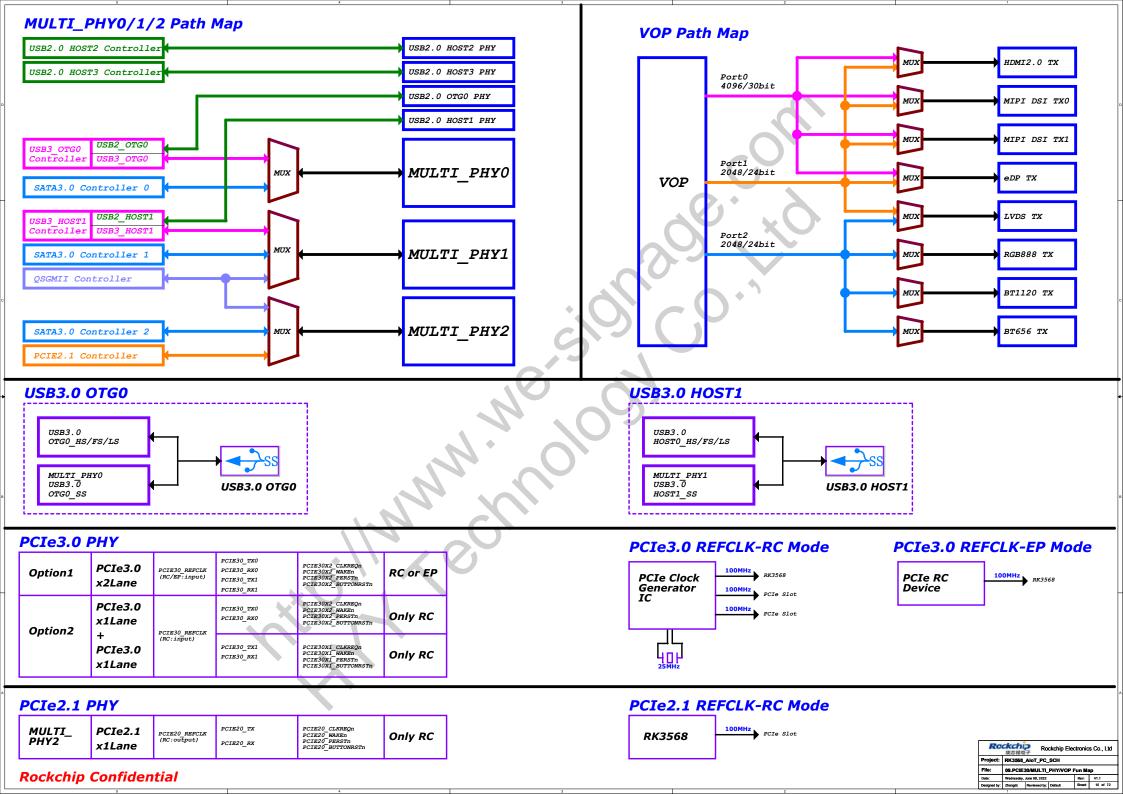
[2]:When the IO domain power supply voltage is 1.8V, the IO domain voltage configuration in DTS must be set to 1.8V mode. If it is misconfigured to 3.3V mode, the IO function of this power domain will be abnormally; When the IO domain power supply voltage is 3.3V, the IO domain voltage configuration in DTS must be set to 3.3V mode. If it is misconfigured to 1.8V mode, the IO in this power domain will be in overvoltage state, and the IO will be damaged after long-term operation.

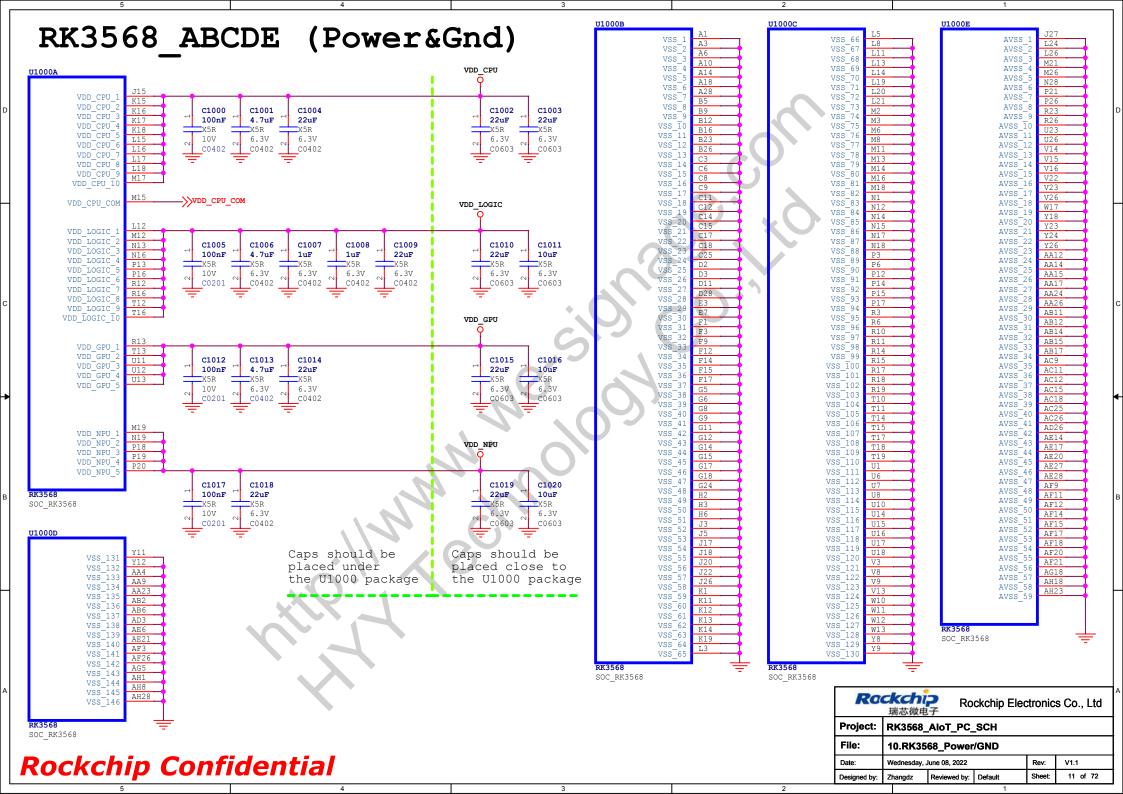
[3]:When VCCIO3 IO domain is assigned as SD card function,:
If SD3.0 mode is to be supported, VCCIO3 power supply voltage must be support configurable, 3.3V in SD2.0 mode and 1.8V in SD3.0 mode.
If only SD2.0 mode is supported (SD3.0 card only works in SD2.0 mode), VCCIO3 only needs fixed power supply of 3.3V.
When VCCIO3 IO domain is assigned as other function,:
Such as uart5 and uart6, then note [2] should be followed

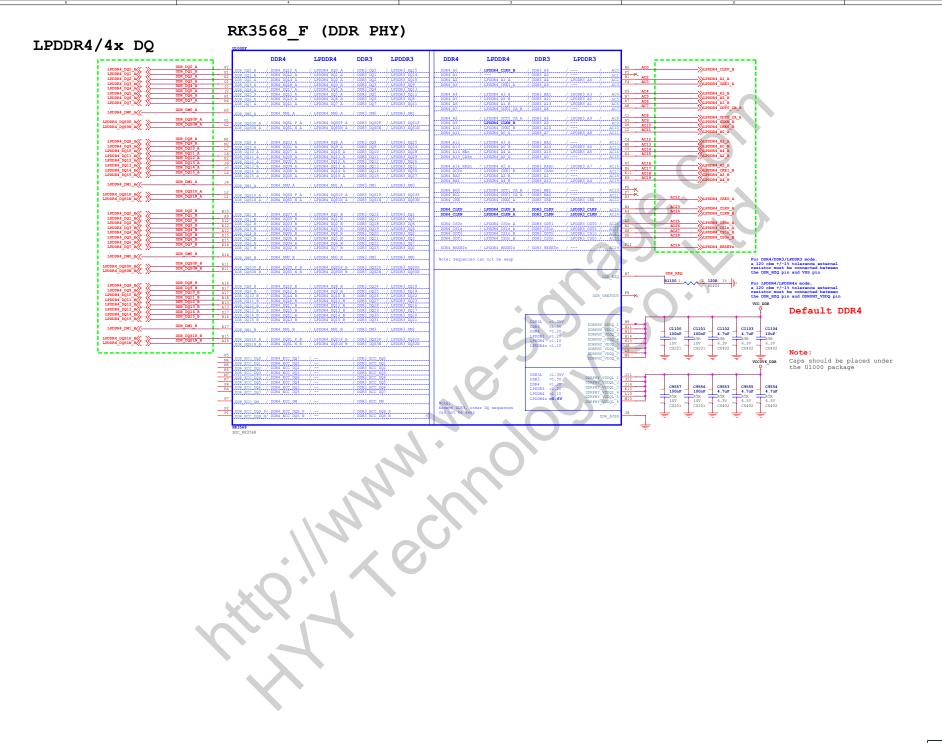
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Project:	RK3568_	ВСН			
File:	06.IO Por	wer Domai	п Мар		
Date:	Wednesday, J	une 08, 2022		Rev:	V1.1
Designed by:	Zhangdz	Reviewed by:	Default	Sheet:	7 of 72

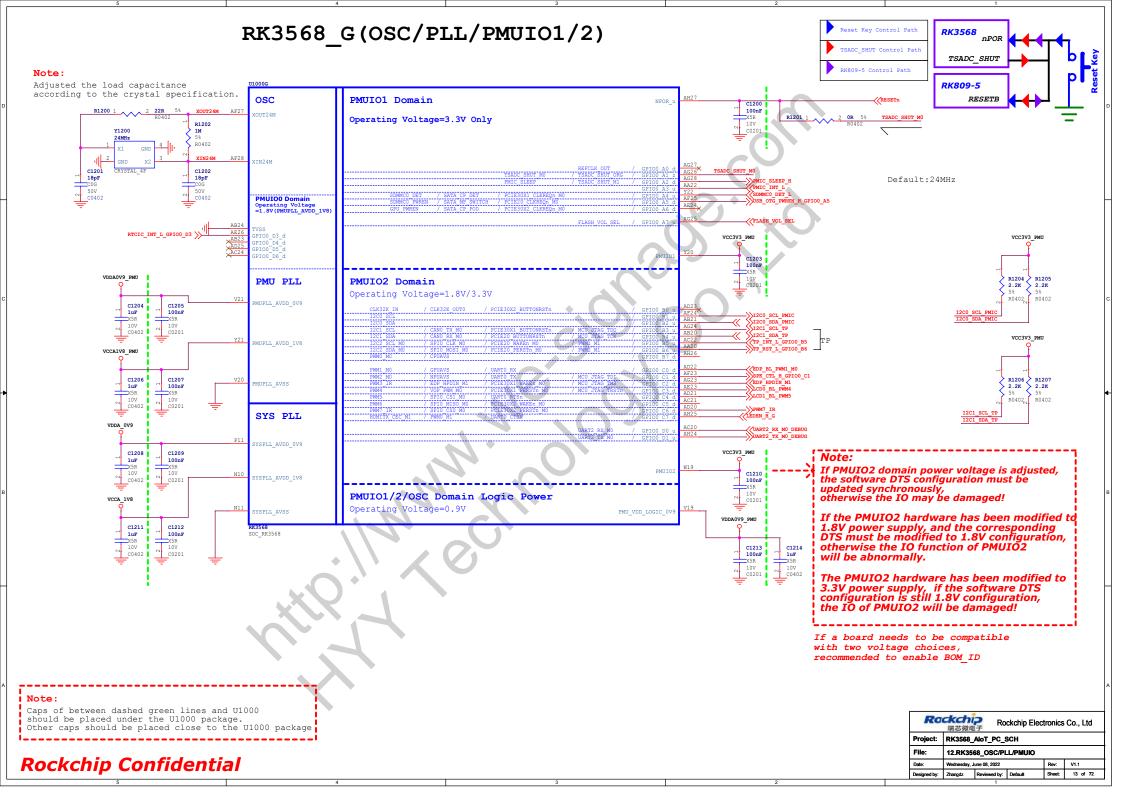


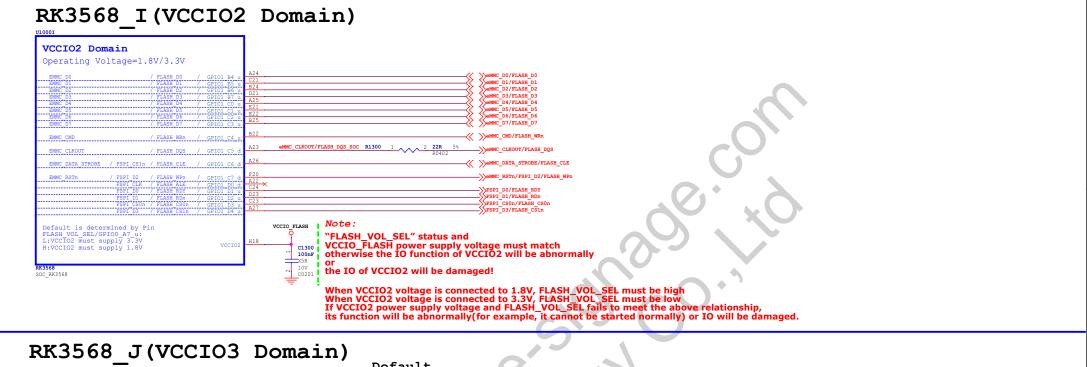


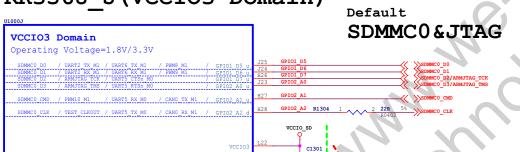












#### Note:

SOC\_RK3568

Caps of between dashed green lines and U1000 should be placed under the U1000 package

Note:

100nF

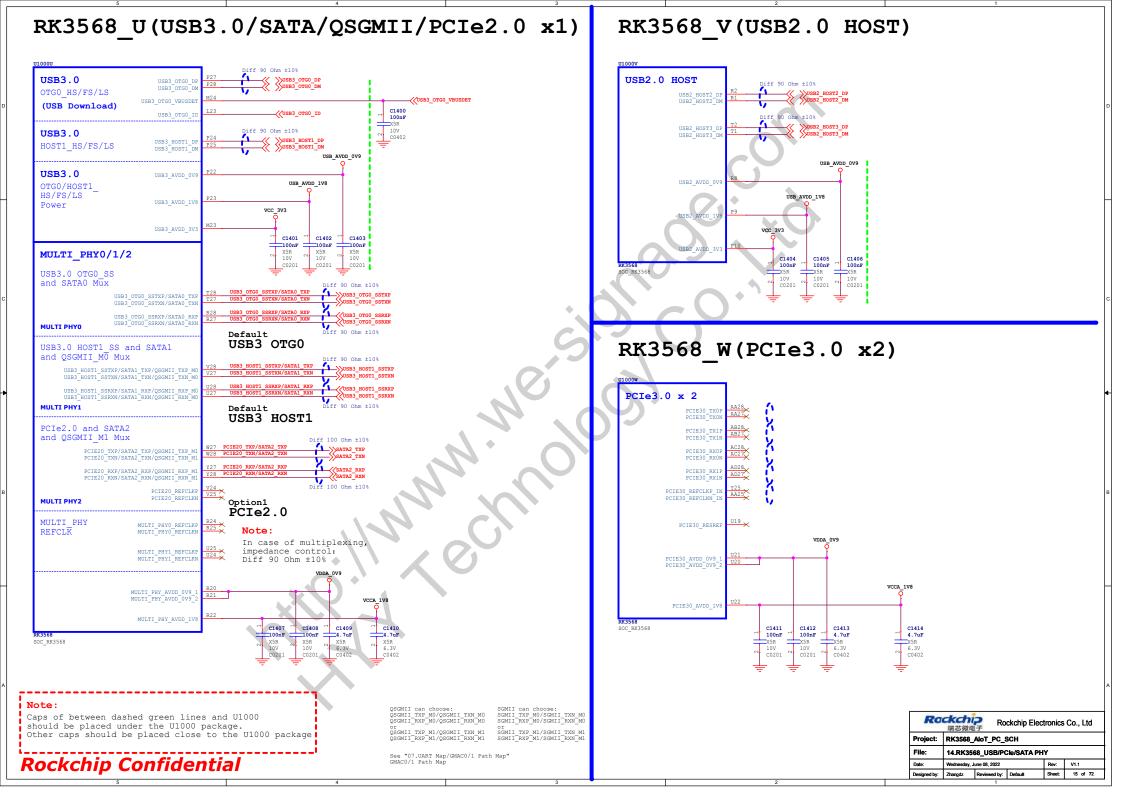
If VCCIO3 domain power voltage is adjusted, the software DTS configuration must be updated synchronously, otherwise the IO may be damaged!

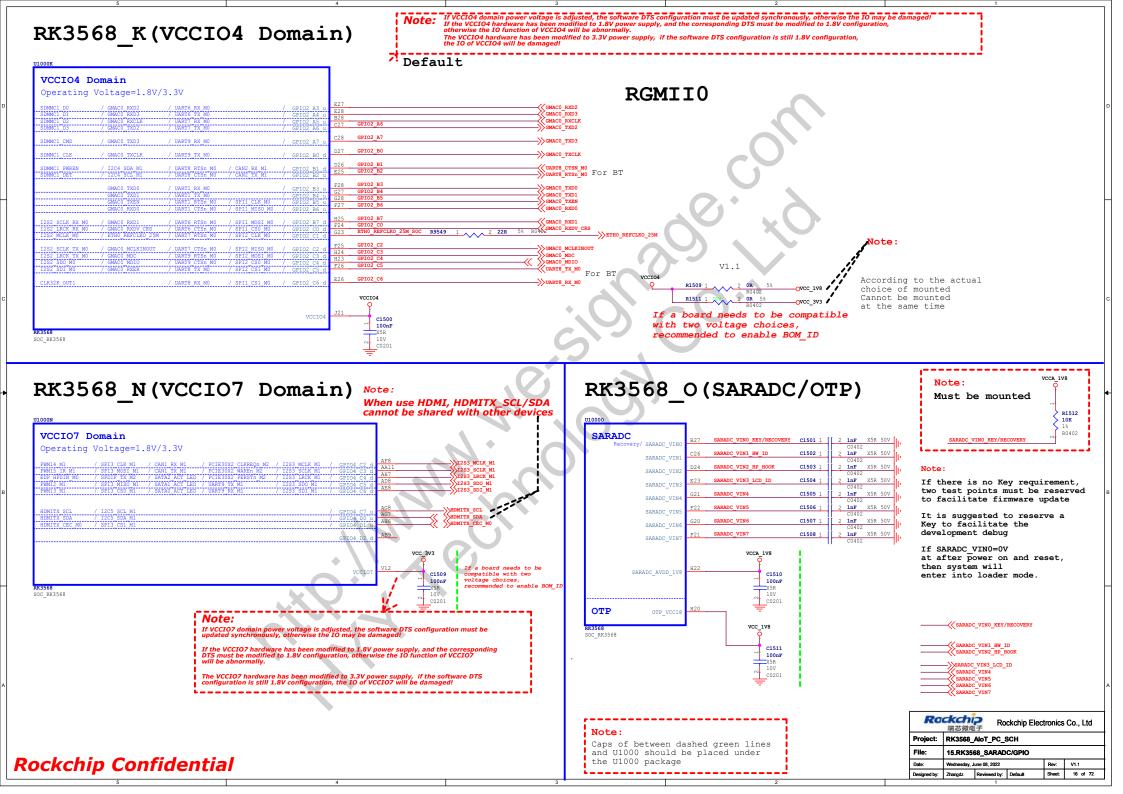
If the VCCIO3 hardware has been modified to 1.8V power supply, and the corresponding DTS must be modified to 1.8V configuration, otherwise the IO function of VCCIO3 will be abnormally.

The VCCIO3 hardware has been modified to 3.3V power supply, if the software DTS configuration is still 1.8V configuration, the IO of VCCIO3 will be damaged!

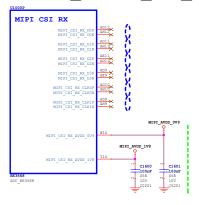
If a board needs to be compatible with two voltage choices, recommended to enable BOM ID

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Project:	RK3568_AloT_PC_SCH					
File:	13.RK35	68_Flash/9	D Controll	er		
Date:	Wednesday, June 08, 2022			Rev:	V1.1	
Designed by:	Zhangdz	Reviewed by:	Default	Sheet:	14 of 72	



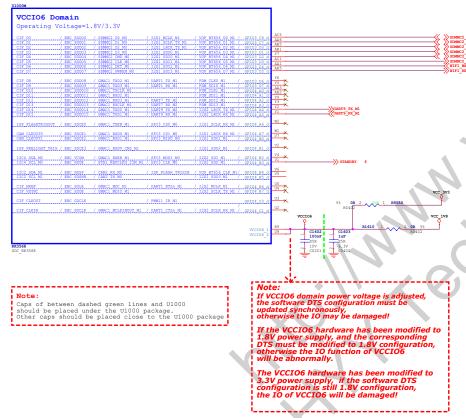


#### RK3568 P(MIPI CSI RX)





#### RK3568 M(VCCIO6 Domain)



According to the actual choice of mounted Cannot be mounted at the same time

#### Select the voltage according to the application

If the IO domain is to be used as FEPHY, since some FEPHY only support 3.3V IO, it is recommended to reallocate GPIO to reduce the cost of level conversion

If a board needs to be compatible with two voltage choices, recommended to enable BOM\_ID

Mode	16bit	12bit	10bit	8bit
CIF_D0	D0			
CIF_D1	D1			
CIF_D2	D2			
CIF_D3	D3			
CIF_D4	D4	DO		
CIF_D5	D5	D1		
CIF_D6	D6	D2	D0	
CIF_D7	D7	D3	D1	
CIF_D8	D8	D4	D2	D0
CIF_D9	D9	D5	D3	D1
CIF_D10	D10	D6	D4	D2
CIF_D11	D11	D7	D5	D3
CIF_D12	D12	D8	D6	D4
CIF_D13	D13	D9	D7	D5
CIF_D14	D14	D10	D8	D6
CIF_D15	D15	D11	D9	D7

Support BT601 YCbCr 422 8bit input Support BT656 YCbCr 422 8bit input, single/dual-edge sampling

BT1120 16bit Mode: Default: D0-D7 <--> Y0-Y7 , D8-D15 <--> C0-C7 Swap ON: D0-D7 <--> C0-C7 , D8-D15 <--> Y0-Y7

<b>GMAC</b>	Direction	GEPHY	GMAC .	Direction	FEPHY
GMACx_TXD0	>	PHYx_TXD0	GMACx_TXD0	>	PHYx_TXD0
GMACx_TXD1	>	PHYx_TXD1	GMACx_TXD1	>	PHYx_TXD1
GMACx_TXD2	>	PHYx_TXD2			
GMACx_TXD3	>	PHYx_TXD3			
GMACx_TXEN	>	PHYx_TXEN	GMACx_TXEN	>	PHYx_TXEN
GMACx_TXCLK	>	PHYx_TXCLK			
GMACx_RXD0	<	PHYx_RXD0	GMACx_RXD0	<	PHYx_RXD0
GMACx_RXD1	<	PHYx_RXD1	GMACx_RXD1	<	PHYx_RXD1
GMACx_RXD2	<	PHYx_RXD2			
GMACx_RXD3	<	PHYx_RXD3			
GMACx_RXDV	<	PHYx_RXDV	GMACx_RXDV	<	PHYx_CRS_DV
GMACx_RXCLK	<	PHYx_RXCLK			
GMACx_RXER			GMACx_RXER	<	PHYx_RXER
GMACx_MDC	>	PHYx_MDC	GMACx_MDC	>	PHYx_MDC
GMACx_MDIO	<>	PHYx_MDIO	GMACx_MDIO	<>	PHYx_MDIO
ETHx_REFCLKO_25M	>	PHYx OSC	ETHx_REFCLKO_25M	>	PHYx OSC
GMACx_MCLKINOUT	<	PHYx_CLKOUT125(Option)	GMACx_MCLKINOUT	<>	PHYx_TXC
GPIO	>	PHYx_RSTn	GPIO	>	PHYx_RSTn
GPIO	<	PHYx INT/PMEB	GPIO	<	PHYx INT/PMEB

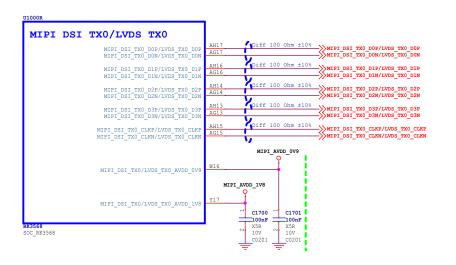
#### Rockchip Electronics Co., Ltd Project: RK3568\_AloT\_PC\_SCH 16.RK3568\_VI Interface

Camera MCLK can select the following clock:

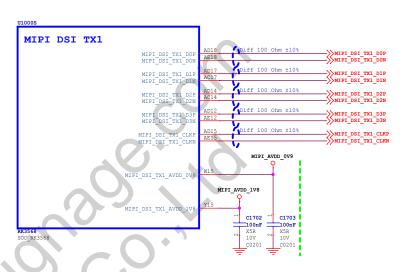
- 1:CAM CLKOUTO
- 2:CAM\_CLKOUT1 3:CIF\_CLKOUT
- 4:REFCLK OUT (24MHz)

Attention to the voltage matching

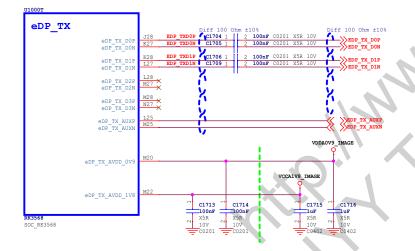
## RK3568\_R (MIPI\_DSI\_TX0/LVDS\_TX0)



## RK3568\_S(MIPI\_DSI\_TX1)



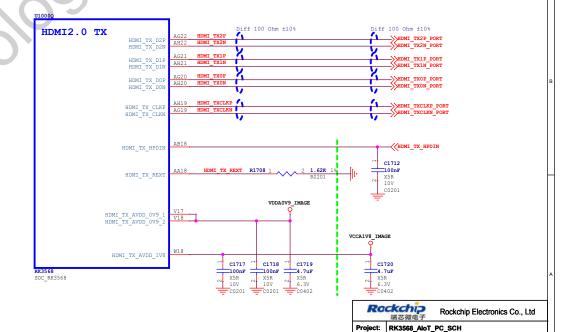
## RK3568\_T(eDP TX)



#### Note: Caps of between dashed green lines and U1000 should be placed under the U1000 package. Other caps should be placed close to the U1000 package

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## RK3568\_Q(HDMI2.0 TX)



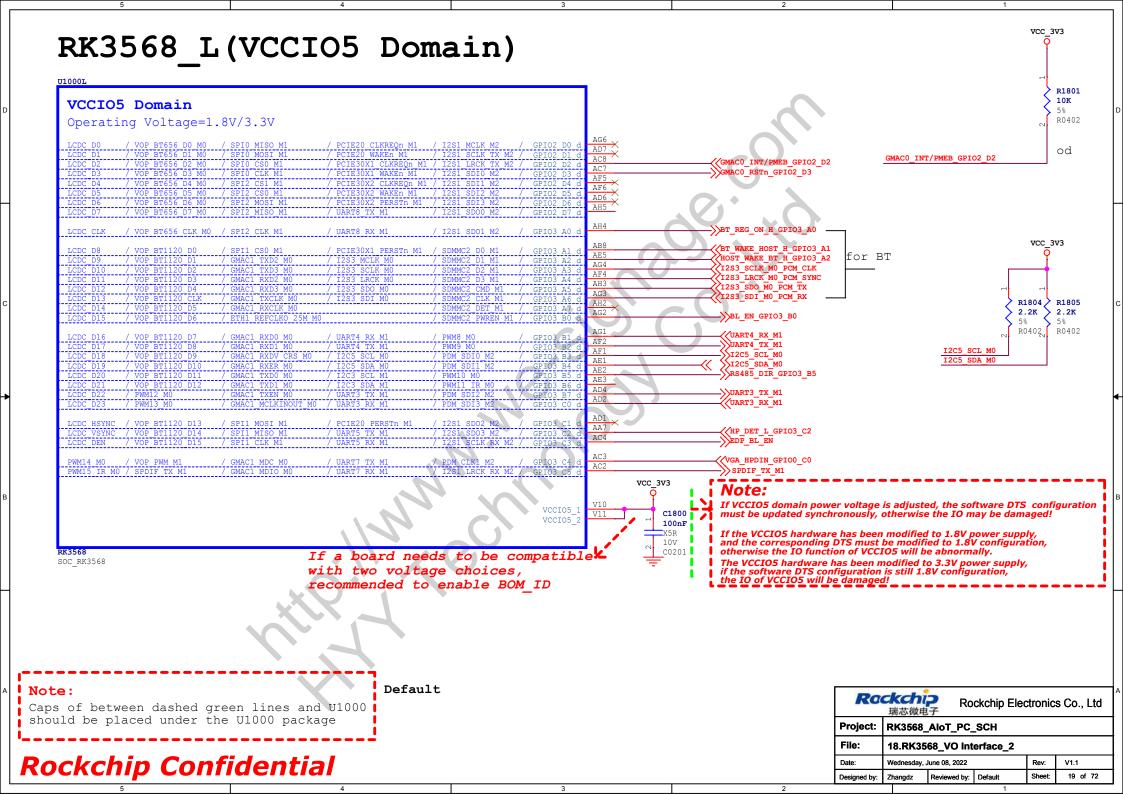
17.RK3568 VO Interface 1

Zhangdz Reviewed by: Default

Rev: V1.1

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Wednesday, June 08, 2022



# RK3568 H (VCCIO1 Domain)



SOC RK3568

R1900 > R1901 2.2K > 2.2K 5% R0402 R0402 2 22R 5% R0402 >> 12s1\_MCLK\_M0\_RK809 I2S1 MCLK MO SOC 12S1 SDO0 M0 RK809 PDM SDI3 MO ADC E20 GPIO1 B1 WORK LED GPIO1 B1 A21 PDM SDI1 MO ADC  $12\overline{51}$  SDIO  $\overline{M0}$ /PDM SDIO  $\overline{M0}$  RK809 Default 3.3V If a board needs to be compatible with two voltage choices, recommended to enable BOM ID Note:

VCCIO ACODEC

If VCCIO1 domain power voltage is adjusted, the software DTS configuration must be updated synchronously, otherwise the IO may be damaged!

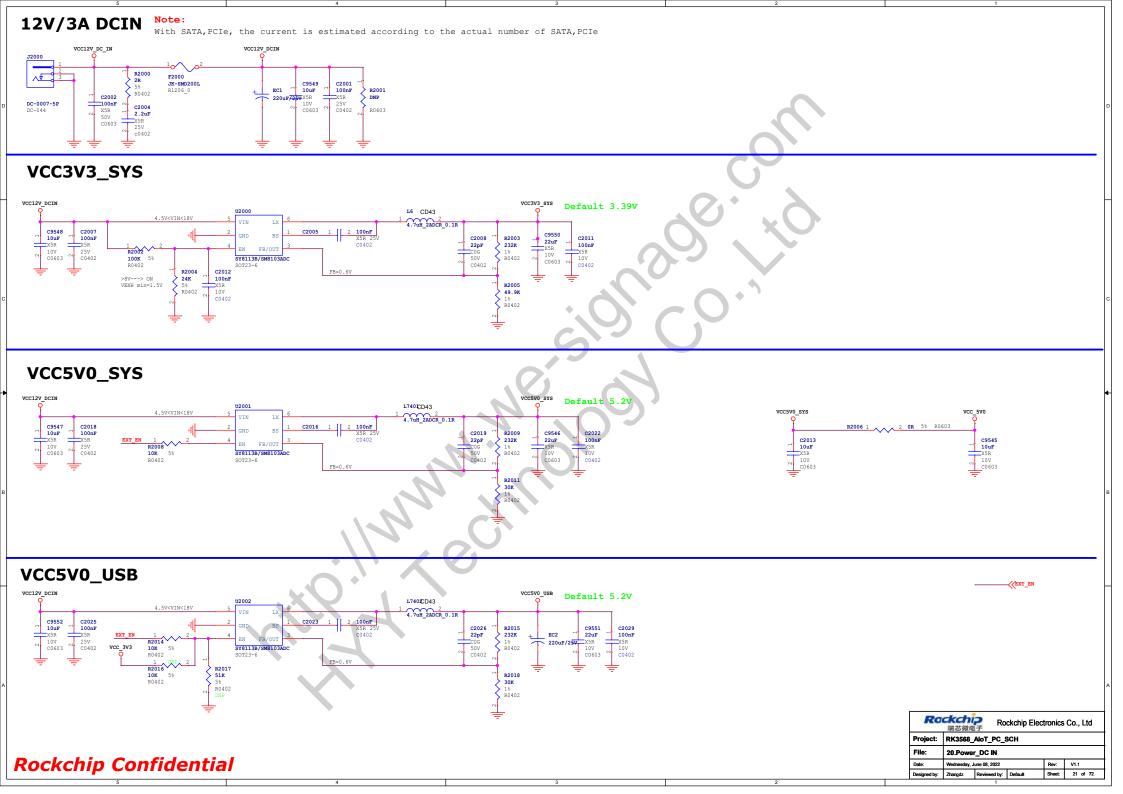
If the VCCIO1 hardware has been modified to 1.8V power supply, and the corresponding DTS must be modified to 1.8V configuration, otherwise the IO function of VCCIO1 will be abnormally.

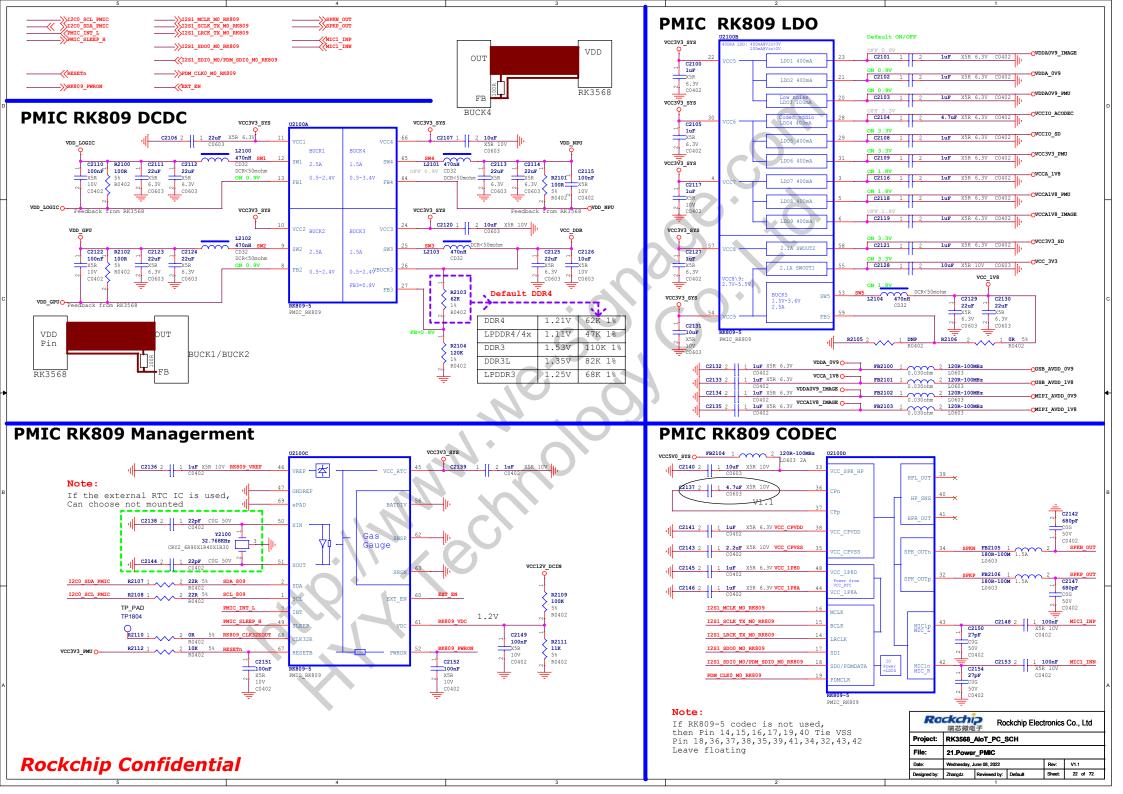
The VCCIO1 hardware has been modified to 3.3V power supply, if the software DTS configuration is still 1.8V configuration, the IO of VCCIO1 will be damaged!

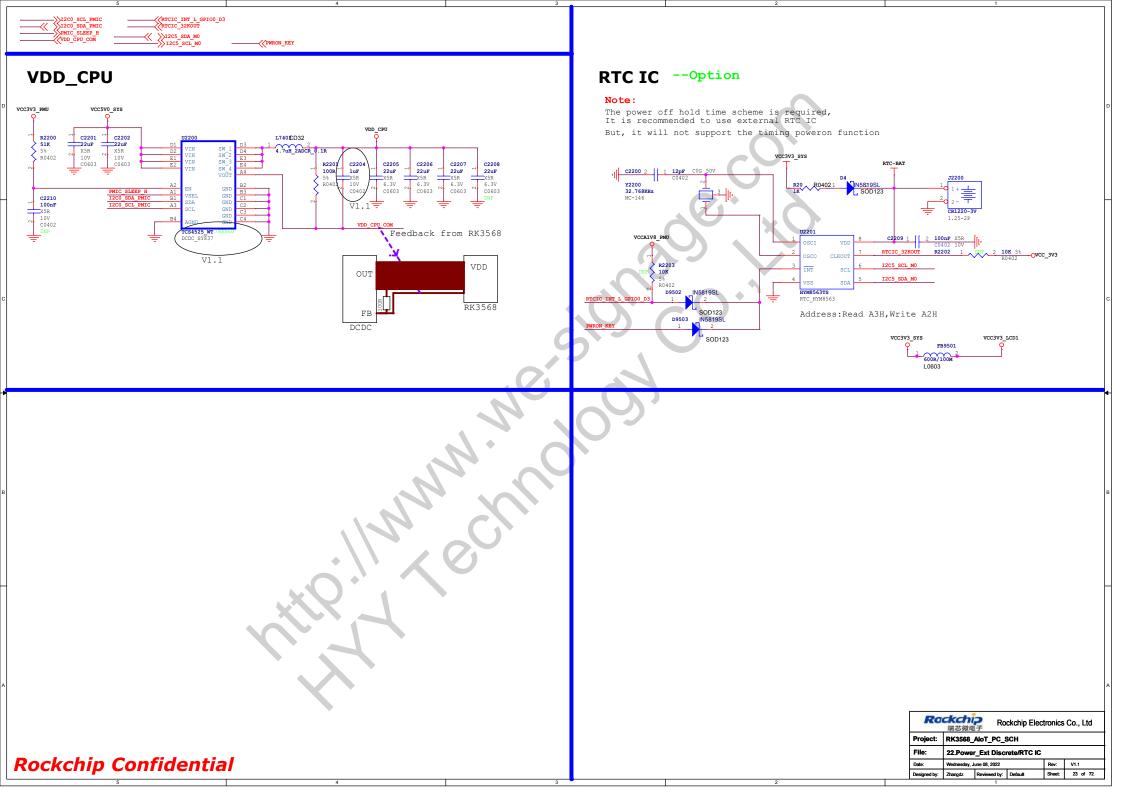
Caps of between dashed green lines and U1000 should be placed under the U1000 package

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Rackchip Rockchip Electronics Co., Ltd 瑞芯微电子 Project: RK3568 AIoT PC SCH File: 19.RK3568 Audio Interface Wednesday, June 08, 2022 Designed by: Zhangdz Reviewed by: Default 20 of 72







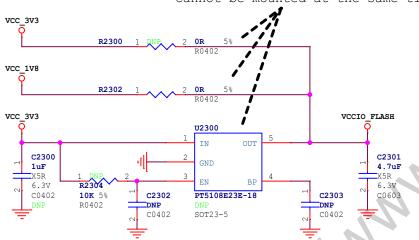
FLASH	WOT.	CET.
 CE THOU	_^01	SEL

## Flash Power Manage

	VCCIO2 domain voltage: Recommend voltage value (VCCIO_FLASH)	FLASH_VOL_SEL state decided to VCCIO2 domain IO driven by default
eMMC	1.8V	FLASH_VOL_SEL> Logic=H
Nand flash	Default 3.3V, Optional 1.8V	FLASH_VOL_SEL> Logic=L(Default)
SPI flash	Default 1.8V, Optional 3.3V	FLASH_VOL_SEL> Logic=H(Default)

#### Note:

According to the actual choice of mounted Cannot be mounted at the same time





Note:

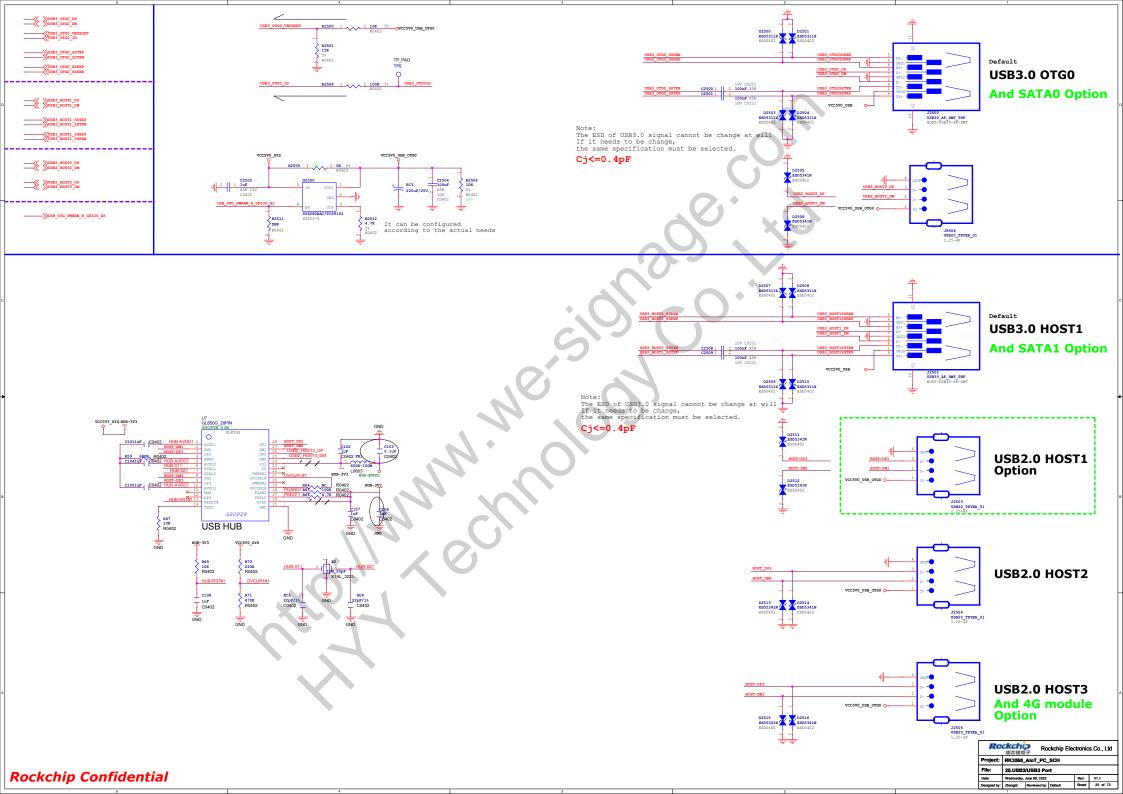
FLASH VOL SEL state decided

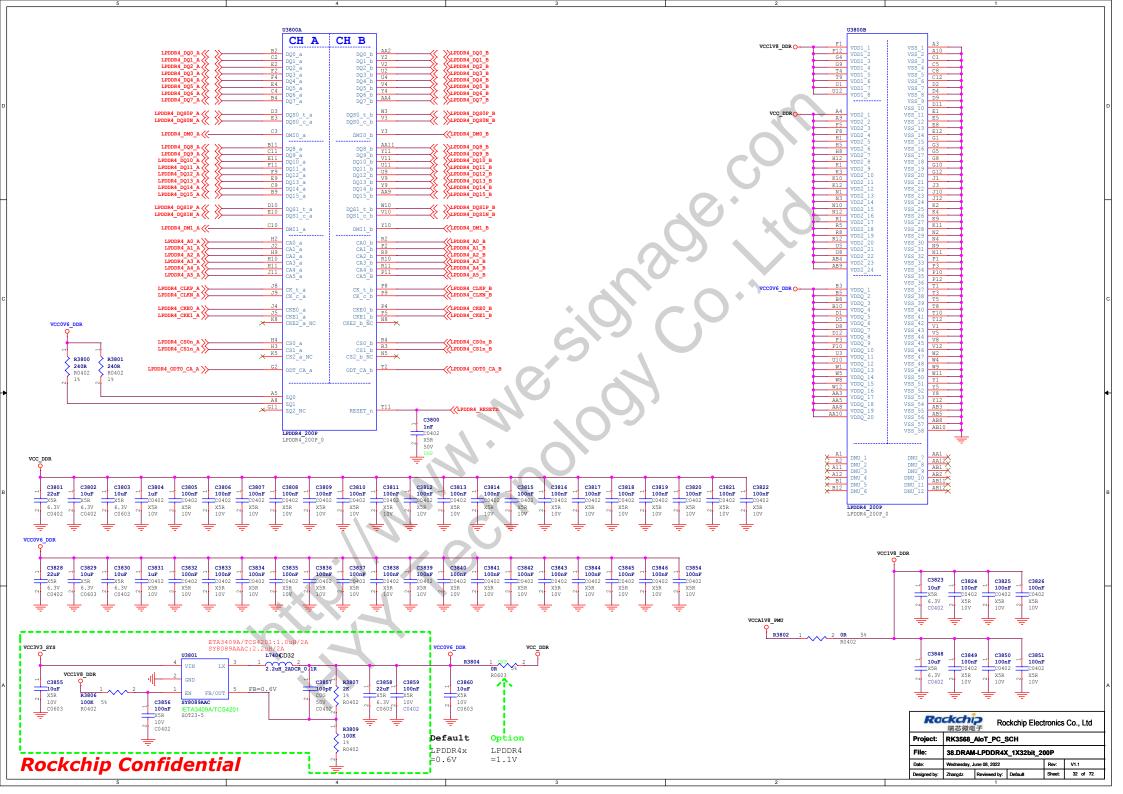
to VCCIO2 domain IO driven by default

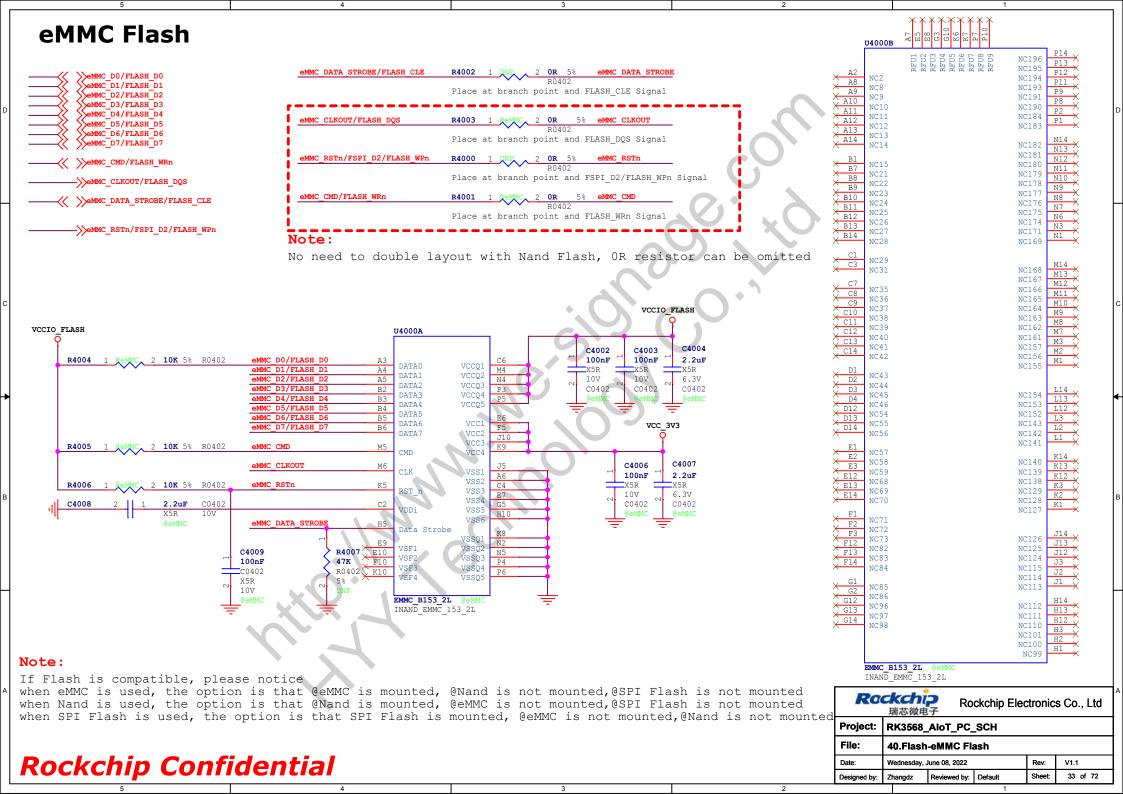
Logic=L: 3.3V IO driven Logic=H: 1.8V IO driven

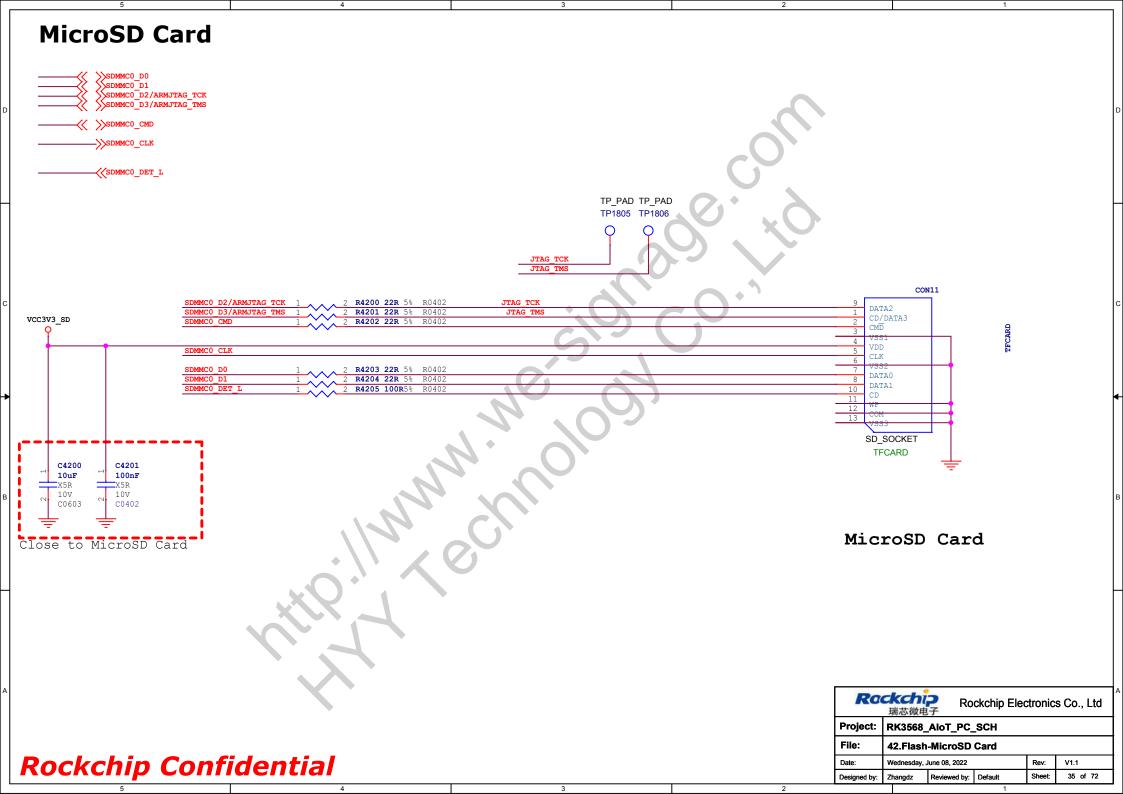
When VCCIO2 voltage is connected to 1.8V, FLASH\_VOL\_SEL must be high When VCCIO2 voltage is connected to 3.3V, FLASH\_VOL\_SEL must be low If VCCIO2 power supply voltage and FLASH\_VOL\_SEL fails to meet the above relationship, its function will be abnormally (for example, it cannot be started normally) or IO will be damaged.

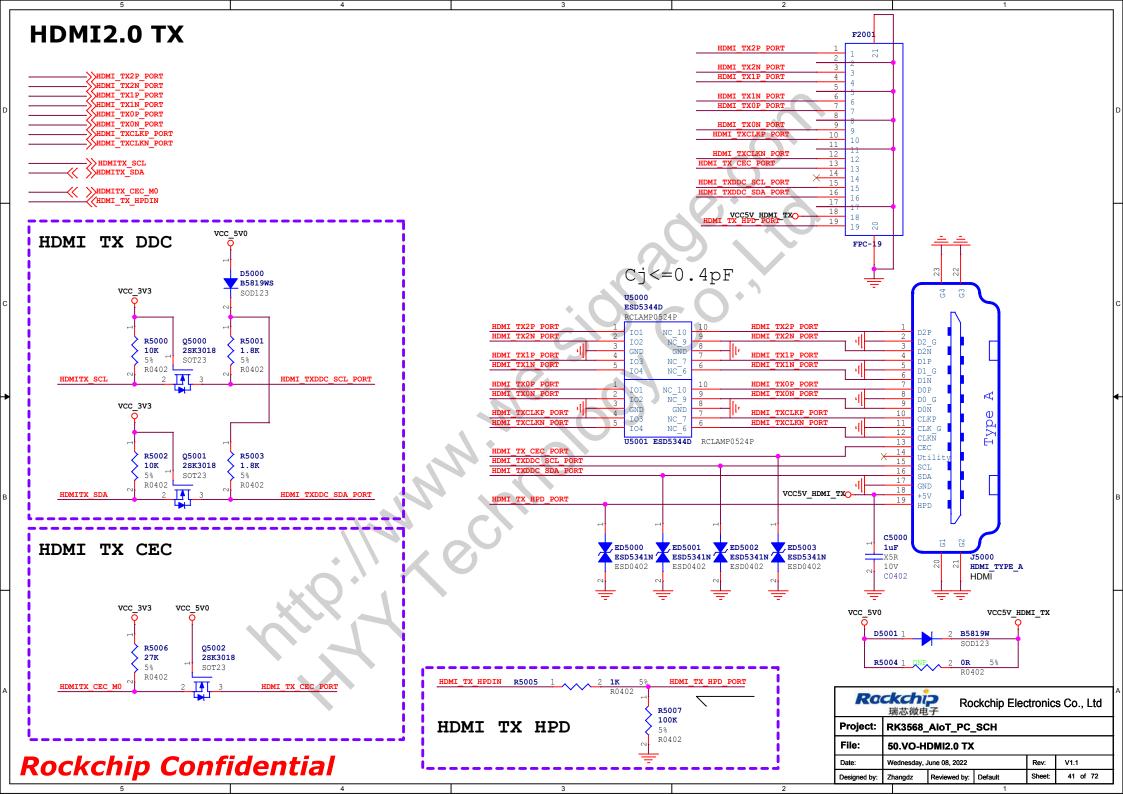
Rockchip Electronics Co., Ltd 瑞芯微电子					
Project:	RK3568_AloT_PC_SCH				
File: 23.Power_Flash Power Manage					
Date:	Wednesday,	Vednesday, June 08, 2022		Rev:	V1.1
			"	Chast	24 -4 72

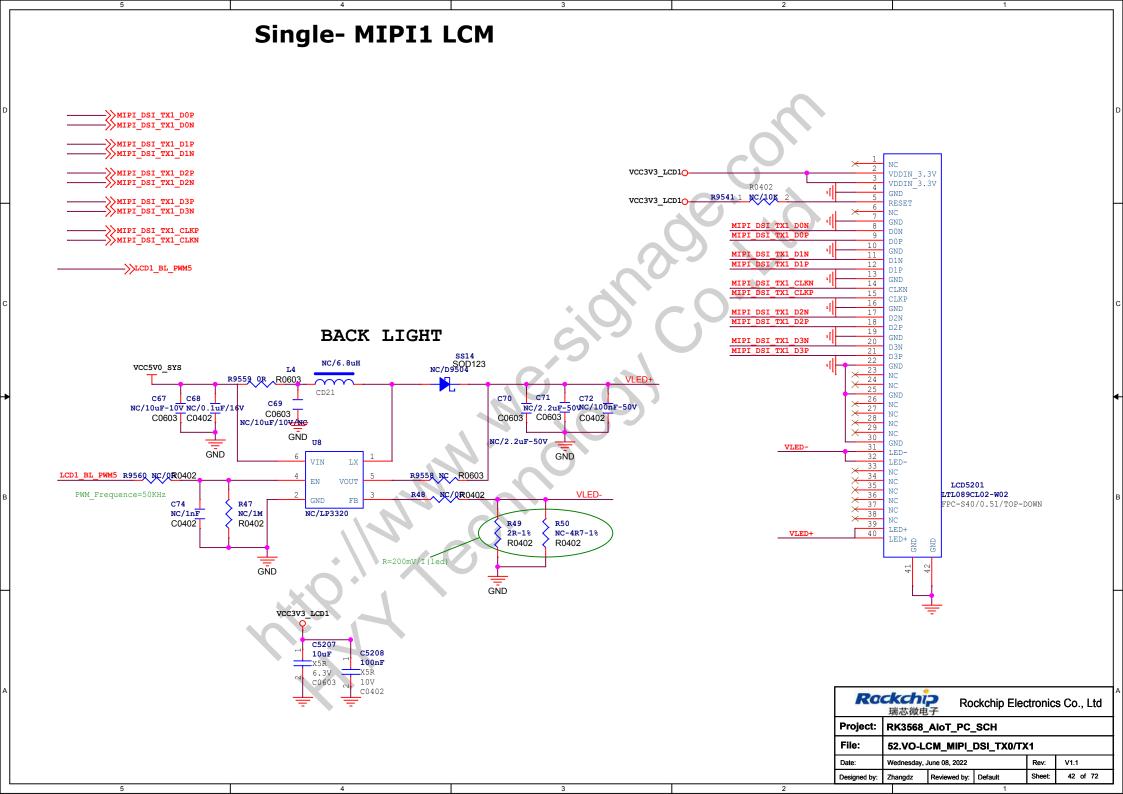


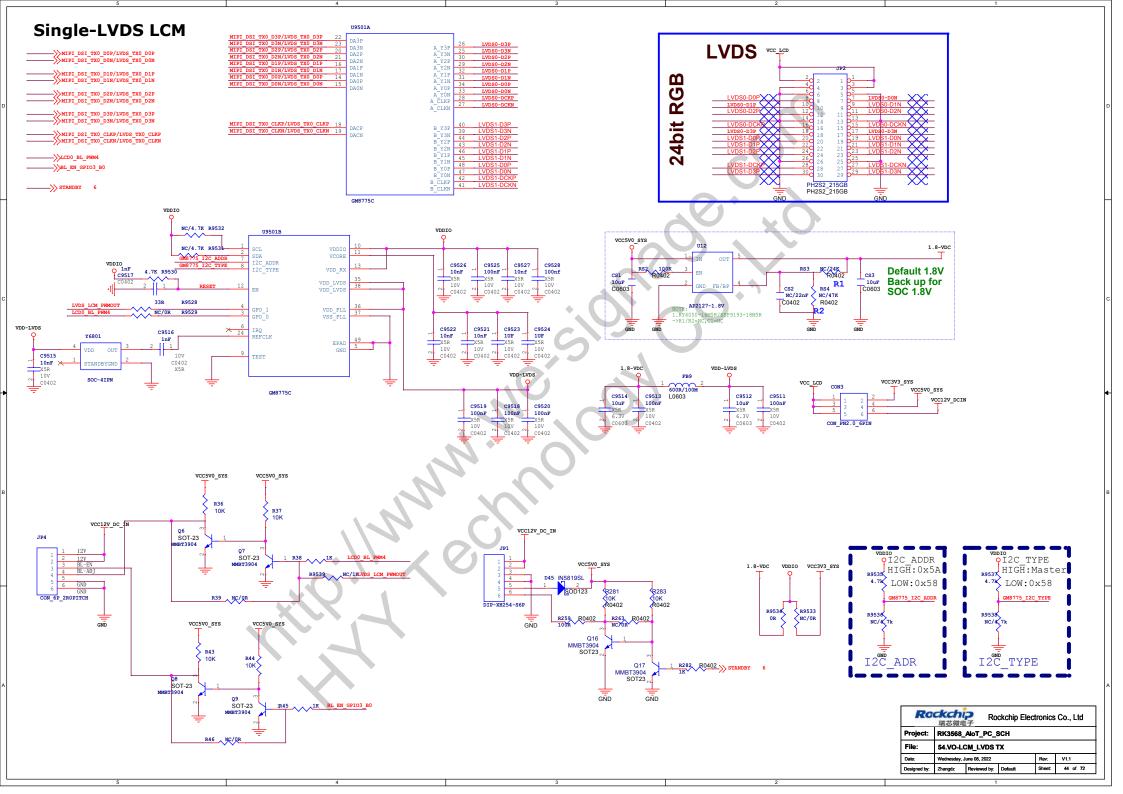


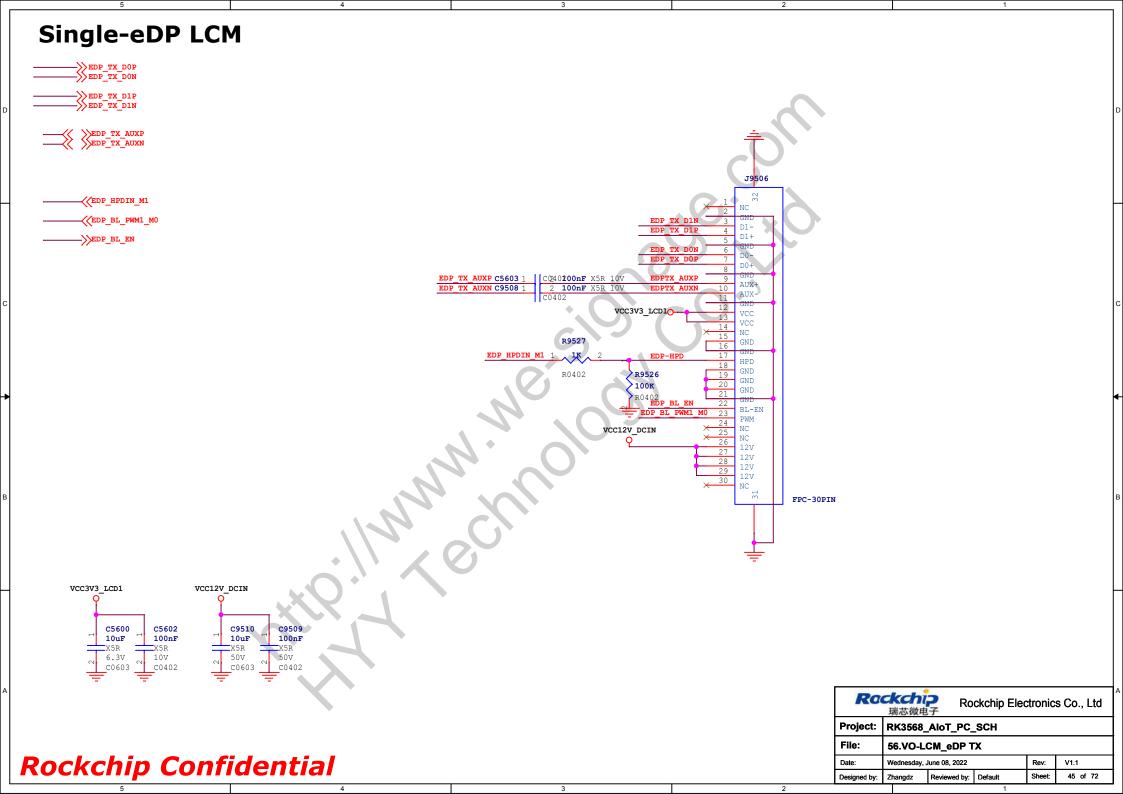


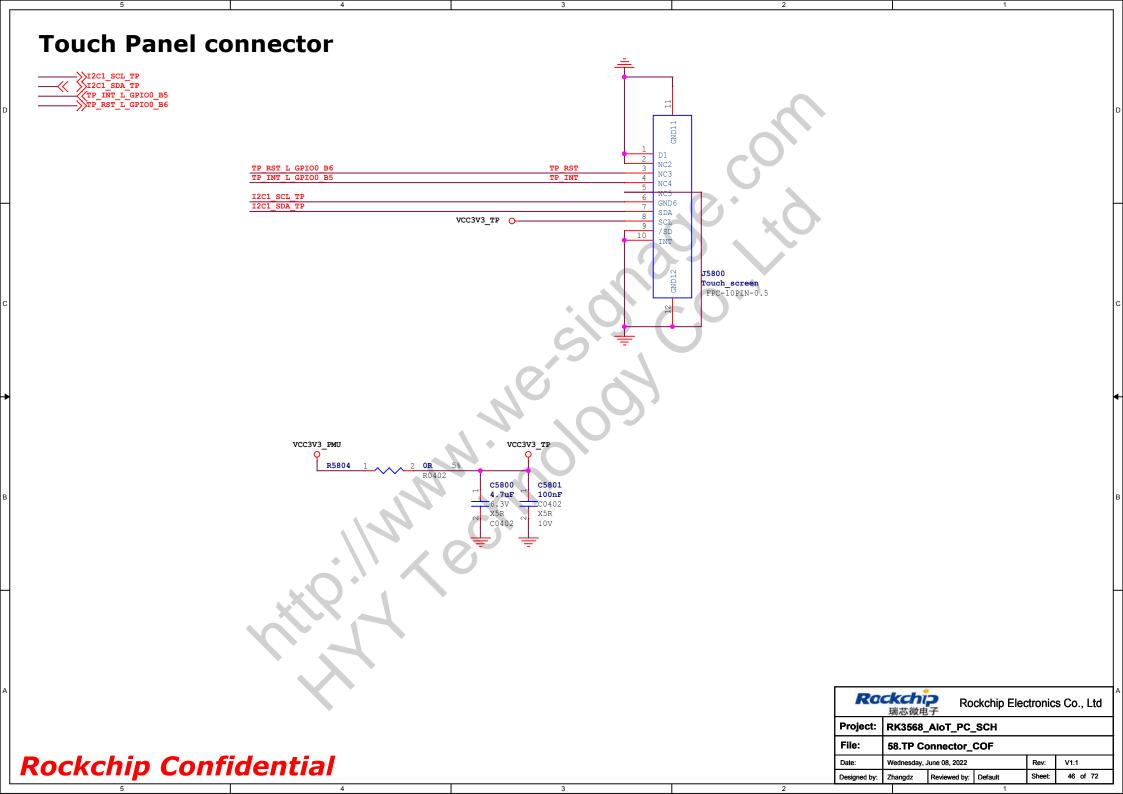


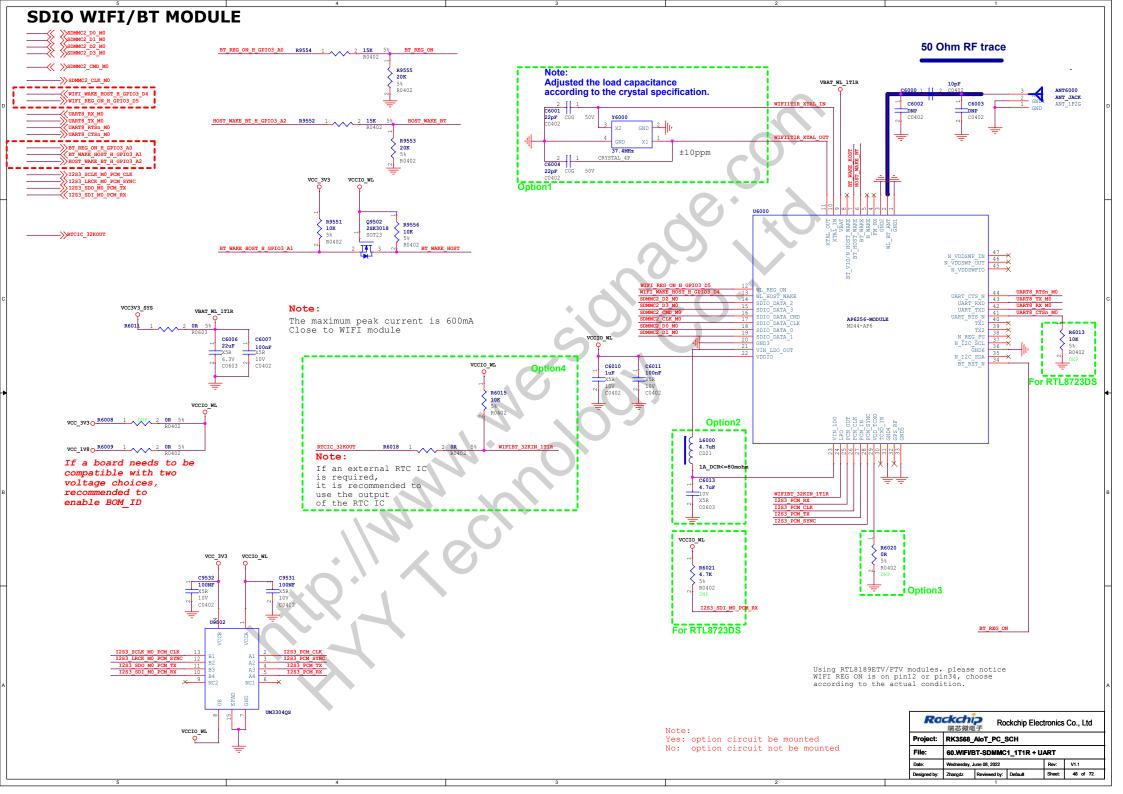


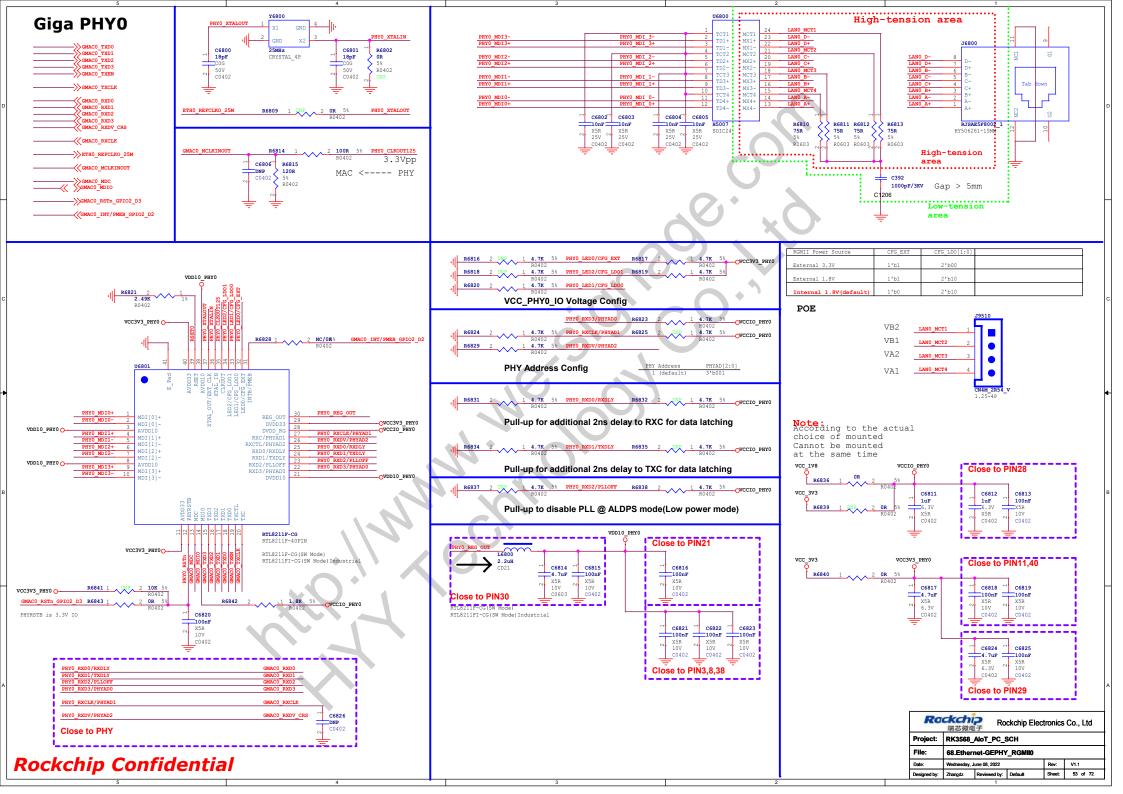


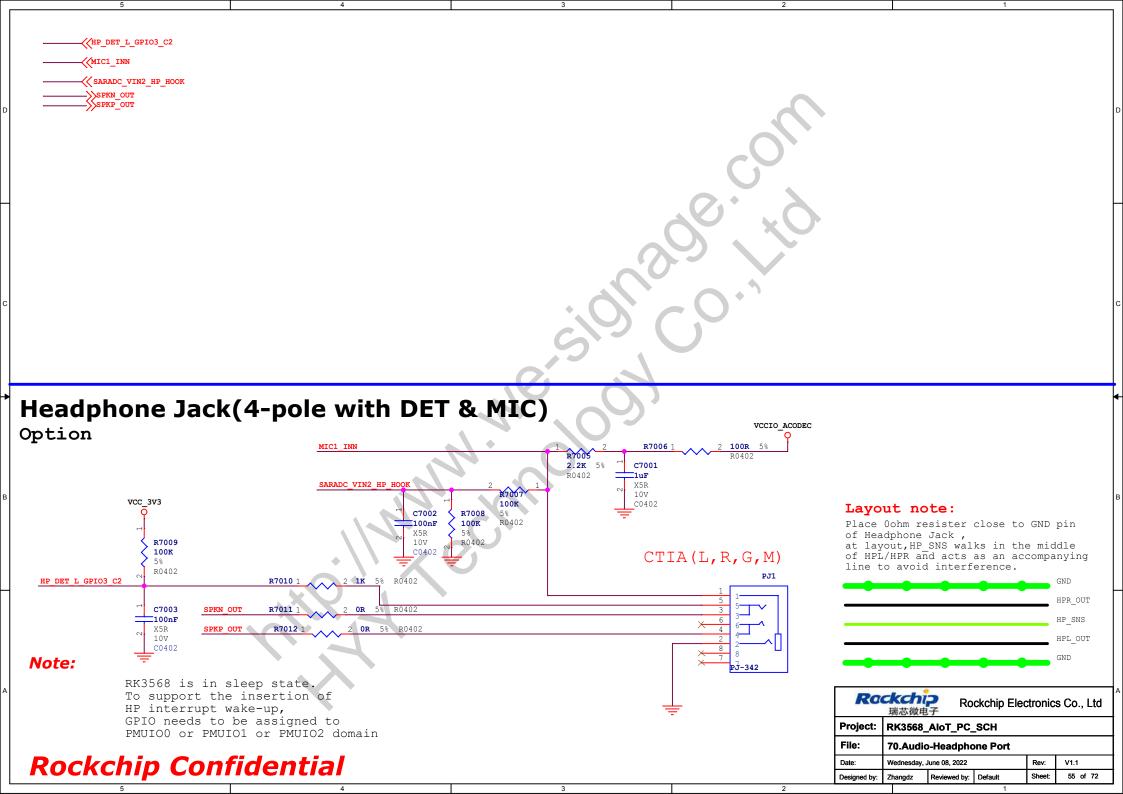


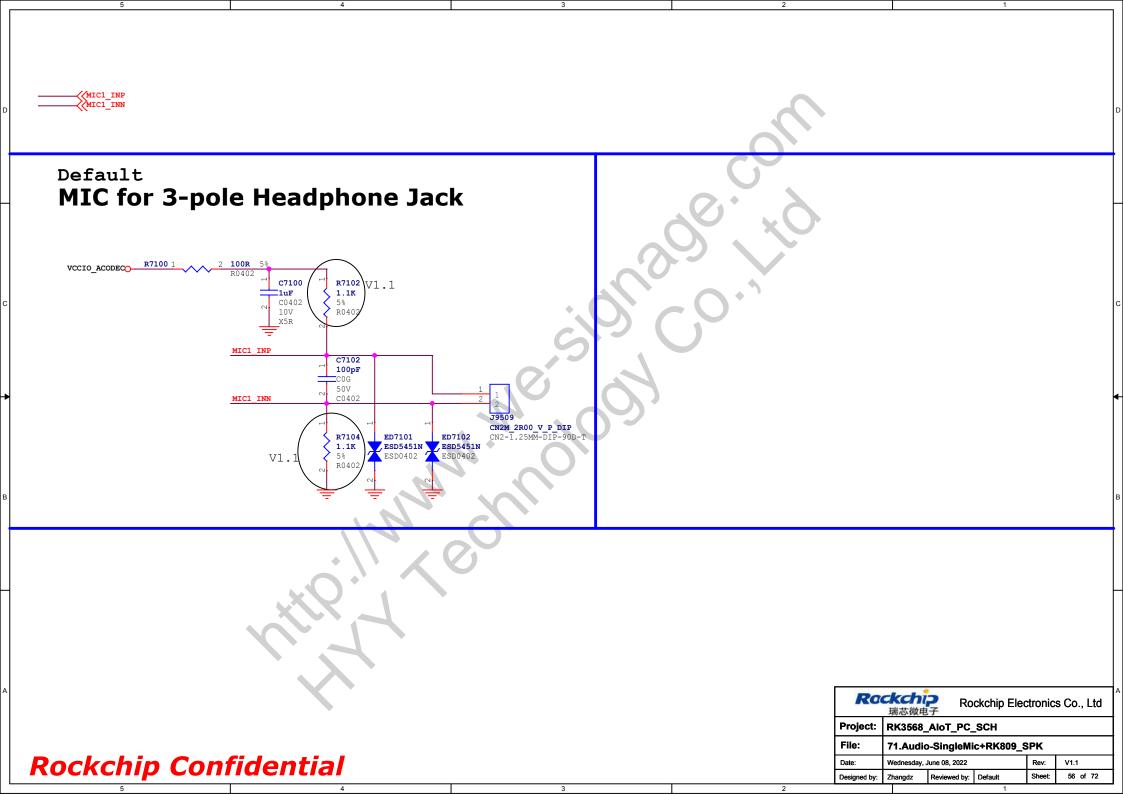


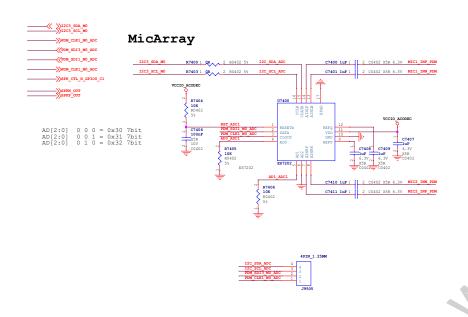


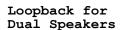












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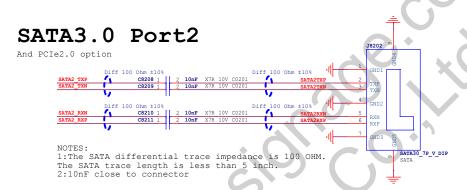
# Speaker Output Note: 4 chm/3W Note: 4 chm/3W

R7402 1 22R 2 5 N C7403 MIC2

vccio acodec 3.3V as default

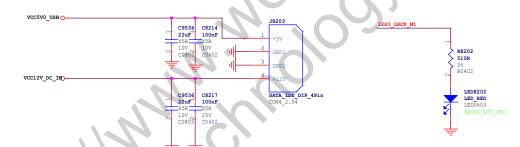
MIC1





#### SATA Power

The current is estimated according to the actual number of SATA High power switching separate power supply is recommended for more than  $2\,$ 



	Ra	ckchi 瑞志徽电		Rockchip Electronics Co., Ltd				
ſ	Project:	ct: RK3568_AloT_PC_SCH						
Ī	File: 82.SATA-SATA			lot_7P				
İ	Date:	Wednesday, J	une 08, 2022		Rev:	V1.1		
ſ	Designed by:	Zhangdz	Reviewed by:	Default	Sheet:	59 of 72		

