Reference Schematics For RK3588S

RK3588S_Tablet_Demo_SCH

Main Functions Introduction

1) Charger: 1Cell Battery_QC

2) PMIC: 1 x RK806-1+DiscretePower

3) RAM: 2 x 32bits LPDDR4/4x 4) ROM: eMMC5.1(Default)

5) Support: 1 x Type-C 3.0(with DP function)

6) Support: 1 x 4Lanes MIPI D/CPHY RX Camera

7) Support: 1 x 2Lanes MIPI DPHY RX Camera

8) Support: 1 x 4Lanes MIPI D/CPHY TX

9) Support: a/b/g/n/ac/ax 2T2R WIFI(PCIE) + BT5.0

11) Support: 1 x Headphone + 2 x Speaker out + 1 x Analog MIC

12) Support: 2 x PDM MIC Array

13) Support: Gyroscope+G-sensor+Ambient Light+Proximity

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Project:	RK35885	S_Demo			
File:	00.Cove	r Page			
Date:	Friday, Janu	ıary 07, 2022		Rev:	V10
Designed by:	Joseph	Reviewed by:	<checker></checker>	Sheet:	1 of 32

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Note

The power suffix S0 or S3 means:

S3: Keep power On during sleeping

S0:Power off during sleeping

Generate Bill of Materials

Header:

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

Combined property string:

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

Description

Note

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.

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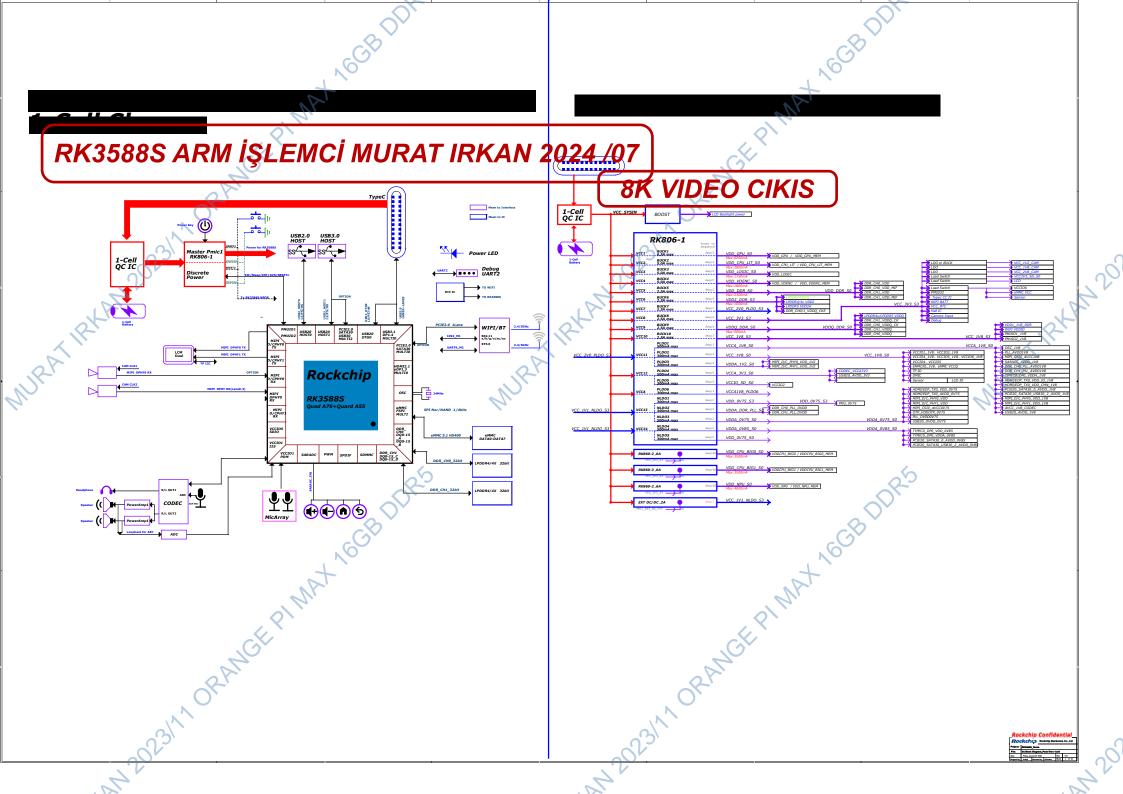
Project: RK3588S_Demo 01.Index and Notes Friday, January 07, 2022 Designed by: Joseph Reviewed by: <Checker> Sheet: 2 of 32

Revision History

Version	Date	Ву	Change Dsecription	Approved
V1.0	2022-01-05	Joseph.Wei	1:Revision preliminary version	
V1.1	2022-02-18	Joseph.Wei	1.C1604,C1612的电容改成1uF/4V。 2.为了减少待机功耗,将PMUIO2电源域改成1.8V,此IO域对应外设IO电压相应修改 3.把L2203,L2205,L2207,L2300,L2301,L2302电感由0.22uH(TDK)改为 0.24uH(Sunlord); L2201的电感由0.22uH(TDK)改为0.22uH (Sunlord),封装IND_404020。	

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Project:	RK3588	S_Demo			
File:	02.Revi	sion Histor	у		
Date:	Wednesda	y, February 23, 2	ry 23, 2022		V10
Designed by:	Joseph	Reviewed by:	<checker></checker>	Sheet:	3 of 32



Power Sequence

	, 0	. 1	2	3	4	, 5	6	. 7	, 8	9	19
VBUS_TYPEC	$\overline{}$										
VCC_SYSIN		_									
VCC_1V1_NLDO_S3 VCC_2V0_PLDO_S3											-
VDD_LOG_S0				\int_{-}^{-}							
VDD_0V75_S3 VDD_0V75_S0				\int							
VDDA_0V75_s0											
VDDA_0V85_S0											
VDD_DDR_S0 VDDA_DDR_PLL_S0											_
VDD_CPU_LIT_S0											-
VCC_1V8_S3 VCC_1V8_S0					\int_{-}^{-}						
VCCA_1V8_S0					\int_{-}^{-}						
VCCA1V8_PLDO6_S.	3				\int						
VDD2 DDR S3						\int_{-}^{-}					
AVDD_1V2_S0						\int					
VDD2L_0V9_DDR_S.	3						\int				
VDD_GPU_S0							$\sqrt{}$				
VDD_VDENC_S0							$\overline{}$				
VCCA_3V3_S0 VCC_3V3_S3								\mathcal{I}			
VCCIO_SD_S0								$\sqrt{}$			
VDDQ_DDR_S0								\mathcal{I}			_
VCC_3V3_SD_S0											
VDD_CPU_BIG0_S0									$\overline{}$		
VDD_CPU_BIG1_S0									$\overline{}$		-
VDD_NPU_S0									$\overline{}$		-
VCC_1V2_CAM											
VCC_1V8_CAM_SO											
VCC_2V8_CAM_S0											
RESET											

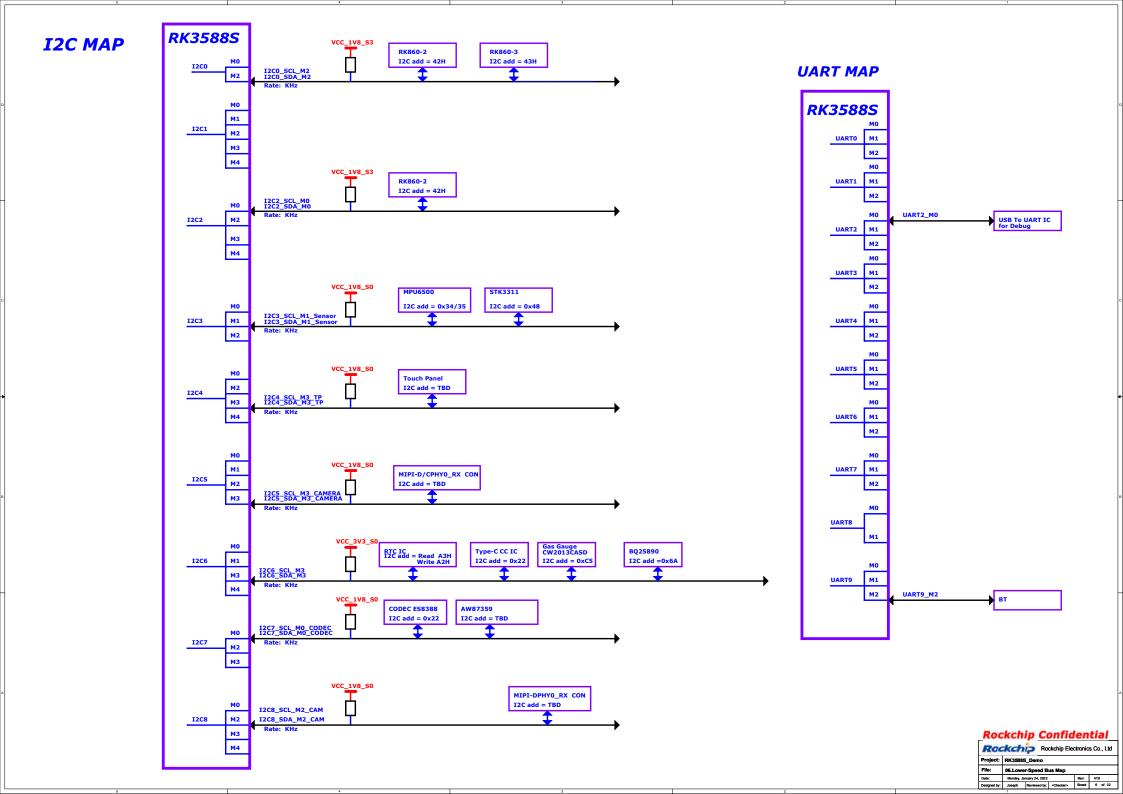
Power Supply	PMIC Channel	Supply Limit	Power Name	Time Slot	Default Voltage	Default ON/OFF	Sleep ON/OFF	Peak Current	Sleep Curren
VCC SYSIN	RK806-1 BUCK1	6.5A	VDD_GPU_S0	Slot:5	0.75V	ON	OFF	TBD	TBD
VCC_SYSIN	RK806-1 BUCK2	5A	VDD_CPU_LIT_S0	Slot:3	0.75V	ON	OFF	TBD	TBD
VCC_SYSIN	RK806-1 BUCK3	5A	VDD_LOG_S0	Slot:2	0.75V	ON	OFF	TBD	TBD
VCC_SYSIN	RK806-1_BUCK4	3A	VDD_VDENC_S0	Slot:5	0.75V	ON	OFF	TBD	TBD
VCC_SYSIN	RK806-1_BUCK5	2.5A	VDD_DDR_S0	Slot:2	0.85V	ON	OFF	TBD	TBD
VCC_SYSIN	RK806-1_BUCK6	2.5A	VDD2_DDR_S3	Slot:4	ADJ FB=0.5V	ON	ON	TBD	TBD
VCC_SYSIN	RK806-1_BUCK7	2.5A	VCC_2V0_PLDO_S3	Slot:1	2.0V	ON	ON	TBD	TBD
VCC_SYSIN	RK806-1_BUCK8	2.5A	VCC_3V3_S3	Slot:6	3.3V	ON	ON	TBD	TBD
VCC_SYSIN	RK806-1_BUCK9	2.5A	VDDQ_DDR_S0	Slot:6	ADJ FB=0.5V	ON	OFF	TBD	TBD
VCC_SYSIN	RK806-1_BUCK10	2.5A	VCC_1V8_S3	Slot:3	1.8V	ON	ON	TBD	TBD
	RK806-1_PLD01	0.5A	VCC_1V8_S0	Slot:3	1.8V	ON	OFF	TBD	TBD
VCC_2V0_PLDO_S3	RK806-1_PLDO2	0.3A	VCCA_1V8_S0	Slot:3	1.8V	ON	OFF	TBD	TBD
	RK806-1_PLDO3	0.3A	VDDA_1V2_S0	Slot:4	1.2V	ON	OFF	TBD	TBD
	RK806-1_PLDO4	0.5A	VCCA_3V3_S0	Slot:6	3.3V	ON	OFF	TBD	TBD
VCC_SYSIN	RK806-1_PLD05	0.3A	VCCIO_SD_S0	Slot:6	3.3V	ON	OFF	TBD	TBD
	RK806-1_PLDO6	0.3A	VCCA1V8_PLDO6_S3	Slot:3	1.8V	ON	ON	TBD	TBD
	RK806-1_NLD01	0.3A	VDD_0V75_S3	Slot:2	0.75V	ON	ON	TBD	TBD
VCC 1V1_NLDO_S3	RK806-1_NLDO2	0.3A	VDDA_DDR_PLL_S0	Slot:2	0.85V	ON	OFF	TBD	TBD
VCC_TVT_NLDO_33	RK806-1_NLDO3	0.5A	VDDA_0V75_S0	Slot:2	0.75V	ON	OFF	TBD	TBD
	RK806-1_NLDO4	0.5A	VDDA_0V85_S0	Slot:2	0.85V	ON	OFF	TBD	TBD
VCC_1V1_NLDO_S3	RK806-1_NLD05	0.3A	VDD_0V75_S0	Slot:2	0.75V	ON	OFF	TBD	TBD
VCC_SYSIN	BUCK_RK860-2	6A	VDD_CPU_BIGO_SO	Slot:6A	0.75V	ON	OFF	TBD	TBD
VCC_SYSIN	BUCK_RK860-3	6A	VDD_CPU_BIG1_S0	Slot:6A	0.75V	ON	OFF	TBD	TBD
VCC_SYSIN	BUCK_RK860-2	6A	VDD_NPU_S0	Slot:6A	0.75V	ON	OFF	TBD	TBD
VCC_SYSIN	EXT BUCK	2A	VCC_1V1_NLDO_S3	Slot:1	1.1V	ON	ON	TBD	TBD
VCC_SYSIN	EXT BUCK	2A	VDD2L_0V9_DDR_S3	Slot:5	0.9V	ON	ON	TBD	TBD
VCC_SYSIN	EXT BUCK	2.5A	VCC_3V3_SD_S0	Slot:6A	3.3V	ON	OFF	TBD	TBD
VCC SYSIN	EXT_BUCK or LDO	2A	VCC_1V2_CAM_S0	OFF	1.2V	OFF	OFF	TBD	TBD
VCC SYSIN	LDO	0.5A	VCC_1V8_CAM_S0	OFF	1.8V	OFF	OFF	TBD	TBD
VCC_SYSIN	LDO	0.5A	VCC_2V8_CAM_S0	OFF	2.8V	OFF	OFF	TBD	TBD

IO Power Domain Map

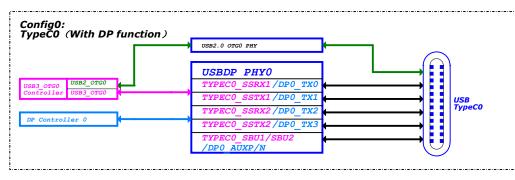
				_	
IO Domain	Pin Num	Support IO Voltage	Supply Power Pin Name	Power Source	Operating Voltage
PMUIO1	Pin N36 N37	1.8V Only	PMUIO1_1V8	VCC_1V8_S3	1.8V
PMUIO2	Pin V37 Y37 Pin V35 V36	1.8V or 3.3V	PMUIO2_1V8 PMUIO2	VCC_1V8_53 VCC_1V8_53	1.8V 1.8V
EMMCIO	Pin AC35 Pin AC36	1.8V Only	EMMCIO_1V8	VCC_1V8_S0	1.8V
VCCI01	Pin H31	1.8V Only	VCCIO1_1V8	VCC_1V8_S0	1.8V
VCCIO2	Pin AK11 Pin AK10	1.8V or 3.3V	VCCIO2_1V8 VCCIO2	VCC_1V8_S0 VCC IO SD	1.8V 1.8V/3.3V
VCCI04	Pin G27 G28 Pin G31	1.8V or 3.3V	VCCIO4_1V8 VCCIO4	VCC_1V8_S0 VCC 3V3 S0	1.8V 1.8V
VCCI05	Pin AF35 AF36 Pin AC33 AC34	1.8V or 3.3V	VCCIO5_1V8 VCCIO5	VCC_1V8_S0 VCC_1V8_S0	1.8V 1.8V
VCCI06	Pin AJ34 Pin AL33 AM33	1.8V or 3.3V	VCCIO6_1V8 VCCIO6	VCC_1V8_S0 VCC_3V3_S0	1.8V 3.3V

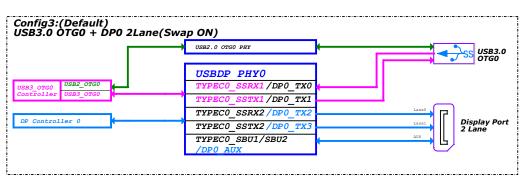
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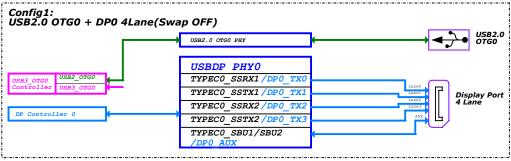
Rac	kch	Ro	ckchip Elec	tronics	Co., Ltd
Project:	RK3588S	_Demo			
File:	05.Syste	m Power S	equence		
Date:	Monday, Jar	uary 24, 2022		Rev:	V10
Designed by:	Joseph	Reviewed by:	<checker></checker>	Sheet:	5 of 32

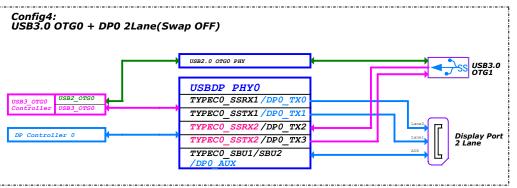


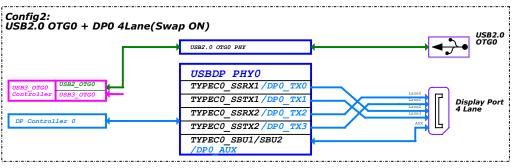
Controller	Pin Name	Type-C	DPx4Lane	+USB20 OTG	USB30 OTG+DPx2	Lane Function	USB20 OTG+DPx2	Lane Function	USB20 OTG+DPx	Lane Function
Name		Function	OPTION1	OPTION2	OPTION1	OPTION2	OPTION1	OPTION2	OPTION1	OPTION2
	TYPECO_SBU1/DPO_AUXP TYPECO_SBU2/DPO_AUXN	TYPECO_SBU1 TYPECO_SBU2	DPO_AUXP DPO_AUXN	DPO_AUXP DPO_AUXN	DPO_AUXP DPO_AUXN	DPO_AUXP DPO_AUXN	DPO_AUXP DPO_AUXN	DPO_AUXP DPO_AUXN	DPO_AUXP DPO_AUXN	DPO_AUXP DPO_AUXN
USB30 OTG0	TYPECO_SSRX1P/DPO_TX0P TYPECO_SSRX1N/DPO_TX0N	TYPECO_SSRXIP TYPECO_SSRXIN	DPO_TXOP DPO_TXON	DPO_TX2P DPO_TX2N	TYPECO_SSRX1P TYPECO_SSRX1N	DPO_TXOP DPO_TXON	DPO_TXOP DPO_TXON		DPO_TXOP DPO_TXON	DP0_TX2P DP0_TX2N
Device or Host	TYPECO_SSTXIP/DPO_TXIP TYPECO_SSTXIN/DPO_TXIN	TYPECO_SSTXIP TYPECO_SSTXIN	DPO_TXIP DPO_TXIN	DPO_TX3P DPO_TX3N	TYPECO_SSTXIP TYPECO_SSTXIN	DPO_TXIP DPO_TXIN	DPO_TXIP DPO_TXIN		DPO_TXIP DPO_TXIN	DPO_TX3P DPO_TX3N
	TYPECO_SSRX2P/DPO_TX2P TYPECO_SSRX2N/DPO_TX2N	TYPECO_SSRX2P TYPECO_SSRX2N	DPO_TX2P DPO_TX2N	DPO_TXOP DPO_TXON	DPO_TX2P DPO_TX2N	TYPECO_SSRX2P TYPECO_SSRX2N	_	DP0_TX2P DP0_TX2N	DP0_TX2P DP0_TX2N	DPO_TXOP DPO_TXON
	TYPECO_SSTX2P/DPO_TX3P TYPECO_SSTX2N/DPO_TX3N	TYPECO_SSTX2P TYPECO_SSTX2N	DPO_TX3P DPO_TX3N	DPO_TXIP DPO_TXIN	DPO_TX3P DPO_TX3N	TYPECO SSTX2P TYPECO SSTX2N		DP0_TX3P DP0_TX3N	DPO_TX3P DPO_TX3N	DPO_TXIP DPO_TXIN
USB20 OTG0 Device or Host	TYPECO_USB2O_OTG_DP TYPECO_USB2O_OTG_DM	TYPECO USB20 OTG DP TYPECO USB20 OTG DM	TYPECO USB TYPECO USB	20 OTG DP 20 OTG DM	TYPECO USB20 OTG DP TYPECO USB20 OTG DM	TYPECO USB20 OTG DP TYPECO USB20 OTG DM	TYPECO USB20 OTG I			
				TION1 0 HOST	OPTION2 USB30 HOST					
USB30 OTG2	PCIE20 2 TXP/SATA30 2 TXP/USB30 2 SSTXP PCIE20 2 TXN/SATA30 2		USB30_ HeB30	2_SSTXP 2_SSTXN	USB30_2_SSTXP USB30_2_SSTXN					
Device of Host	TXN/USB30_2_SSTXN PCIE20 2 RXP/SATA30 2						!			
	PCIE20 2 RXP/SATA30 2 RXP/USB30 2 SSRXP PCIE20 2 RXN/SATA30 2 RXN/USB30 2 SSRXN		usn30 usn30	2 SSRXP 2 SSRXN	USB30 2 SSRXP USB30 2 SSRXN					
USB20 HOSTO	USB20_BOST0_DP USB20_BOST0_DM		USB20 USB20	HOSTO DP HOSTO DM			Note:			
USB20 HOST1	USB20_BOST1_DP USB20_BOST1_DM				USB20_HOST1_DP USB20_HOST1_DM		DP Lane swap o 0:Lane0/1/2/3	nable TxData mapping to L TxData mapping to L	ane0/1/2/3 TXDP/N	









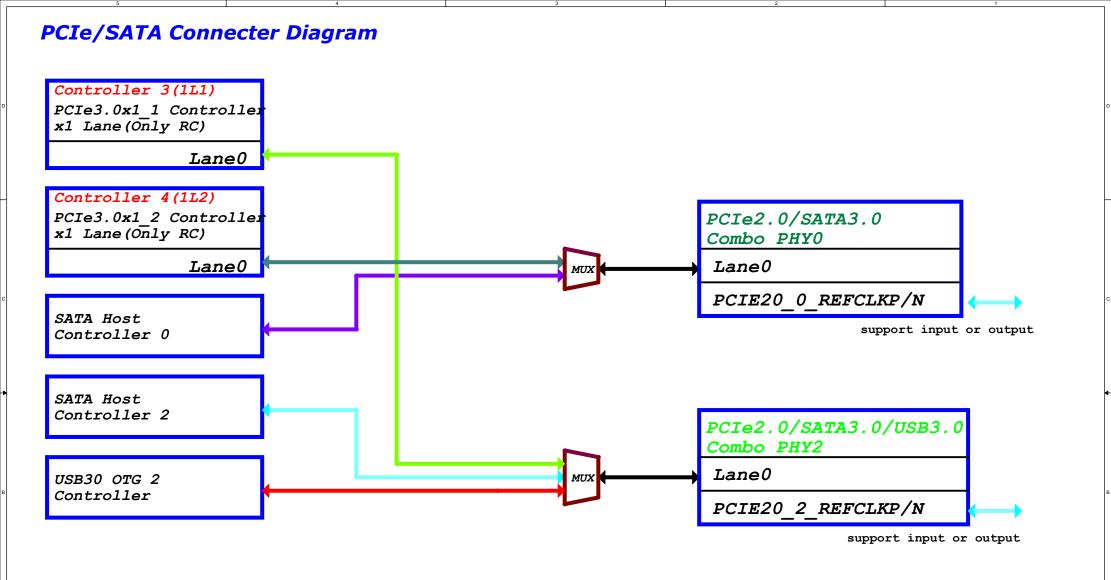


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Project: ROCSESS, Demo

Flic: 87.USB Controller Configure Tab



PCIe Controller Configure Table

Controller	Data & Clk	Data & Clk Lane Configure				
Name	CLK LANE	DATA LANE	Control GPIO			
PCIE20X1_1	PCIE20_2_REFCLKP	PCIE20_2_TX	PCIE20X1_1_CLKREQ_M* PCIE20X1_1_WAKEN_M* PCIE20X1_1_PERSTN_M* PCIE20X1_1_BUTTON_RSTN			
RC	PCIE20_2_REFCLKN	PCIE20_2_RX				
PCIE20X1_2	PCIE20 0 REFCLKP	PCIE20 0 TX	PCIE20X1 2 CLKREQ M* PCIE20X1 2 WAKEN M* PCIE20X1 2 WAKEN M* PCIE20X1 2 PERSTN M* PCIE20X1 2 BUTTON RSTN			
RC	PCIE20 0 REFCLKN	PCIE20 0 TX				

PCIe2.0 REFCLK

RK3588S 100MHz PCIe Con

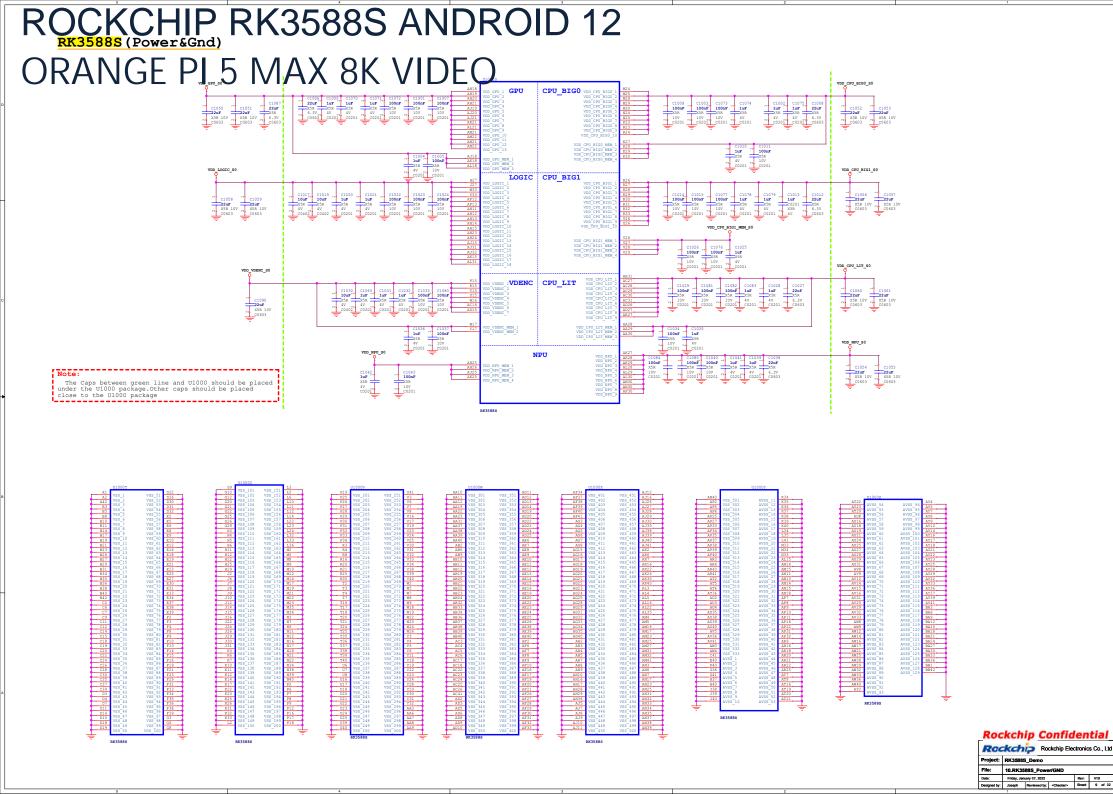
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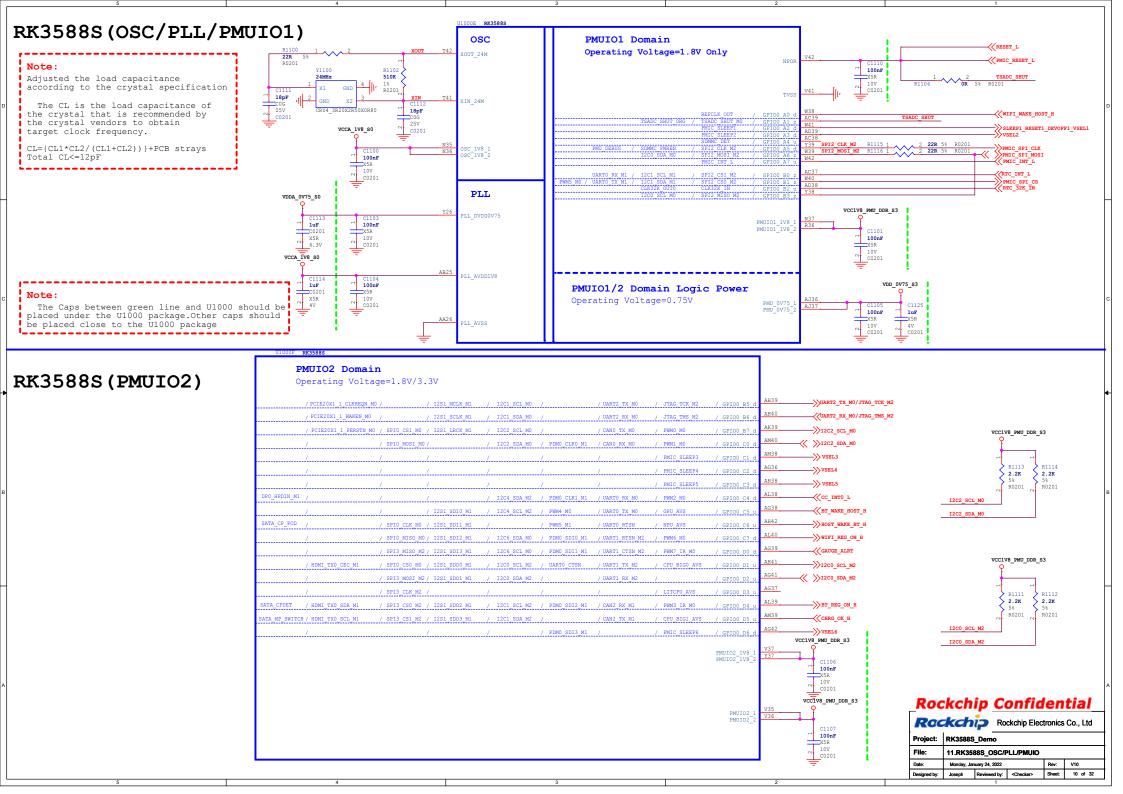
PCIE20_*_REFCLKP/N is output or input gpio M*=Mean to M0 or M1 or M2,It's the same source,Just multiplex to M0 or M1 or M2,Only use one at the same time.

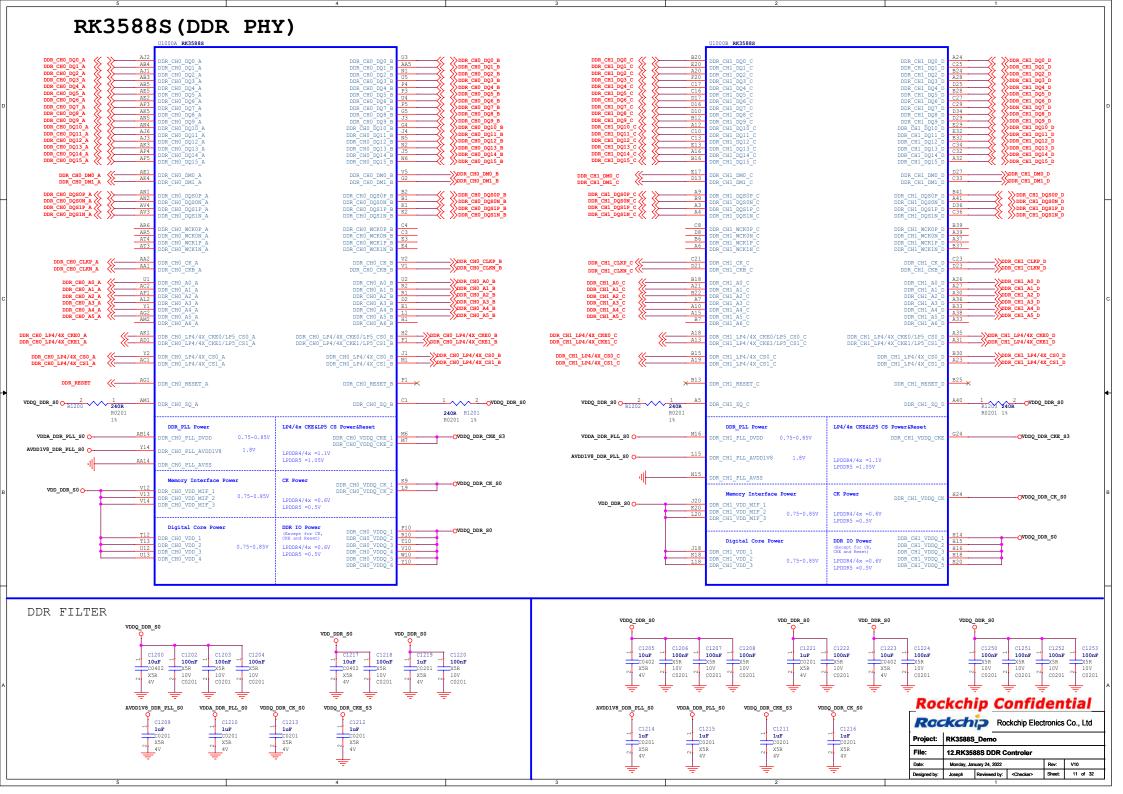
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Project:	RK3588S_Dem	0
File:	08.PCIE Fun Ma	ар
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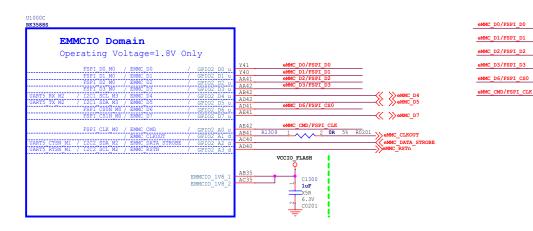
Designed by: Joseph Reviewed by: <Checker> Sheet: 8 of 32







RK3588S (EMMCIO Domain)



RK3588S (VCCIO2 Domain)



Note

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

-≪ ≫eMMC_D0

--≪ ≫eMMC_D3

--≪ ≫eMMC_D6

→ SeMMC_CMD

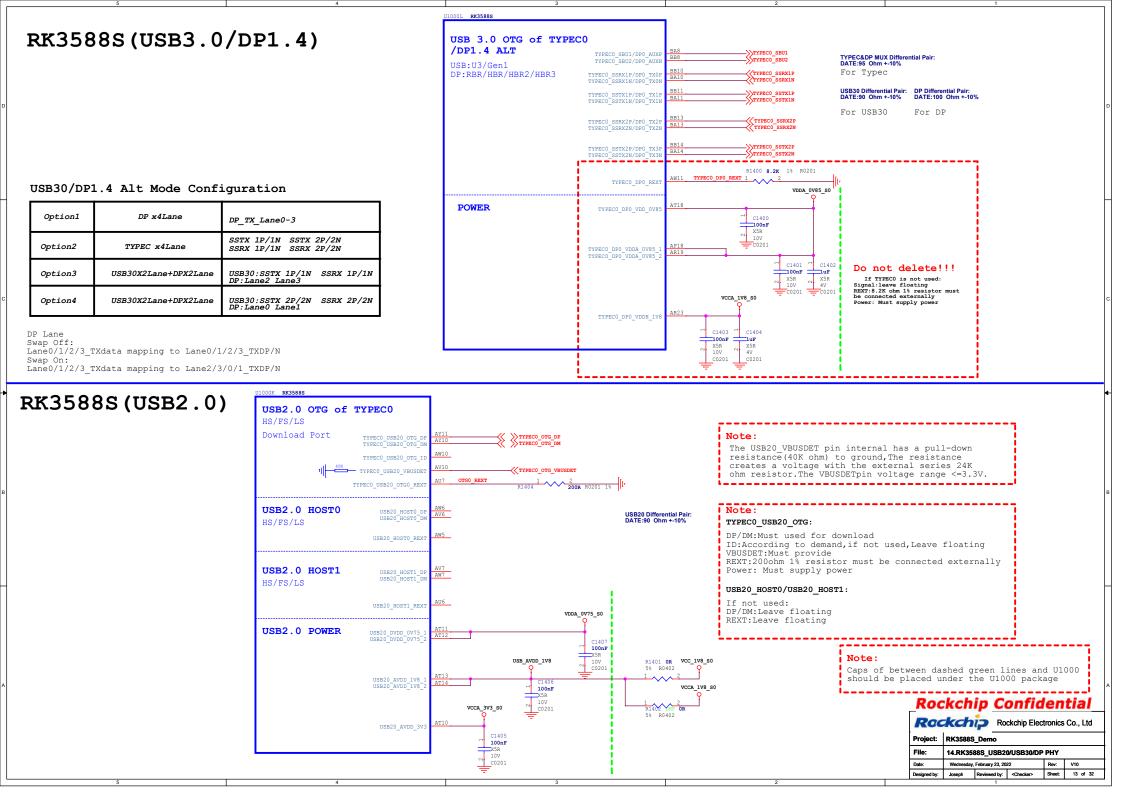
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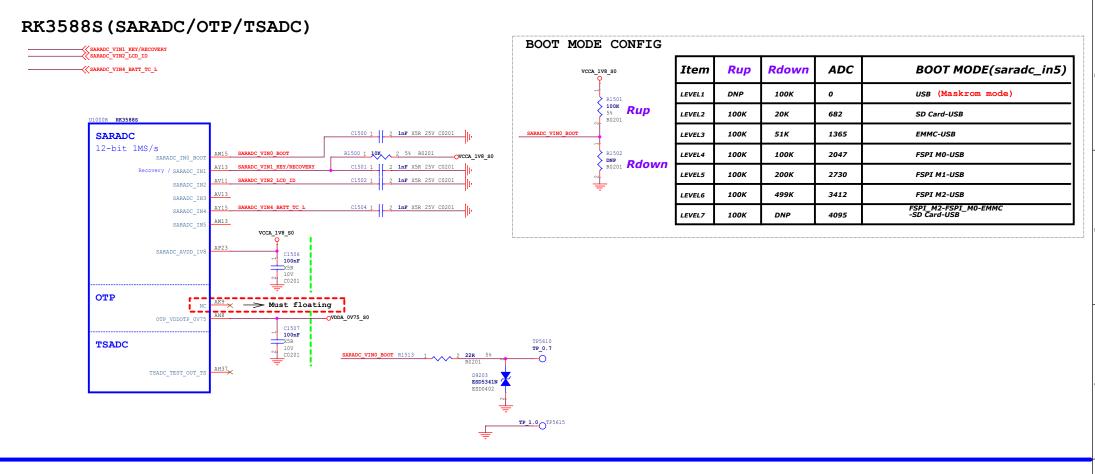
Rac	kchip	Rockchip Electronics Co., Ltd
Project:	RK3588S_Dem	0
File:	42 DV25000 EL	ash/PD Controller

 File:
 13.RK3588S Flash/SD Controller

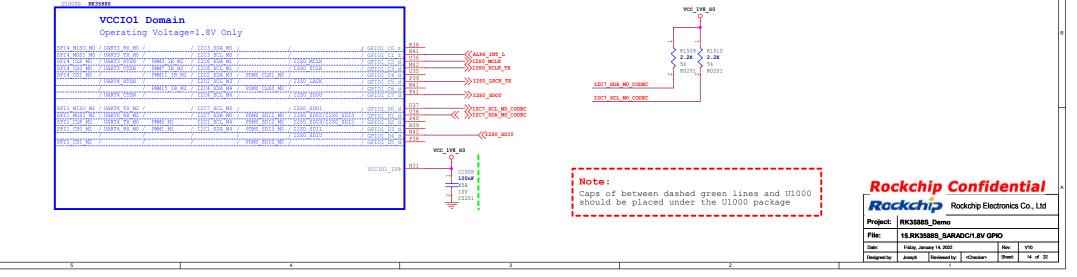
 Date:
 Wednesday, January 12, 2022
 Rev:
 V10

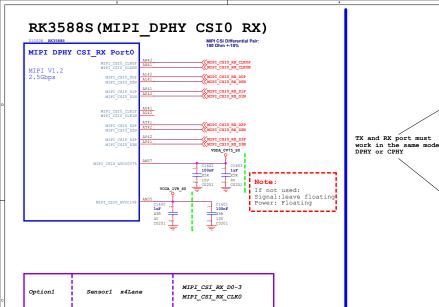
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 Joseph
 Reviewed by:
 <Checker>
 Sheet
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RK3588S (VCCIO1 Domain)





MIPI_CSI_RX_D0-1

MIPI_CSI_RX_CLK0

MIPI_CSI_RX_D2-3

MIPI_CSI_RX_CLK1

Note:

Option2

When in single clock lane mode, CLKOF/ON is the clock lane from Data lane0 to Data lane3, but clock lane1 is invalid; In dual clock lanes mode, CLKOF/ON is the clock lane of Data lane0 and Data lane1, while CLKIF/IN is the clock lane of Data lane2 and Data lane3.

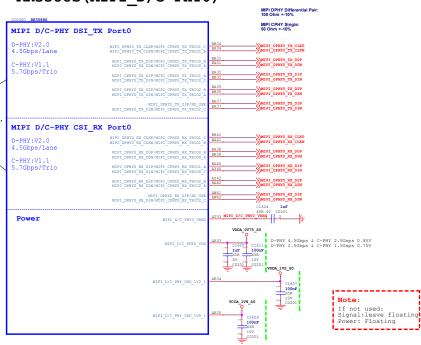
Sensor1 x2Lane

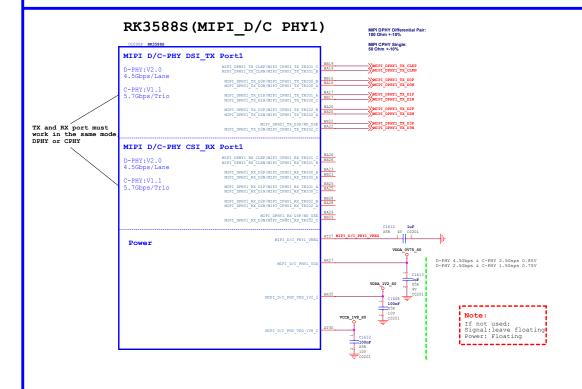
Sensor2 x2Lane

Note:

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

RK3588S (MIPI D/C PHY0)





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Project: RK3588S_Demo 16.RK3588S_MIPI Interface
 Date:
 Monday, February 21, 2022
 Rev:
 V10

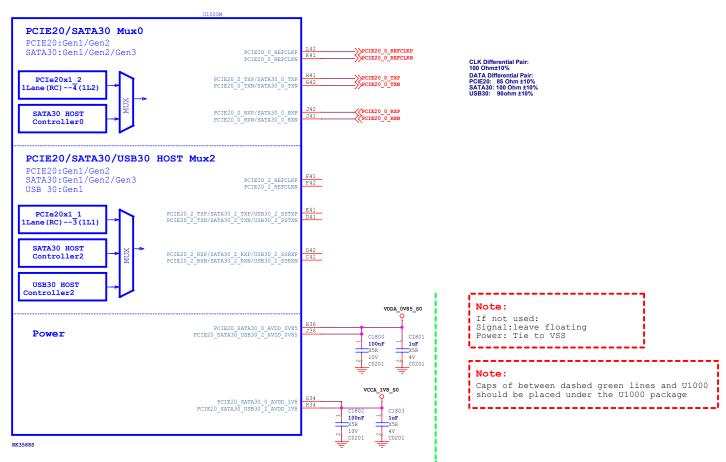
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 Sheet
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RK3588S(HDMI2.1 TX/eDP1.3 TX) | Note: The HDMI2.1 trace length is less than 100mm. eDP TX HDMI TX The HDMI2.1 differential trace impedance is 100 OHM. 100 Ohm ±10% 100 Ohm ±10% HDMI TX/eDP1.3 MUX Port0 HDMI:V2.1 12Gbps eDP: V1.3 5.4Gbps HDMI TX0 D0P/EDP TX0 D0P HDMI TXO DON/EDP TXO DON HDMI TX0 D1P/EDP TX0 D1P BB5 HDMI TXO D1N/EDP TXO D1N HDMI TX0 D2P/EDP TX0 D2P HDMI TX0 D2N/EDP TX0 D2N HDMI_TX0_D3P/EDP_TX0_D3P HDMI_TX0_D3N/EDP_TX0_D3N HDMI TX0 SBDP/EDP TX0 AUXP HDMI TXO SBDN/EDP TXO AUXN AY3 HDMI/eDP TX0 REXT R1708 1 HDMI/eDP TX0 REXT VDDA 0V75 S0 AM13 HDMI/EDP TX0 VDD 0V75 1 POWER HDMI/EDP TX0 VDD 0V75 2 100nF 4.7uF X5R 10V 6.3V C0201 C0402 HDMI/EDP TX0 AVDD 0V75 C1712 Note: 1uF ____ 100nF X5R If not used: X5R 4V 10V Signal: leave floating C0201 - C0201 Power: Floating or tie to VSS VCCA 1V8 S0 HDMI/EDP TX0 VDD IO 1V8 C1713 HDMI/EDP TX0 VDD CMN 1V8 100nF 4.7uF X5R X5R Caps of between dashed green lines and U1000 10V 6.3V should be placed under the U1000 package C0201 C0402 **Rockchip Confidential** Rockchip Electronics Co., Ltd Project: RK3588S Demo File: 17.RK3588S HDMI/eDP Interface Friday, January 07, 2022 Designed by: Sheet: 16 of 32

Joseph

Reviewed by: <Checker>

RK3588S (PCIE20/SATA30/USB30)

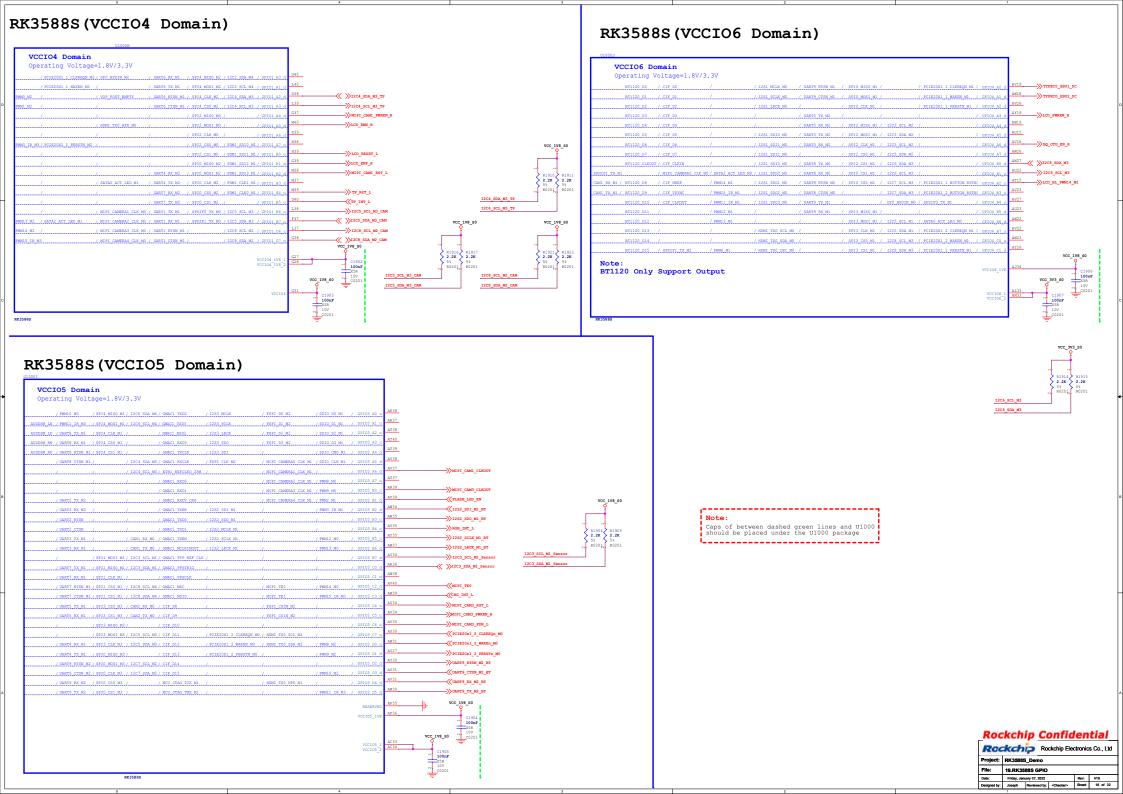


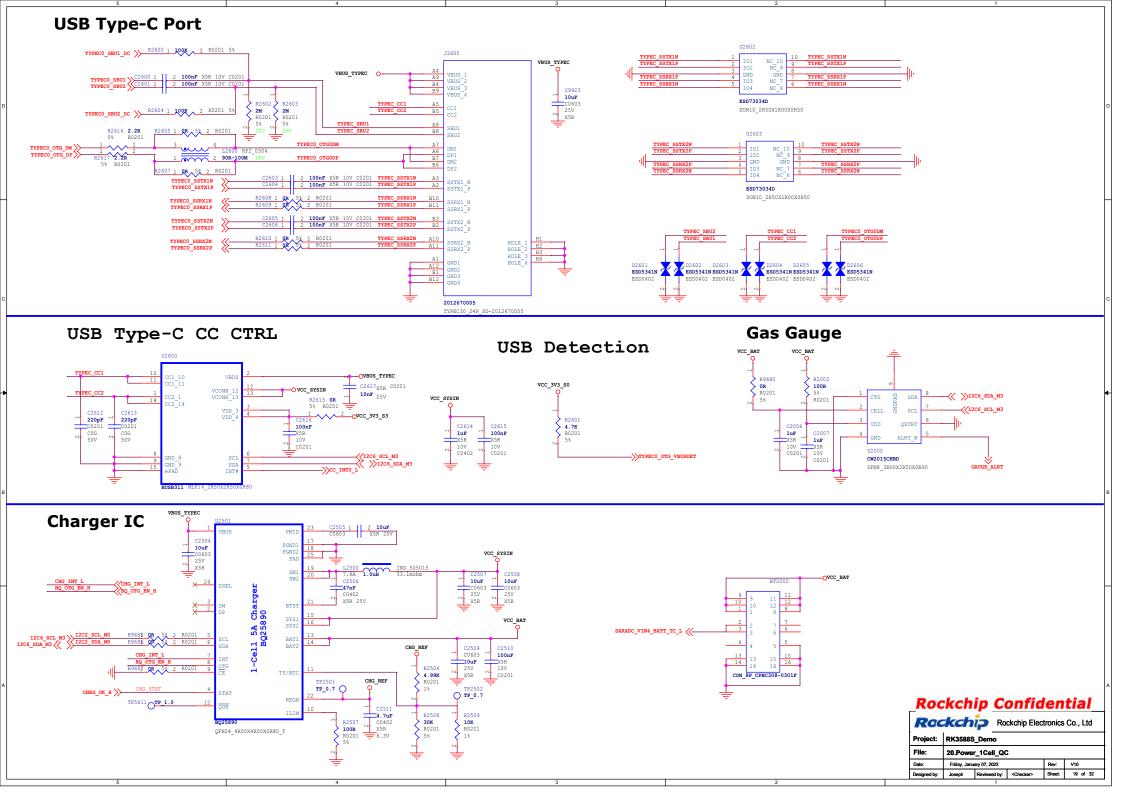
PCIe2.0 PHY

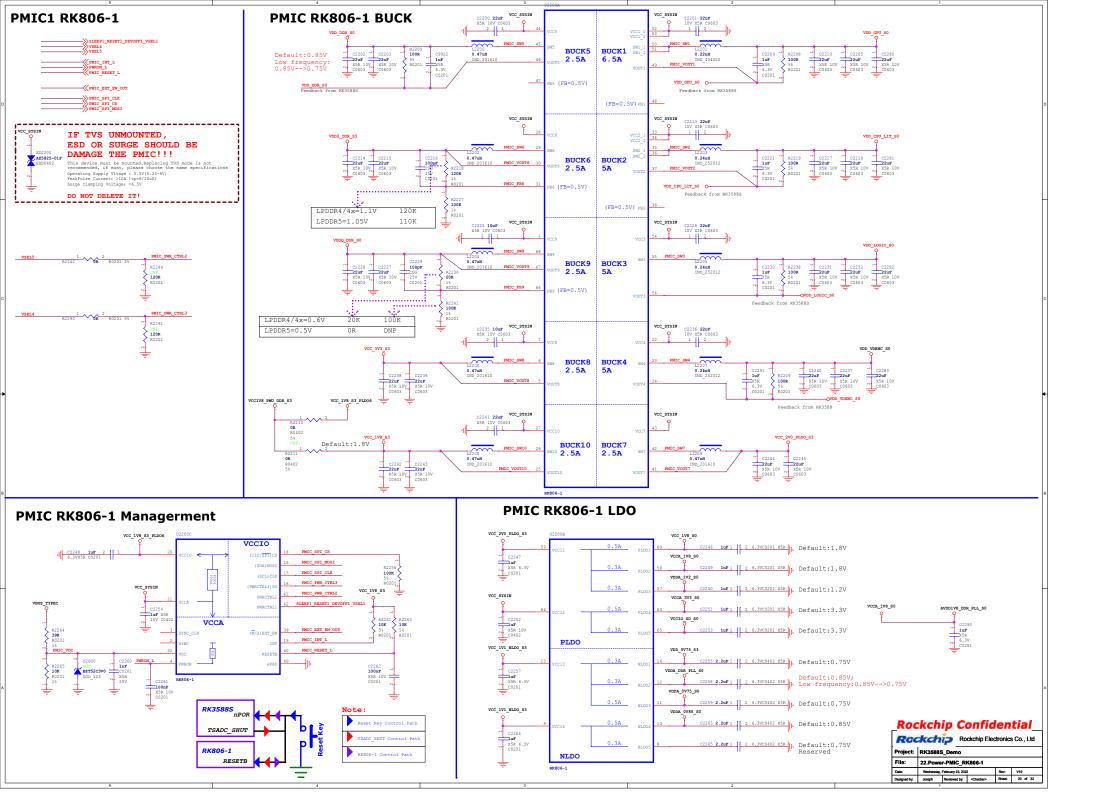
Controller	Data & Clk	Garateral GDTO	
Name	CLK LANE	DATA LANE	Control GPIO
PCIE20X1_1	PCIE20 2 REFCLKP	PCIE20 2 TX	PCIE20X1 1 CLKREQ M* PCIE20X1 1 WAKEN M* PCIE20X1 1 PERSTN M* PCIE20X1 1 BUTTON RSTN
RC	PCIE20_2 REFCLKN	PCIE20 2 TX	
PCIE20X1_2	PCIE20 0 REFCLKP	PCIE20 0 TX	PCIE20X1 2 CLKREO M* PCIE20XI 2 WAKEN M* PCIE20XI 2 PERSTN M* PCIE20XI 2 BUTTON_RSTN
RC	PCIE20 0 REFCLKN	PCIE20_0_RX	

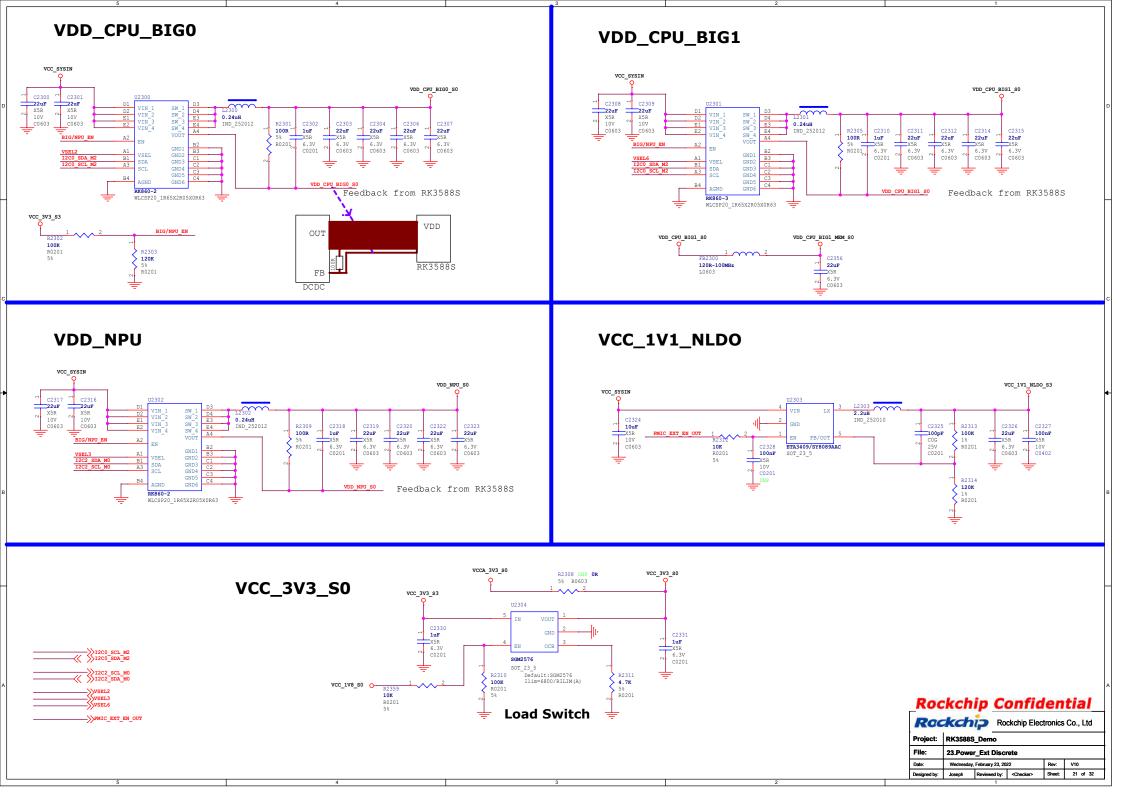
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Rac	kch	Po Ro	Rockchip Electronics Co., Ltd			
Project:	RK3588S_Demo					
File:	18.RK3588S PCIE2/SATA3/USB3 PHY					
Date:	Friday, January 07, 2022			Rev:	V10	
Designed by:	Joseph	Reviewed by:	<checker></checker>	Sheet:	17 of 32	



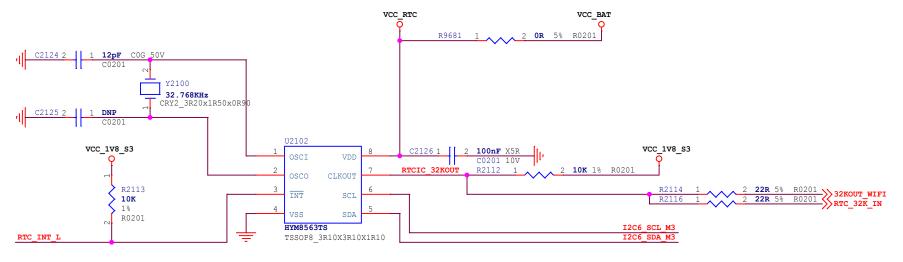












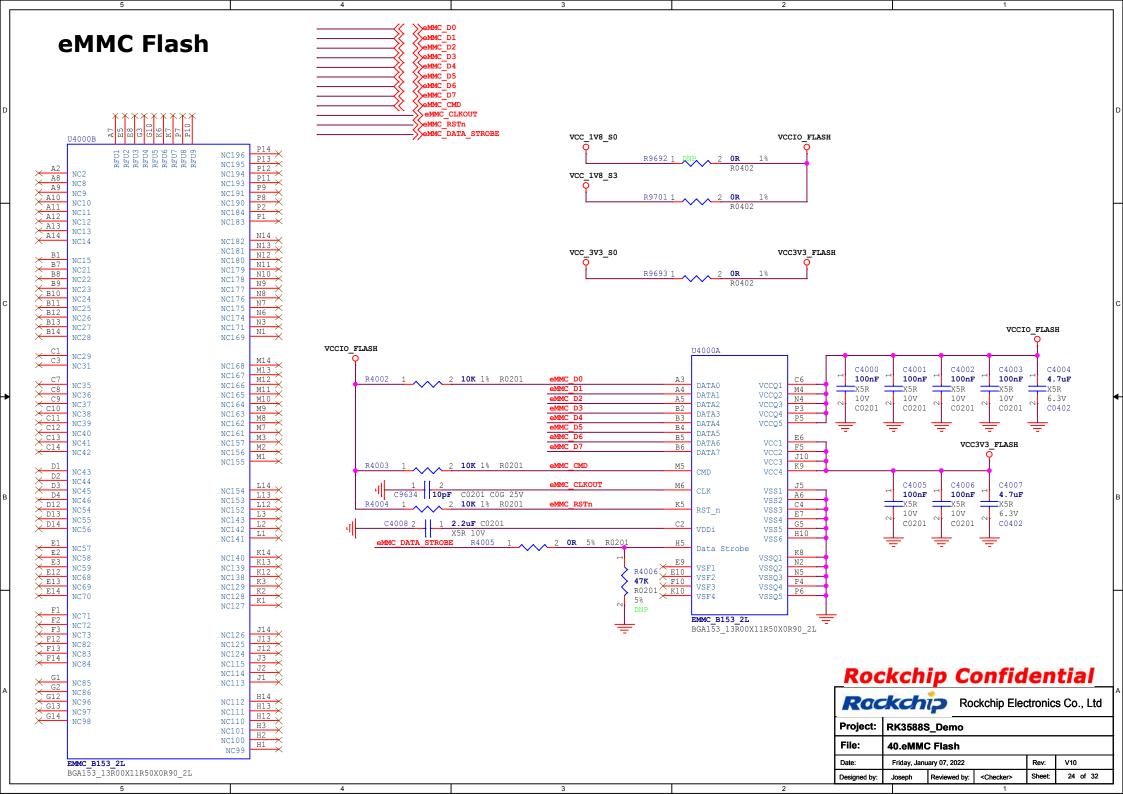
Address:Read A3H, Write A2H

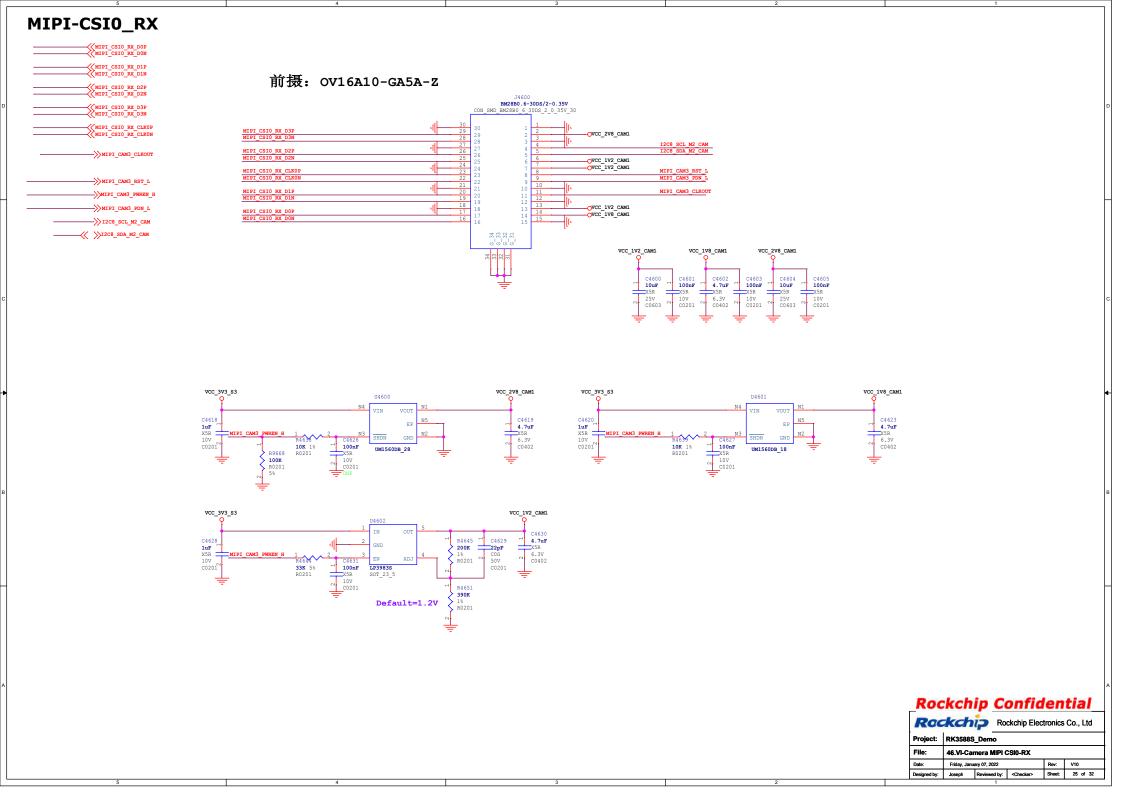
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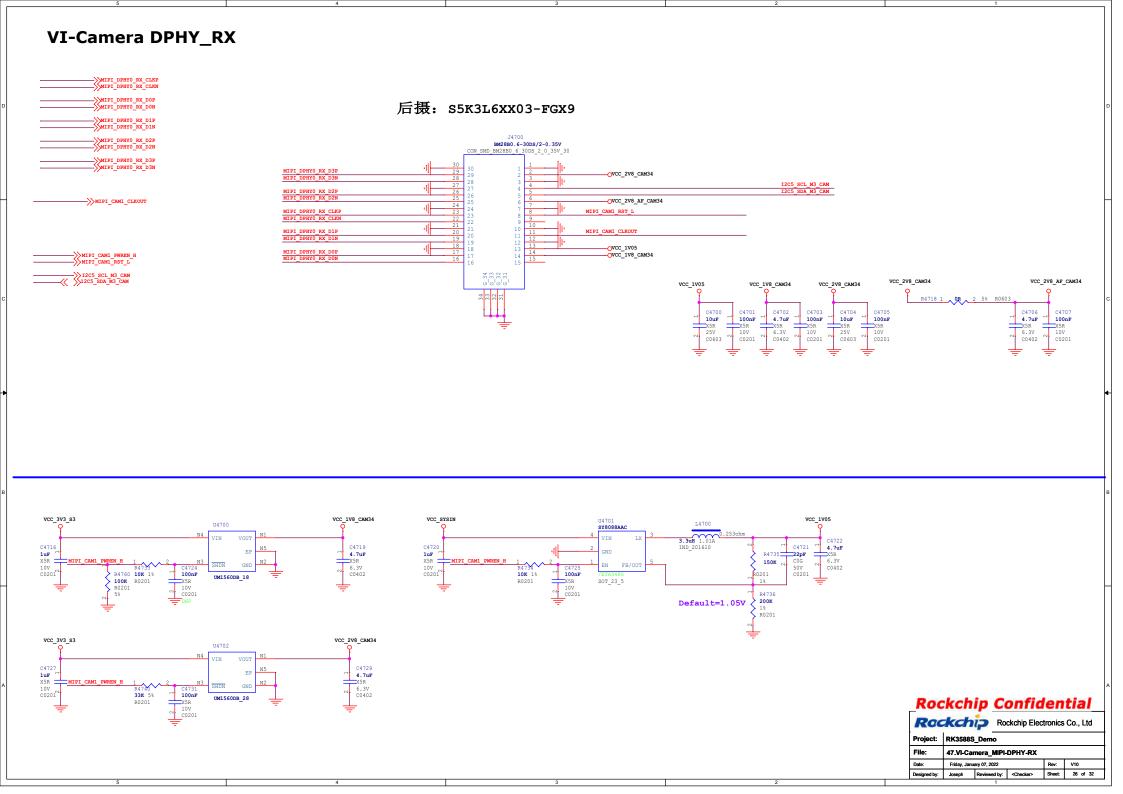
Rockchip Electronics Co., Ltd								
Project:	RK3588S_Demo							
File:	24.RTC							
Date:	Friday, January 07, 2022			Rev:	V10			
Designed by:	Joseph	Reviewed by:	<checker></checker>	Sheet:	22 of 32			

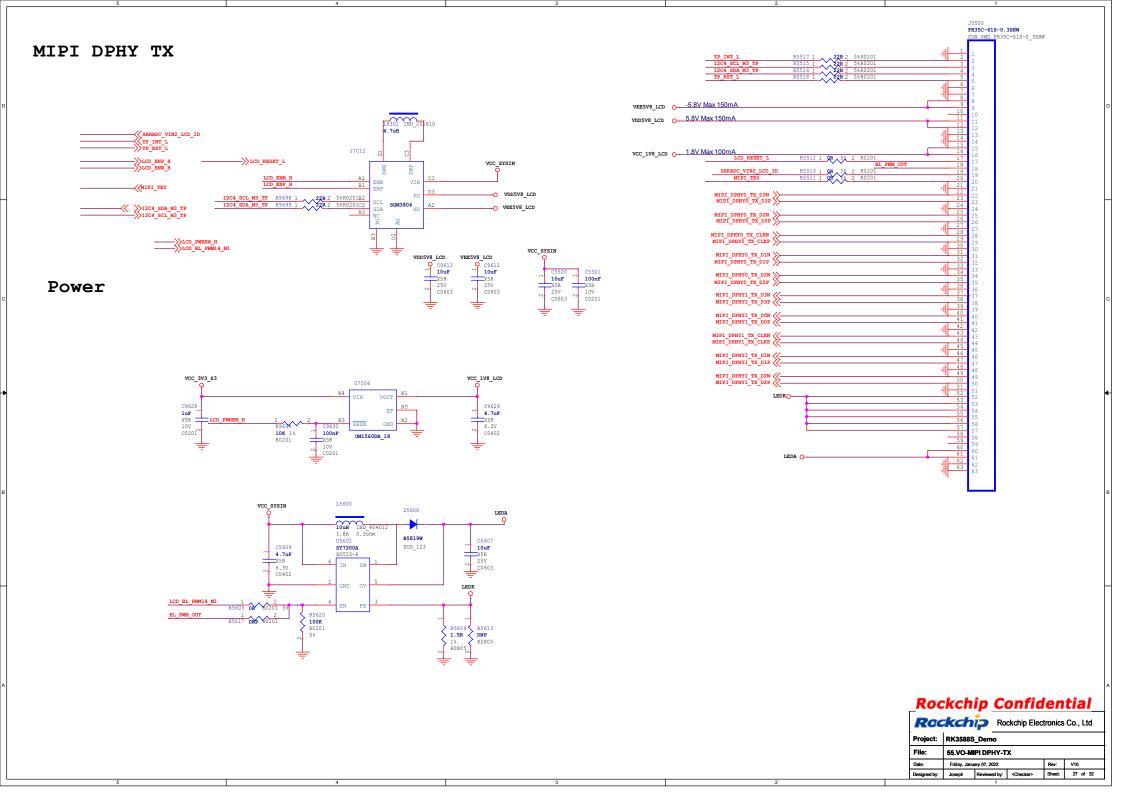
4











PCIe WIFI6/BT Module-2T2R

