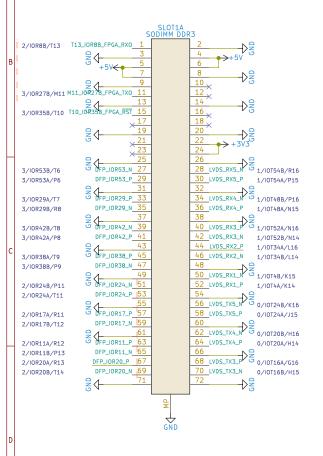
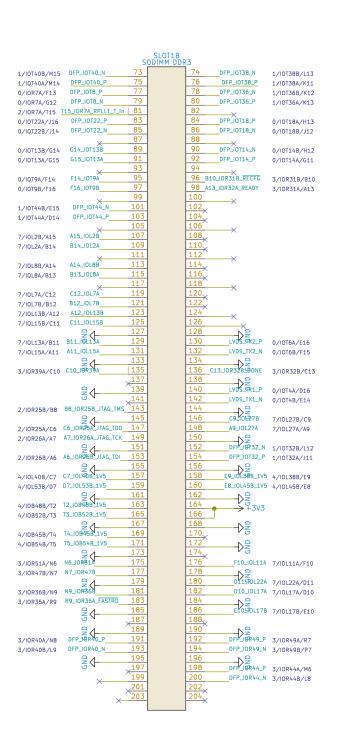
Tang Nano 20K Dock

Version	Date	Change Note	
7101	2022/02/21	First edition	





2/IOR27B/M11 2/IOR8B/T13 2/IOR26A/A7 2/IOR25A/C6 2/IOR26B/A6 2/IOR25B/B8	M11_JOR27B_FPGA_TXO T13_JOR8B_FPGA_RXO T13_JOR8B_ATAG_TCK C6_JOR25A_TAG_TDO A6_JOR26B_JTAG_TDI BB_JOR25B_JTAG_TMS	P001_BI702 >BL702_UART1_RX >BL702_UART4_TX >BL702_JTAG_TCK >BL702_JTAG_TDI >BL702_JTAG_TDI >BL702_JTAG_TMS File: P001_BI702.kicad_sch
0/I0T14A/G11 0/I0T14B/H12 0/I0T18B/H12 0/I0T18A/H13 2/I0R20B/T14 2/I0R20A/R13 2/I0R11B/P13 2/I0R11A/F10 1/I0T36A/K13 1/I0T36B/K12 1/IOT36A/K12	DFP_IOT14_P DFP_IOT14_N DFP_IOT18_P DFP_IOT18_P DFP_IOR20_N DFP_IOR20_N DFP_IOR20_N DFP_IOR31_N DFP_IOR31_P F10_IOL11A DFP_IOT36_P DFP_IOT36_P DFP_IOT38_P T45_IOR7A_RPL14_T_In	P002_USB_PHY DUSB_DATA0 DUSB_DATA1 DUSB_DATA2 DUSB_DATA3 DUSB_DATA4 DUSB_DATA5 DUSB_DATA6 DUSB_DATA7 DUSB_DATA7 DUSB_RESET DUSB_NXT DUSB_DIR DUSB_STP DUSB_STP DUSB_CLKOUT
		File: P002_USB PHY.kicad_sc

		003_Audio
1/IOT48A/N15	LVDS_RX4_P	——DHP_BCK
1/IOT54A/P15	LVDS_RX5_P	—DHP_DIN
1/IOT48B/P16	LVDS_RX4_N	—DHP_WS
1/IOT54B/R16	LVDS_RX5_N	PA EN
		File: P003_Audio.kicad_sch

		P006_LCD
3/IOR40B/L9	DFP_IOR40_N	->RGB_LCD_R0
3/IOR40A/N8	DFP_IOR40_P	->RGB_LCD_R1
3/IOR36B/N9	N9_IOR36B	RGB_LCD_R2
3/IOR47B/N7	N7_IOR47B	->RGB_LCD_R3
3/IOR51A/N6	N6_IOR51A	->RGB_LCD_R4
7/IOL22A/D11	D11_IOL22A	->RGB_LCD_G0
7/IOL15A/A11	A11_IOL15A	->RGB_LCD_G1
7/IOL13A/B11	B11_IOL13A	->RGB_LCD_G1
3/IOR49B/P7	DFP_IOR49_N	->RGB_LCD_G3
3/IOR49A/R7	DFP_IOR49_P	->RGB_LCD_G4
7/IOL17A/D10	D10_IOL17A	-DRGB_LCD_G5
7/IOL7B/B12	B12_IOL7B	->RGB_LCD_B0
7/IOL7A/C12	C12_IOL7A	->RGB_LCD_B1
7/IOL8A/B13	B13_IOL8A	-DRGB_LCD_B2
7/IOL8B/A14	A14_IOL8B	->RGB_LCD_B3
7/IOL2A/B14	B14_IOL2A	->RGB_LCD_B4
3/IOR35A/R9	R9_IOR35A_FASTRD	->RGB_LCD_CLK
7/IOL2B/A15	A15_IOL2B	->RGB_LCD_HSYNC
1/IOT44A/D14	DFP_IOT44_P	->RGB_LCD_VSYNC
1/IOT44B/E15	DFP_IOT44_N	->RGB_LCD_DE
7/IOL17B/E10	E10_I0L17B	->RGB_LCD_BL
0/IOT9A/F14	F14_IOT9A	->TP SDA
0/IOT9B/F16	F16_I0T9B	OTP_SCK
7/IOL15B/C11	C11_IOL15B	CITP INT
7/IOL13B/A12	A12_IOL13B	-DTP_RST
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		008_Carmera
2/IOR17B/T12	DFP_IOR17_N	DVP_D0
2/IOR24A/T11	DFP_IOR24_P	—DDVP_D1
2/IOR24B/P11	DFP_IOR24_N	—DDVP_D2
2/IOR17A/R11	DFP_IOR17_P	DVP_D3
1/IOT40B/M15	DFP_IOT40_N	DDVP_D4
1/IOT40A/M14	DFP_IOT40_P	DVP_D5
0/IOT22A/J16	DFP_IOT22_P	—DDVP_D6
0/IOT22B/J14	DFP_IOT22_N	DVP_D7
		P = 1.
0/IOT9A/F14	F14_IOT9A	DVP SCL
0/IOT9B/F16	F16_I0T9B	→DVP_SDA
0/IOR7A/F13	DFP_IOT8_P	—KIDVP_PCLK
0/IOR7A/G12	DFP_IOT8_N	DVP_XCLK
1/IOT38B/L13	DFP_IOT38_N	DVP_RST
0/IOT13A/G15	G15_IOT13A	
3/IOR39A/C10	C10_IOR39A	DVP_PWDN
0/IOT13B/G14	G14_IOT13B	— IDVP_HSYNC
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3/10R42B/T8 3/10R29B/R8 3/10R29A/T7 3/10R53A/P6 3/10R53B/T6 3/10R38B/P9 3/10R38A/T9	DFP_IOR42_N DFP_IOR29_N DFP_IOR29_P DFP_IOR53_P DFP_IOR53_N DFP_IOR38_N DFP_IOR38_P	DMIC_DAT1 DMIC_DAT2 DMIC_DAT3 DMIC_WS DMIC_BCK DMIC_LED_CLK DWS2812-DAT	
3/10R35B/T10 4/10B52B/T3 4/10B48B/T2 4/10L53B/D7 4/10L40B/C7	T10_IOR35B_FPGA_RST T3_IOB52B_1V5 T2_IOB48B_1V5 D7_IOL53B_1V5 C7_IOL40B_1V5	OSIlicone Key_1 OSIlicone Key_2 OSIlicone Key_3 OSIlicone Key_4 OSIlicone Key_5	
3/IOR32B/C13 3/IOR31A/A13 1/IOT52A/N16 1/IOT52B/N14 1/IOT34B/L14 1/IOT34A/L16	C13_IOR32B_DONE A13_IOR32A_READY LVDS_RX3_P LVDS_RX3_N LVDS_RX2_N LVDS_RX2_P	Orange_LED0 Dorange_LED1 Orange_LED3 Dorange_LED2 Orange_LED4 Orange_LED5	
3/IOR31B/B10 4/IOL38B/E9 4/IOL45B/E8 4/IOB45B/T4	B10_IOR31B_RECFG E9_IOL38B_1V5 E8_IOL45B_1V5 T4_IOB45B_1V5	DSW1 DSW2 DSW3 DSW4	

P004_HDMI

>HDMI_TXO_N

>HDMI_TX1_N

>HDMI_TX2_N >HDMI_TXC_P

SHDMI CEC

>HDMI_SCL

>RTL_PHY_TXEN

RTL_PHY_RST

RTL_PHY_MDIO

SRTI PHY RXD1

RTL PHY RXER

>RTL_PHY_TXCLK

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13

File: P004_HDMI.kicad_sch

0/10T24A/J15 LVDS_TX5_P

1/IOT30A/K14 LVDS_RX1_P

1/IOT32A/J11 DFP_IOT32_F

1/I0T32B/L12 <u>DFP_IOT32_N</u>

0/IOT4A/D16 LVDS_TX1_P

0/IOT4B/E14 LVDS_TX1_N

7/IOL114/F10 F10_IOL11A

0/IOT9A/F14 F14_IOT9A

0/IOT9B/F16 F16_IOT9B

0/IOT6B/F15 LVDS_TX2_N

3/IOR44A/M6 DFP_IOR44_P

3/IOR42A/P8 DFP_IOR42_P

7/I0L27A/A9 A9_I0L27A

0/IOT9A/F14 F14_IOT9A

0/IOT24B/K16

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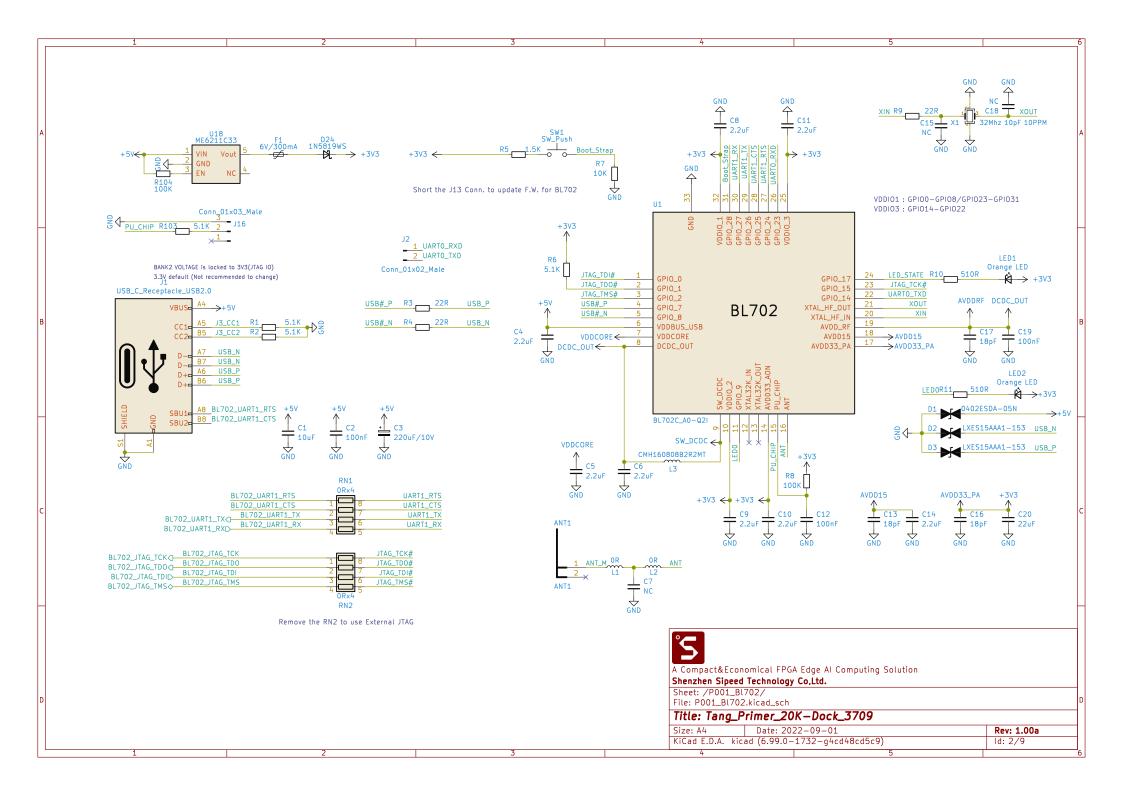
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Shenzhen Sipeed Technology Co,Ltd.

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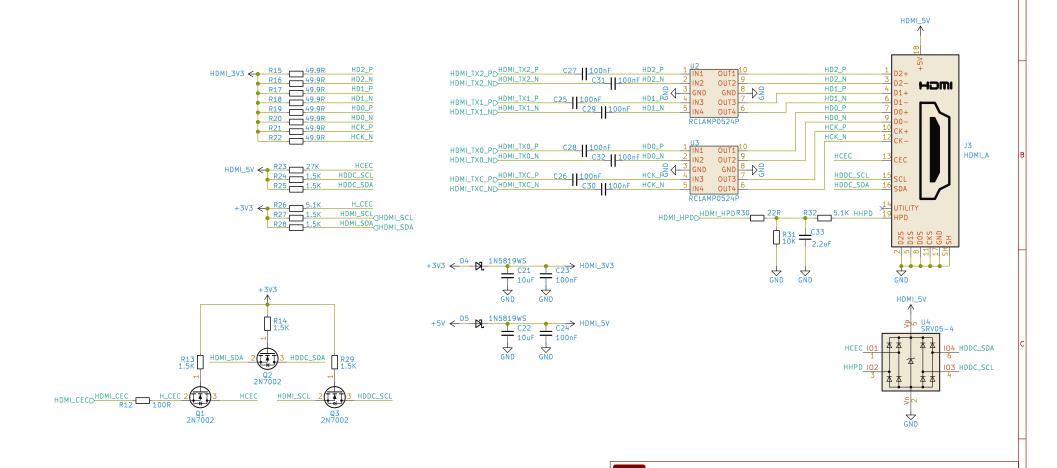
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Rev: 1.00a

ld: 5/9

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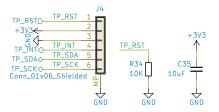
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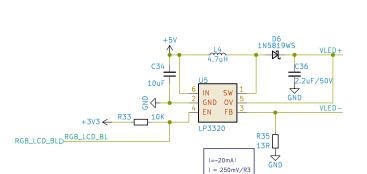
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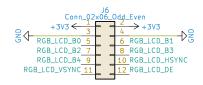
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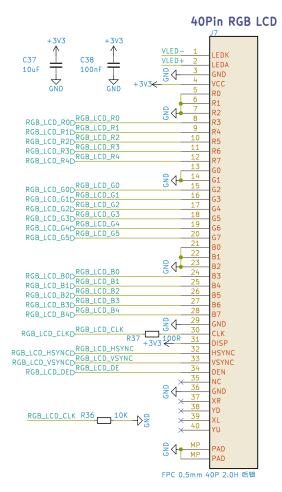
RGB LCD











S

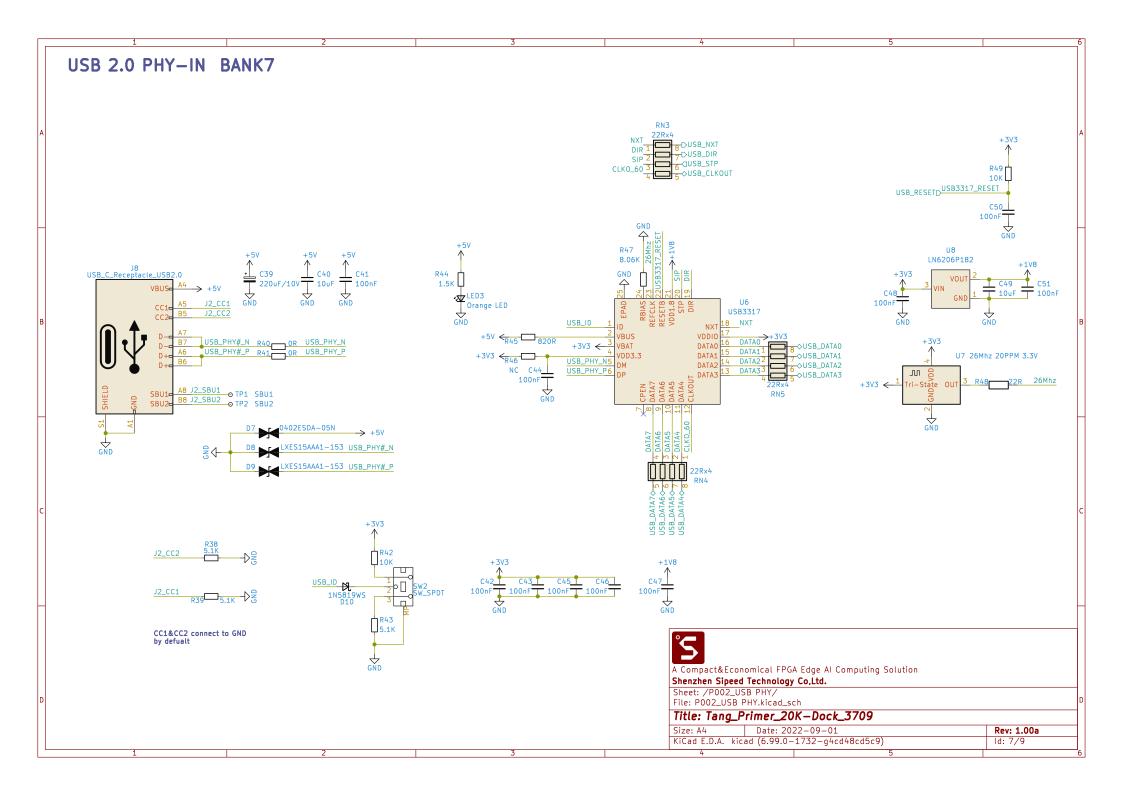
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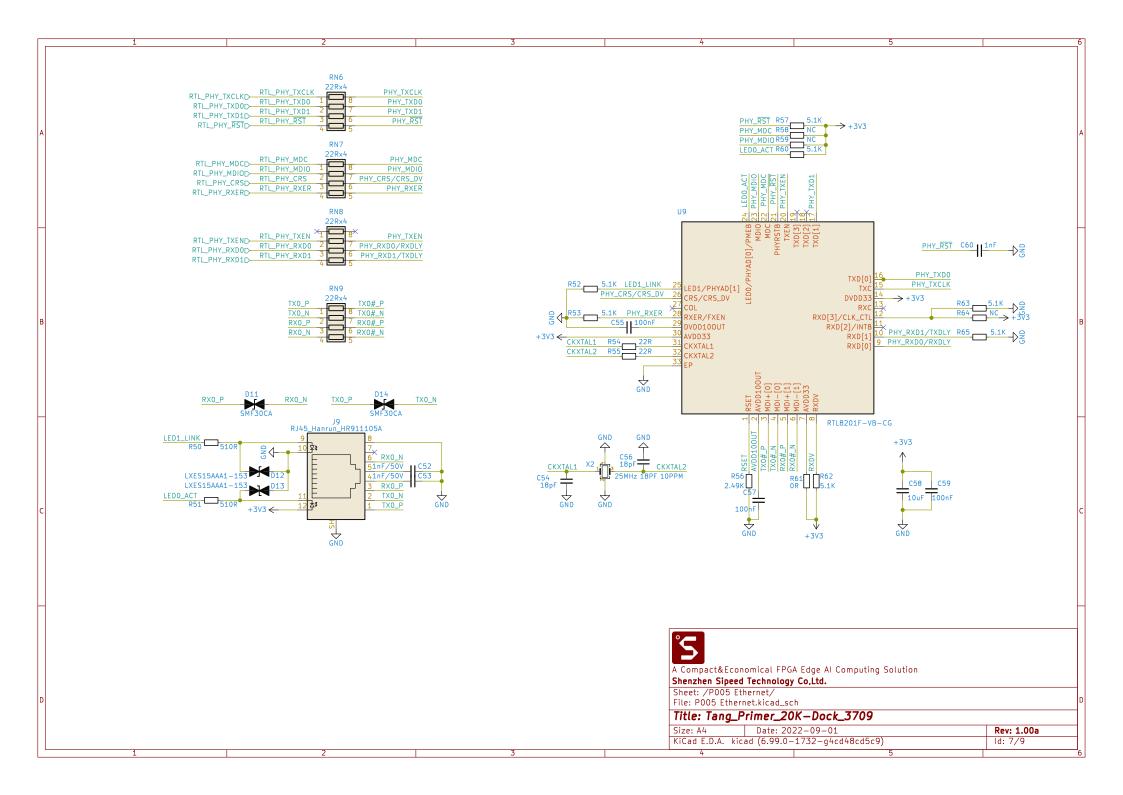
Shenzhen Sipeed Technology Co,Ltd.

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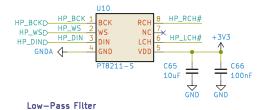
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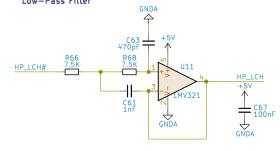


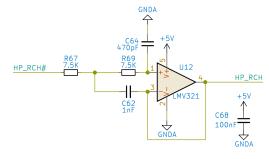


Audio

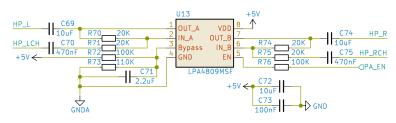
STEREO DAC





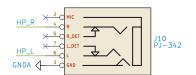


HEADPHONE AMP.





HEADPHONE AMP.





When the jack is unpluged, L/R_DET is connected to L/R_s .



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Sheet: /003_Audio/ File: P003_Audio.kicad_sch

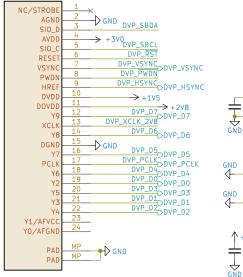
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 Date: 2022-09-01
 Rev: 1.00a

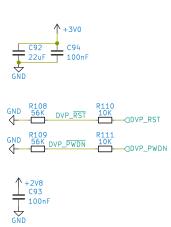
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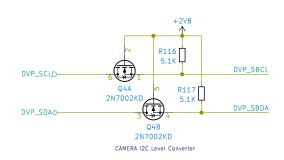
DVP Carmera

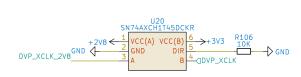


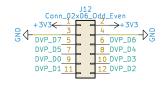


DOVDD refers to I/O Bank voltage



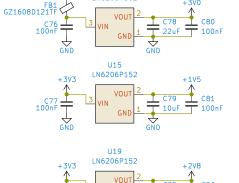






U14

LN6206P302





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Tite: P006_Cariffera.kicad_scii

Size: A4	Date: 202	22-09-01		Rev: 1.00a	
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