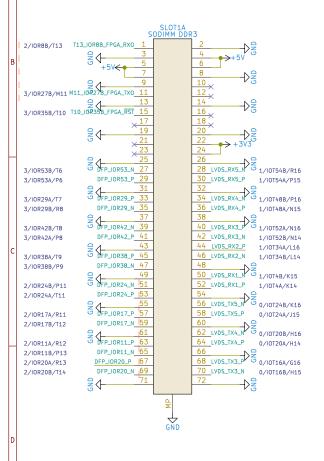
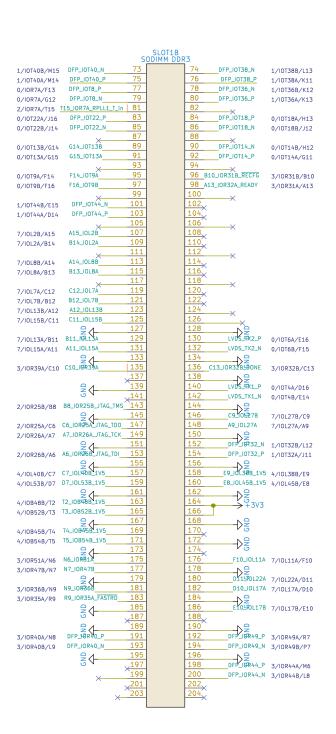
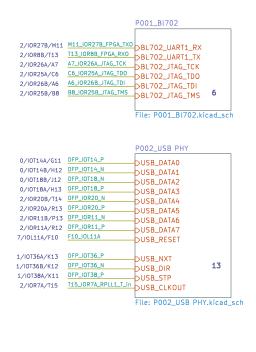
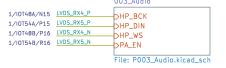
# Tang Nano 20K Dock

Version Hist	Date	Change Note
7101	2022/02/21	First edition
	<u> </u>	









		P006_LCD
3/IOR40B/L9	DFP_IOR40_N	->RGB_LCD_R0
3/IOR40A/N8	DFP_IOR40_P	->RGB_LCD_R0
3/IOR36B/N9	N9_IOR36B	RGB_LCD_R1
3/IOR47B/N7	N7_IOR47B	DRGB_LCD_R3
3/IOR51A/N6	N6_IOR51A	DRGB_LCD_R4
		D KOB_ECD_K4
7/IOL22A/D11	D11_IOL22A	->RGB_LCD_G0
7/IOL15A/A11	A11_IOL15A	RGB_LCD_G1
7/IOL13A/B11	B11_I0L13A	RGB LCD G2
3/IOR49B/P7	DFP_IOR49_N	->RGB LCD G3
3/IOR49A/R7	DFP_IOR49_P	->RGB_LCD_G4
7/IOL17A/D10	D10_IOL17A	RGB_LCD_G5
7/IOL7B/B12	B12_IOL7B	->RGB_LCD_B0
7/IOL7A/C12	C12_IOL7A	⇒RGB_LCD_B1
7/IOL8A/B13	B13_IOL8A	RGB_LCD_B2
7/IOL8B/A14	A14_IOL8B	RGB_LCD_B3
7/IOL2A/B14	B14_IOL2A	->RGB_LCD_B4
3/10R35A/R9	R9_IOR35A_FASTRD	RGB_LCD_CLK 25
7/I0L2B/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_IOT9B	♦TP_SCK
7/IOL15B/C11	C11_IOL15B	TP_INT
7/IOL13B/A12	A12_I0L13B	->TP_RST
		File: P006 LCD.kicad sch
		THE. FOOD_LCD.KICAG_SCII

		008_Carmera	
2/10R17B/T12 2/10R24A/T11 2/10R24B/P11 2/10R17A/R11 1/10T40B/M15 1/10T40A/M14 0/10T22A/J16 0/10T22B/J14	DFP_IOR17_N DFP_IOR24_P DFP_IOR24_N DFP_IOR17_P DFP_IOT40_N DFP_IOT40_P DFP_IOT22_P DFP_IOT22_N	DVP_D0  DVP_D1  DVP_D2  DVP_D3  DVP_D4  DVP_D5  DVP_D6  DVP_D6  DVP_D7	
0/IOT9A/F14 0/IOT9B/F16 0/IOR7A/F13 0/IOR7A/G12 1/IOT3BB/L13 0/IOT13A/G15 3/IOR39A/C10 0/IOT13B/G14	F14_IOT9A F16_IOT9B DFP_IOT8_P DFP_IOT8_N DFP_IOT38_N G15_IOT13A C10_IOR39A G14_IOT13B	DVP_SCL DVP_SDA DVP_PCLK DVP_XCLK DVP_XCLK DVP_XST DVP_VSYNC DVP_PWDN DVP_HSYNC File: POOB Car	16

3/10R42A/P8 3/10R42B/T8 3/10R29B/R8 3/10R29A/T7 3/10R53A/P6 3/10R53B/T6	DFP_IOR42_P DFP_IOR42_N DFP_IOR29_N DFP_IOR30_P DFP_IOR30_N DFP_IOR30_N	007_Things  DMIC_DAT0  DMIC_DAT1  DMIC_DAT2  DMIC_DAT3  DMIC_BCK
3/10R38A/T9	DFP_IOR38_P	->MIC_LED_CLK ->WS2812-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	DSilicone Key_1 DSilicone Key_2 DSilicone Key_3 DSilicone Key_4 DSilicone 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 ->Orange_LED1 ->Orange_LED3 ->Orange_LED2 ->Orange_LED4 ->Orange_LED5
3/I0R31B/B10 4/I0L38B/E9 4/I0L45B/E8 4/I0B45B/T4 4/I0B54B/T5	B10_IOR31B_RECFG E9_IOL38B_1V5 E8_IOL45B_1V5 T4_IOB45B_1V5 T5_IOB54B_1V5	DSW1 DSW2 DSW3 DSW4 DSW5

P004\_HDMI

>HDMI\_TX0\_N

HDMLTX1 N

>HDMI\_TX2\_N >HDMI\_TXC\_P

HDMI CEC

>HDMI\_SCL

RTL\_PHY\_TXD1

>RTL\_PHY\_TXEN

RTL\_PHY\_RST

RTL\_PHY\_MDIO

SRTI PHY RXD1

RTL PHY RXER

>RTL\_PHY\_TXCLK

File: P005 Ethernet.kicad\_sch

File: P004\_HDMI.kicad\_sch

12

13

0/I0T20A/H14 <u>LVDS\_TX4\_P</u> 0/IOT20B/H16 LVDS\_TX4\_N

0/10T24A/J15 LVDS\_TX5\_P

1/IOT30A/K14 LVDS\_RX1\_P

0/IOT16A/G16 LVDS\_TX3\_P 0/I0T16B/H15 LVDS\_TX3\_N

1/IOT32A/J11 DFP\_IOT32\_F

1/I0T32B/L12 <u>DFP\_IOT32\_N</u>

0/10T4A/D16 LVDS\_TX1\_P

0/IOT4B/E14 LVDS\_TX1\_N

7/IOI 114/F10 F10\_IOL11A

0/IOT9B/F16 F16\_IOT9B

0/IOT6B/F15 LVDS\_TX2\_N

3/IOR44A/M6 DFP\_IOR44\_P

7/IOL27A/A9 A9\_IOL27A

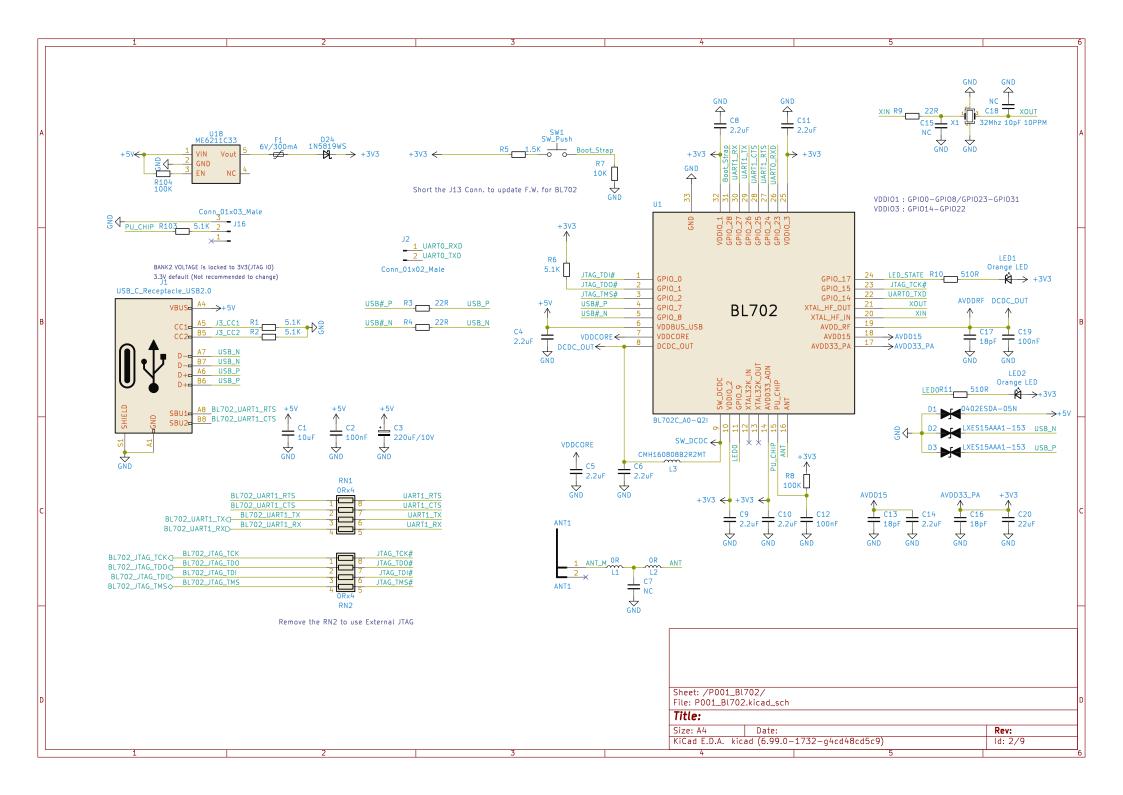
0/IOT9A/F14

0/IOT9A/F14 F14\_IOT9A

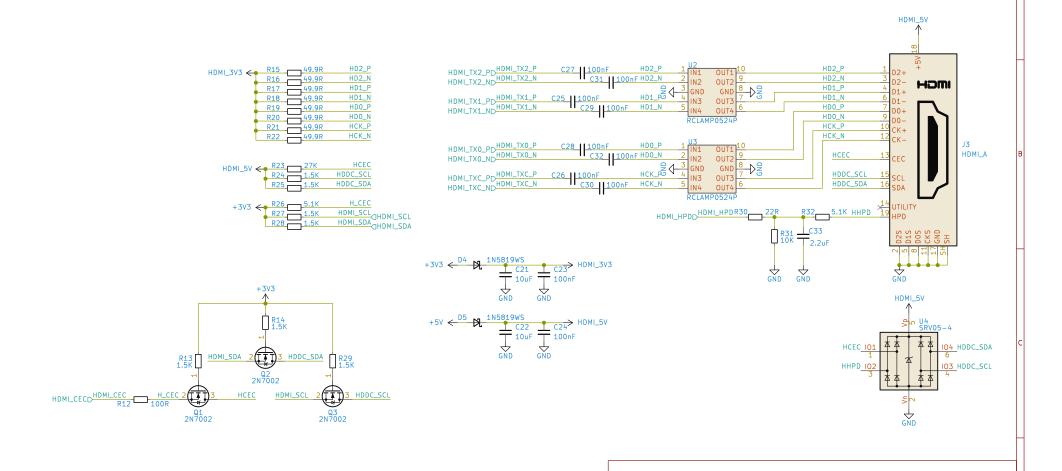
0/IOT24B/K16

File: P007\_Things.kicad\_sch

File: Tang\_Primer\_20K\_Dock\_3708.kicad\_sch Size: A3 Date: KiCad E.D.A. kicad (6.99.0-1732-g4cd48cd5c9)







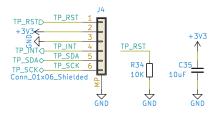
Sheet: /P004\_HDMI/ File: P004\_HDMI.kicad\_sch

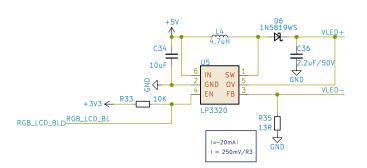
Size: A4 Date: KiCad E.D.A. kicad (6.99.0-1732-g4cd48cd5c9)

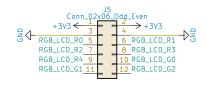
Id: 5/9

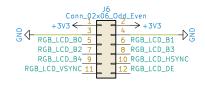
Title:

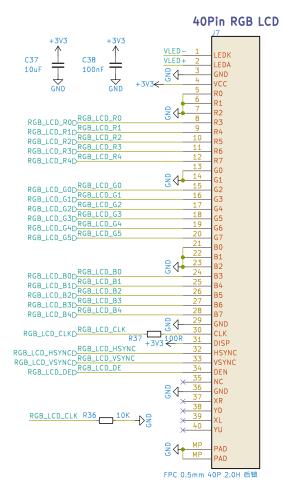










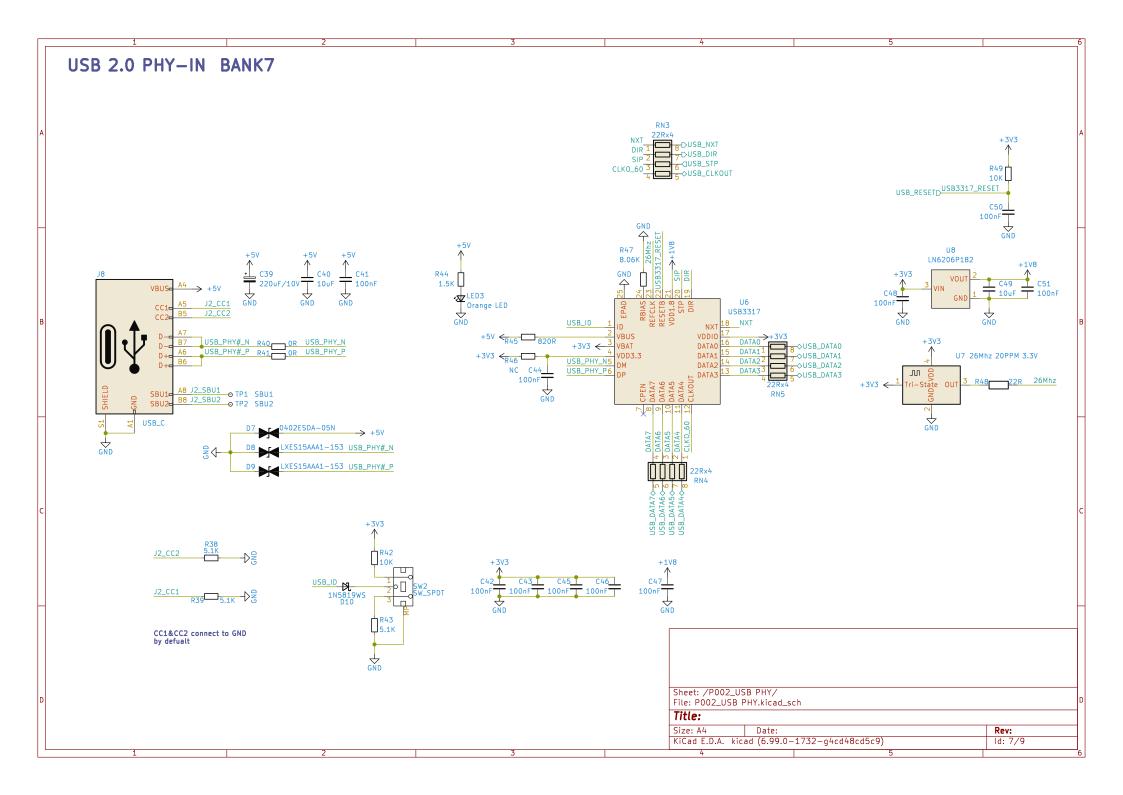


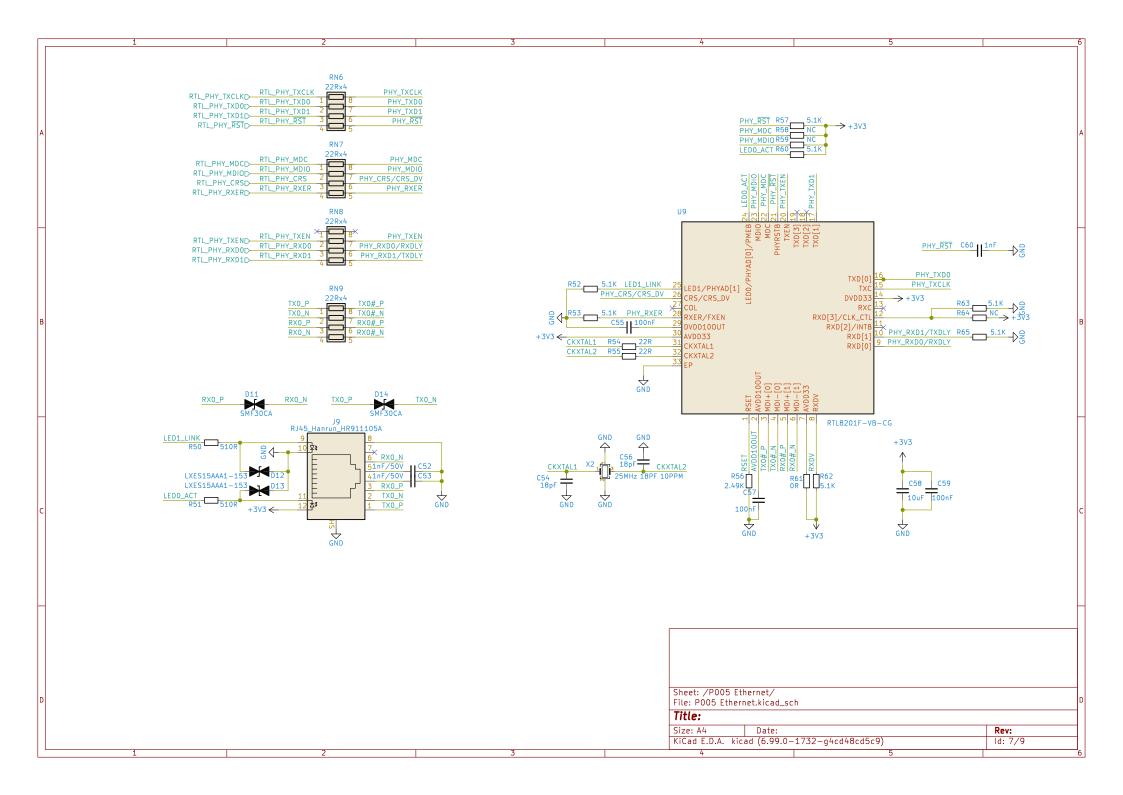
Sheet: /P006\_LCD/ File: P006\_LCD.kicad\_sch

Title:

 Size: A4
 Date:
 Rev:

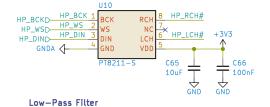
 KiCad E.D.A. kicad (6.99.0-1732-g4cd48cd5c9)
 Id: 6/9

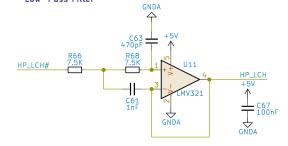


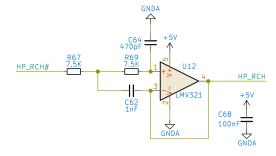


## Audio

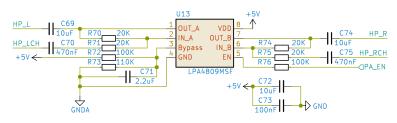
#### STEREO DAC





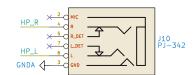


#### HEADPHONE AMP.





#### HEADPHONE AMP.





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

Sheet: /003\_Audio/

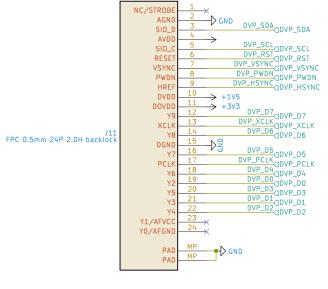
File: P003\_Audio.kicad\_sch

Title:

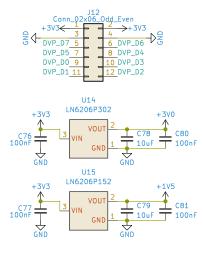
 Size: A4
 Date:
 Rev:

 KiCad E.D.A. kicad (6.99.0-1732-g4cd48cd5c9)
 Id: 8/9

### **DVP** Carmera



NOTICE: DOVDD refers to I/O Bank voltage



| | Sheet: /008\_Carmera/ | File: P008\_Carmera.kicad\_sch

Title:

Size: A4	Date:	Rev:
KiCad E.D.A.	kicad (6.99.0-1732-g4cd48cd5c9)	ld: 9/9

