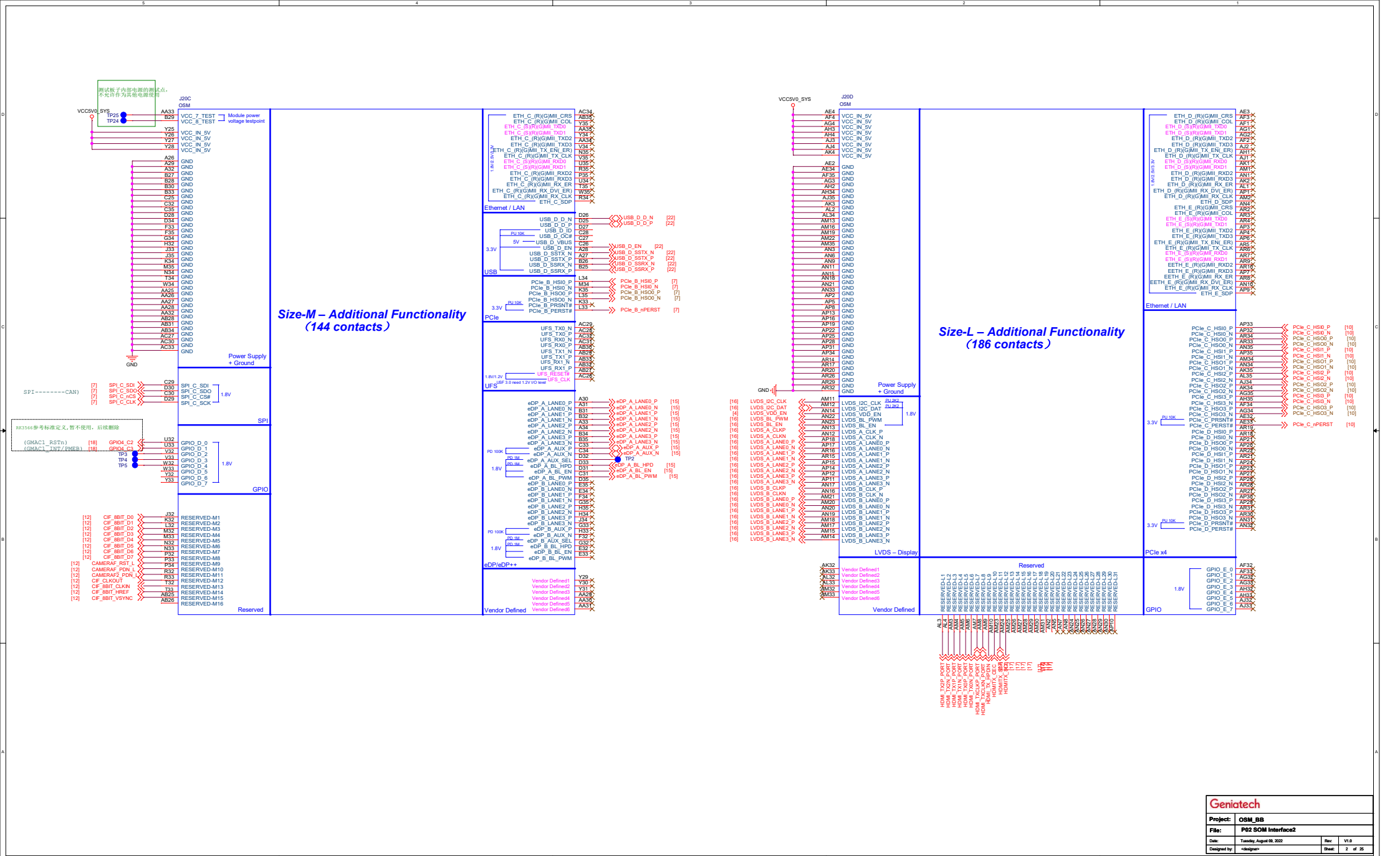
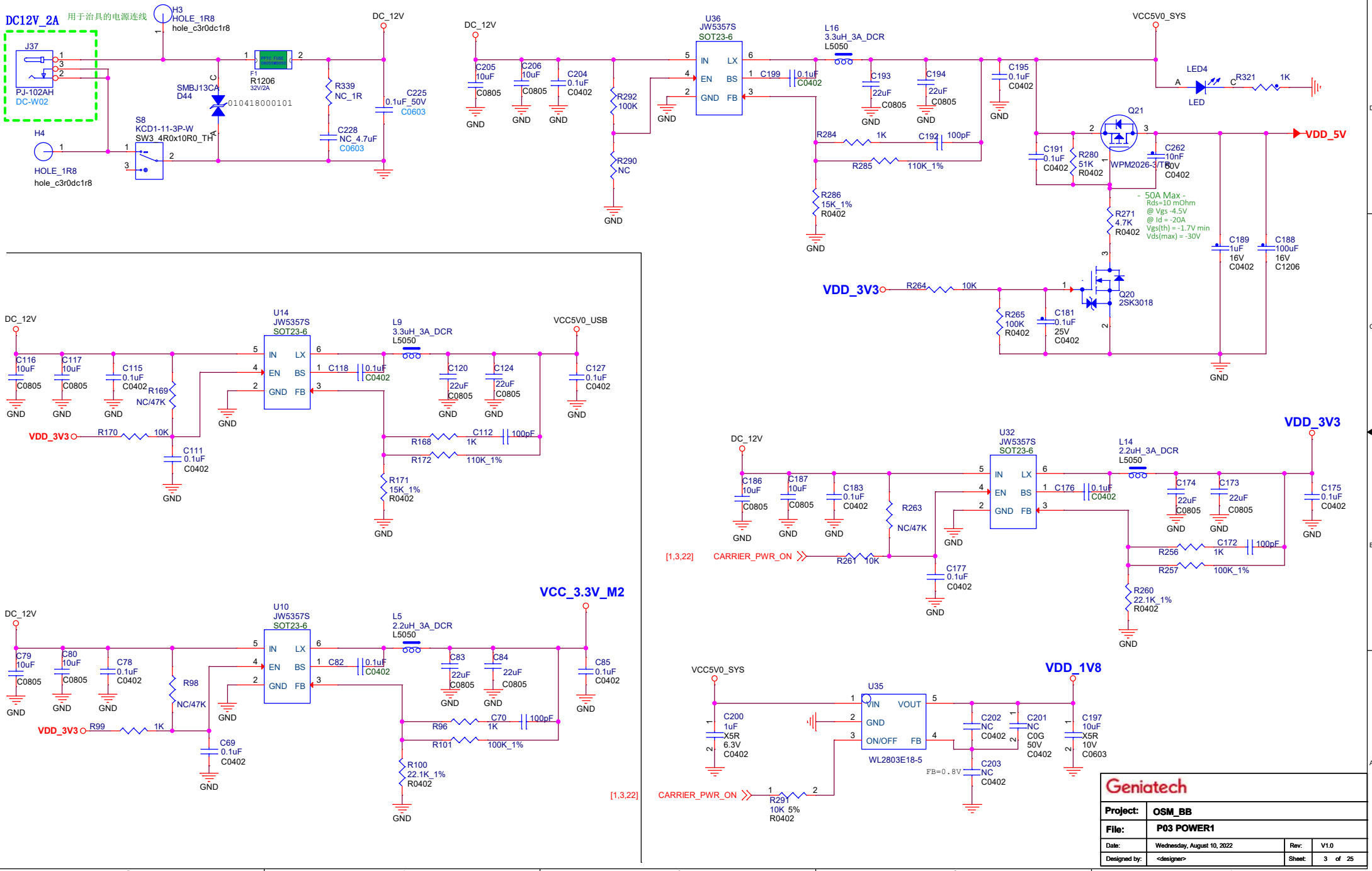
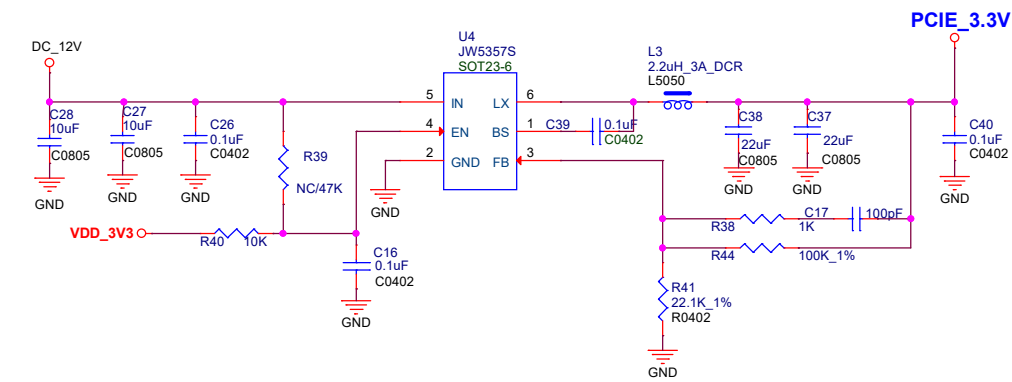
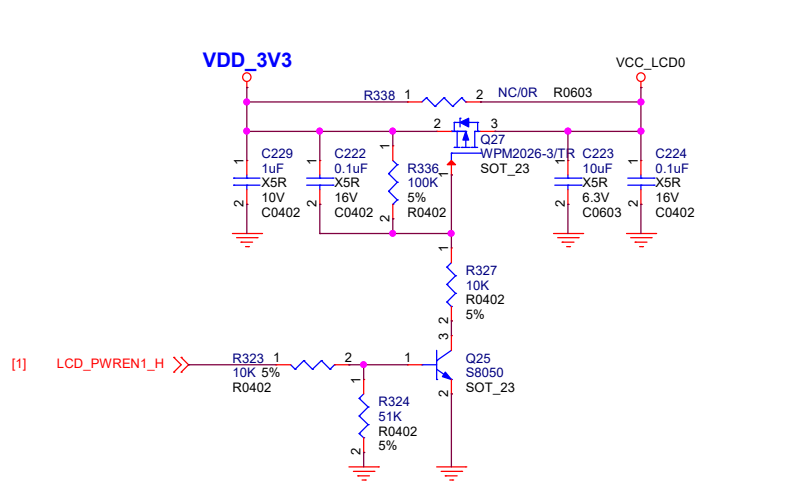




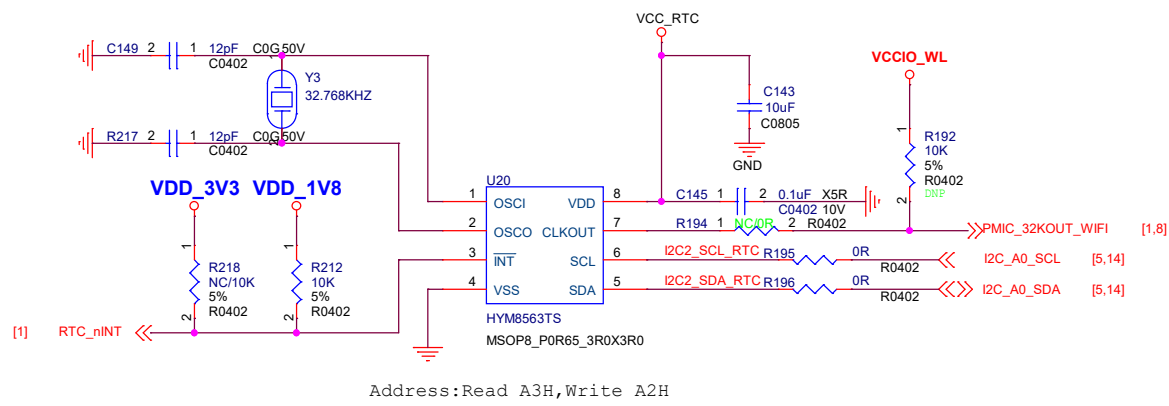
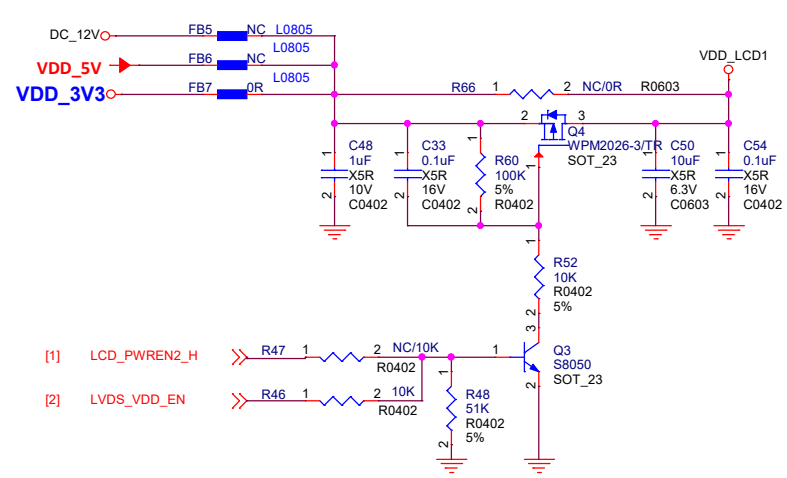


Geniatech			
Project:	OSM_BB		
File:	P03 POWER1		
Date:	Wednesday, August 10, 2022	Rev:	V1.0
Designed by:	<designer>	Sheet:	3 of 25

Power for MIPI/LVDS/eDP Panel

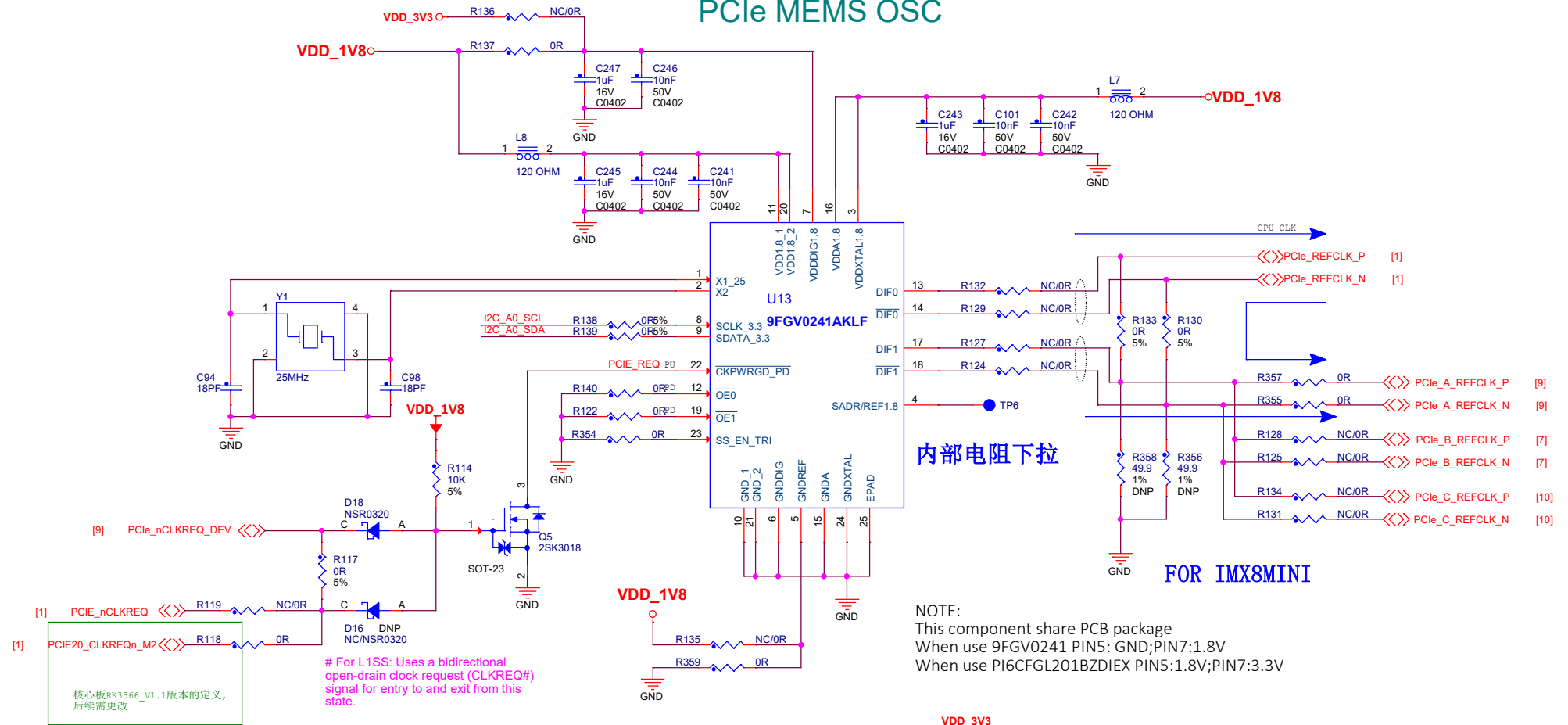


RTC IC

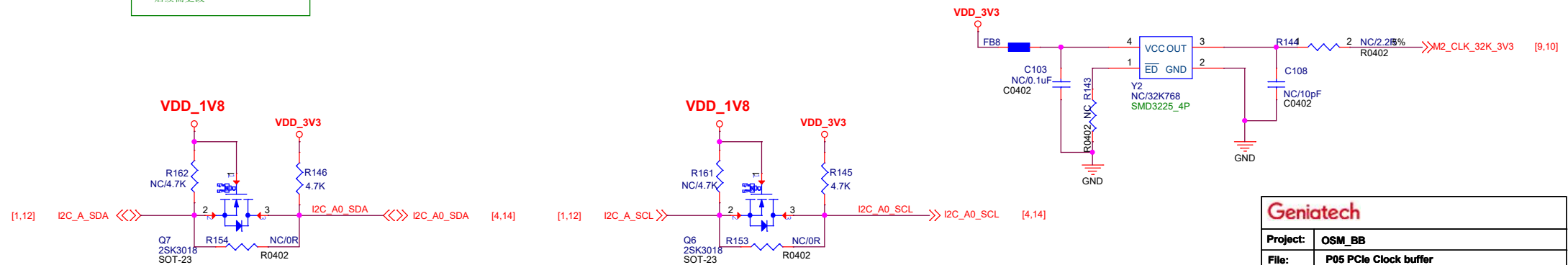


Geniatech			
Project:	OSM_BB		
File:	P04 POWER,RTC		
Date:	Wednesday, August 10, 2022	Rev:	V1.0
Designed by:	<designer>	Sheet:	4 of 25

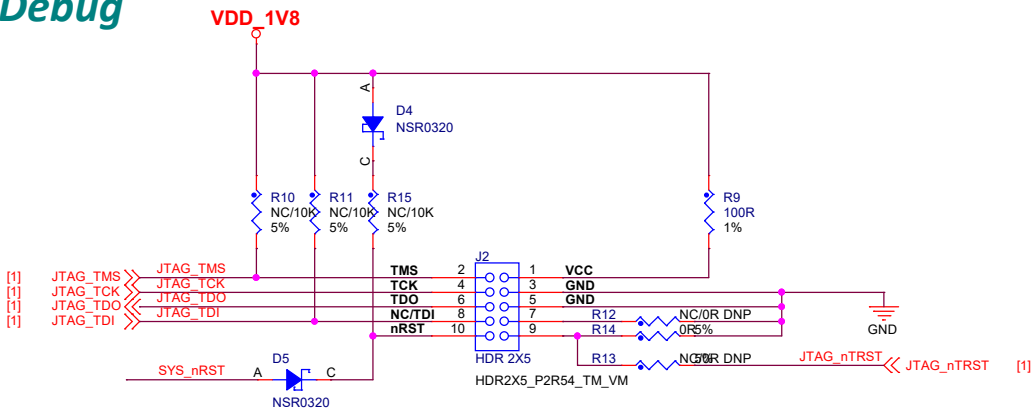
PCIe MEMS OSC



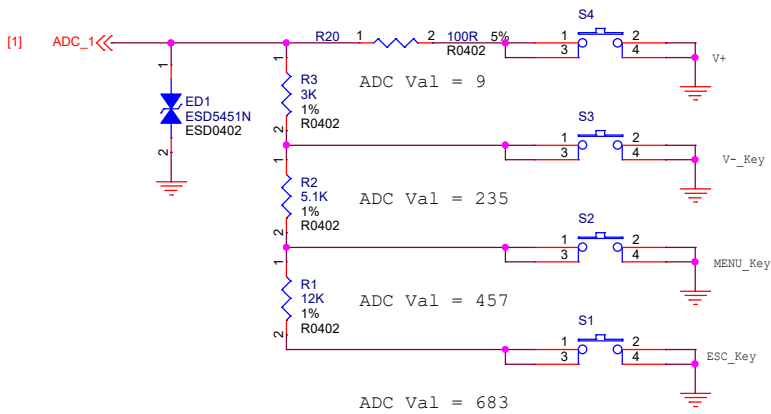
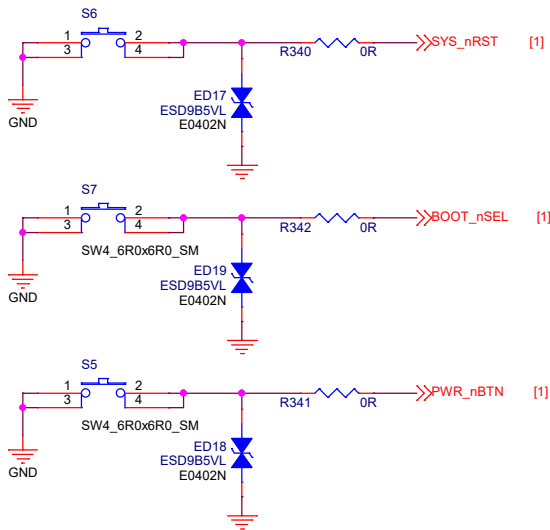
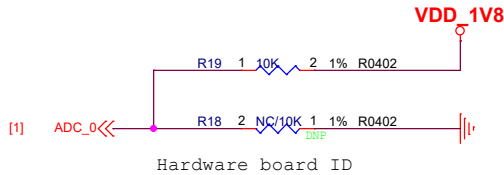
NOTE:
This component share PCB package
When use 9FGV0241 PIN5: GND;PIN7:1.8V
When use PI6CFLG201BZDIEX PIN5:1.8V;PIN7:3.3V



JTAG Debug



SARADC_VIN1_HW_ID	Rup	Rdown	ADC	
Version 1	10K	DNP	1023	1.8V
Version 2	20K	100K	852	1.5V
Version 3	18K	36K	681	1.2V
Version 4	51K	51K	512	0.9V
Version 5	36K	18K	340	0.6V
Version 6	100K	20K	170	0.3V
Version 7	DNP	10K	0	0V



Geniatech			
Project:	OSM_BB		
File:	P06 Debug,KEY		
Date:	Wednesday, August 10, 2022	Rev:	V1.0
Designed by:	<designer>	Sheet:	6 of 25

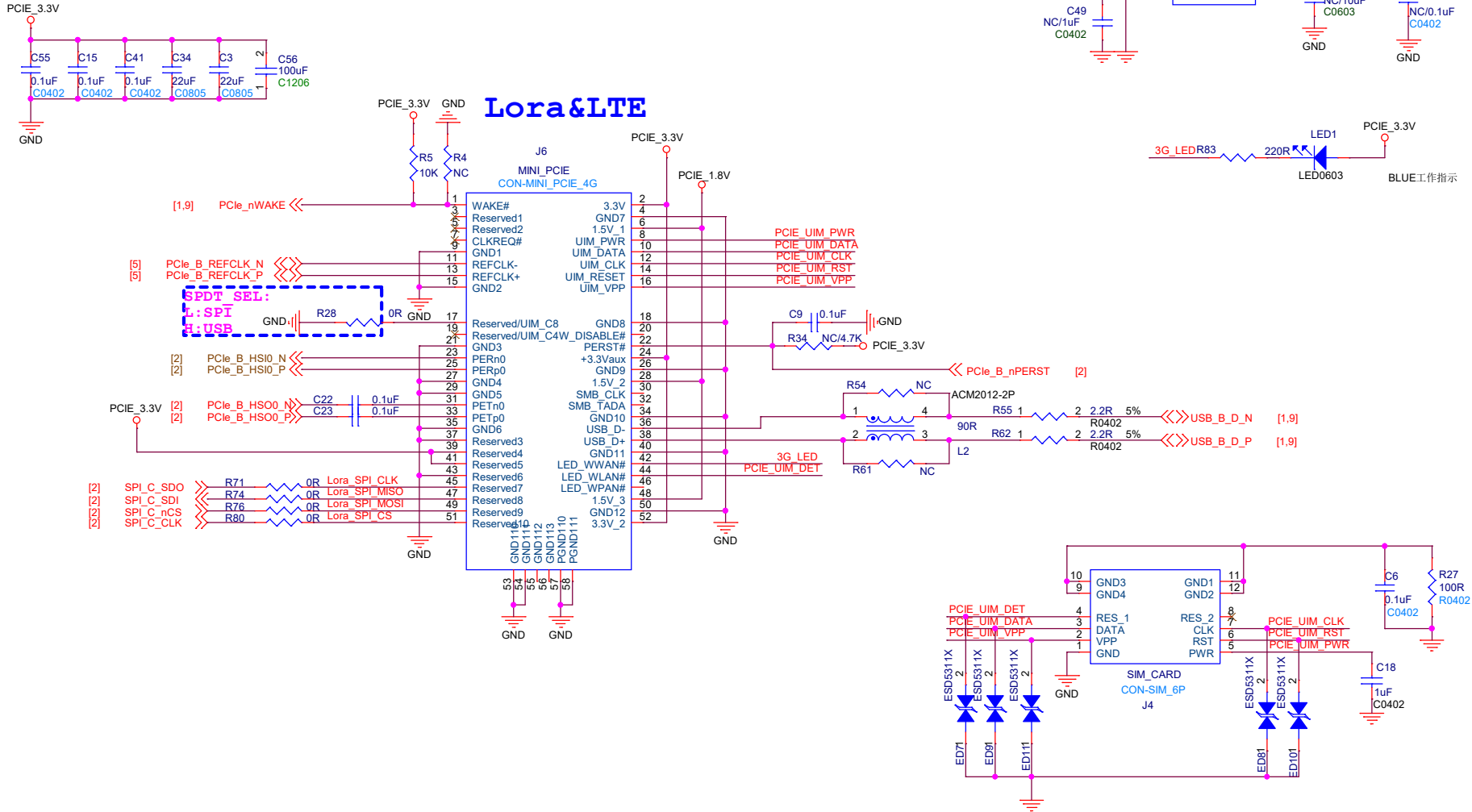
5

4

3

2

1



Geniatech			
Project:	OSM_BB		
File:	P07 LTE&Lora module		
Date:	Wednesday, August 10, 2022	Rev:	V1.0
Designed by:	<designer>	Sheet:	7 of 25

5

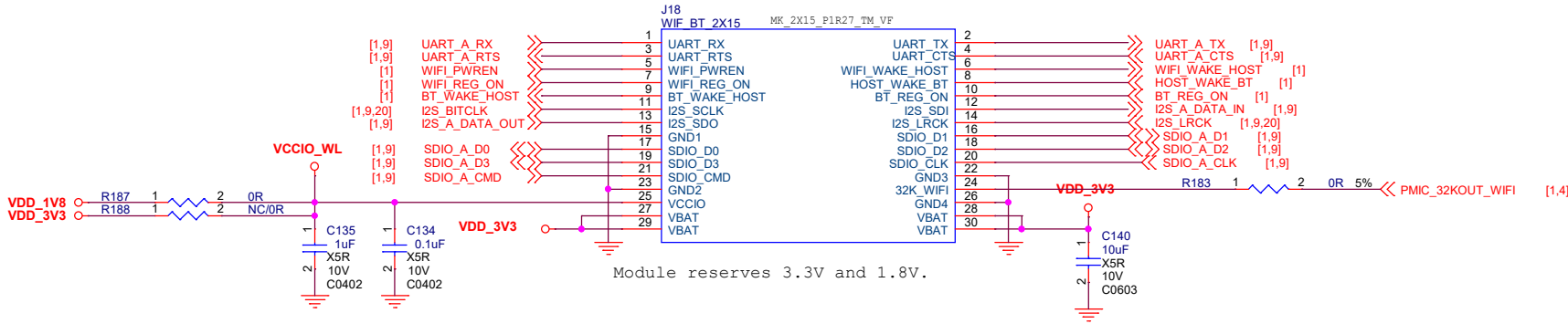
4

3

2

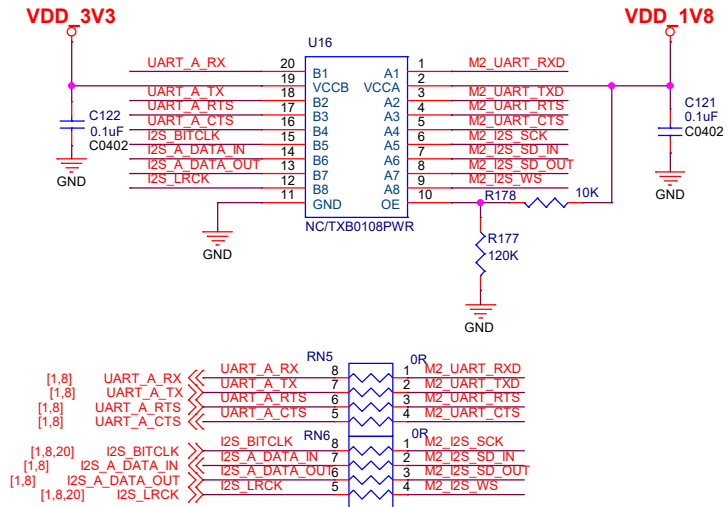
1

WIFI/BT Module

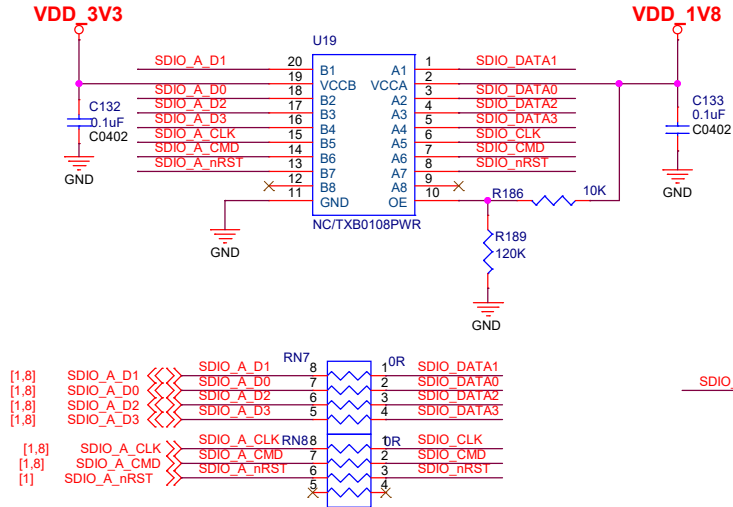


Geniatech			
Project:	OSM_BB		
File:	P08 Module WIFI+BT		
Date:	Wednesday, August 10, 2022	Rev:	V1.0
Designed by:	<designer>	Sheet:	8 of 25

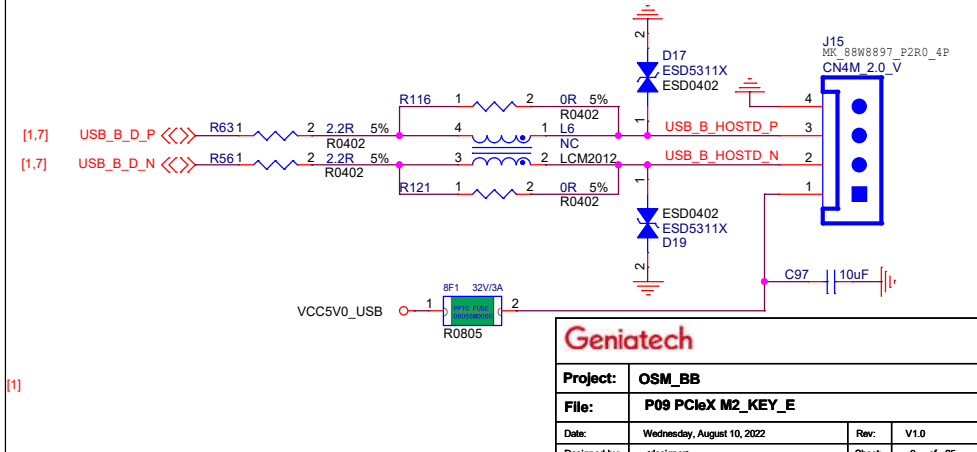
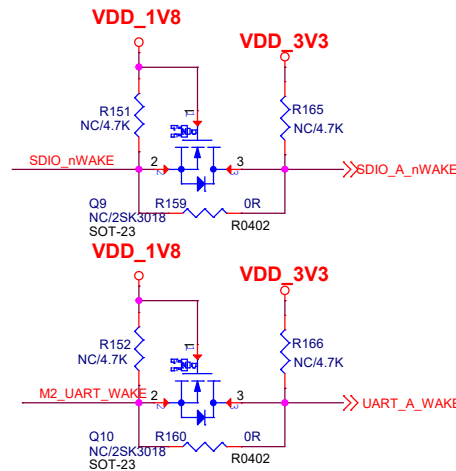
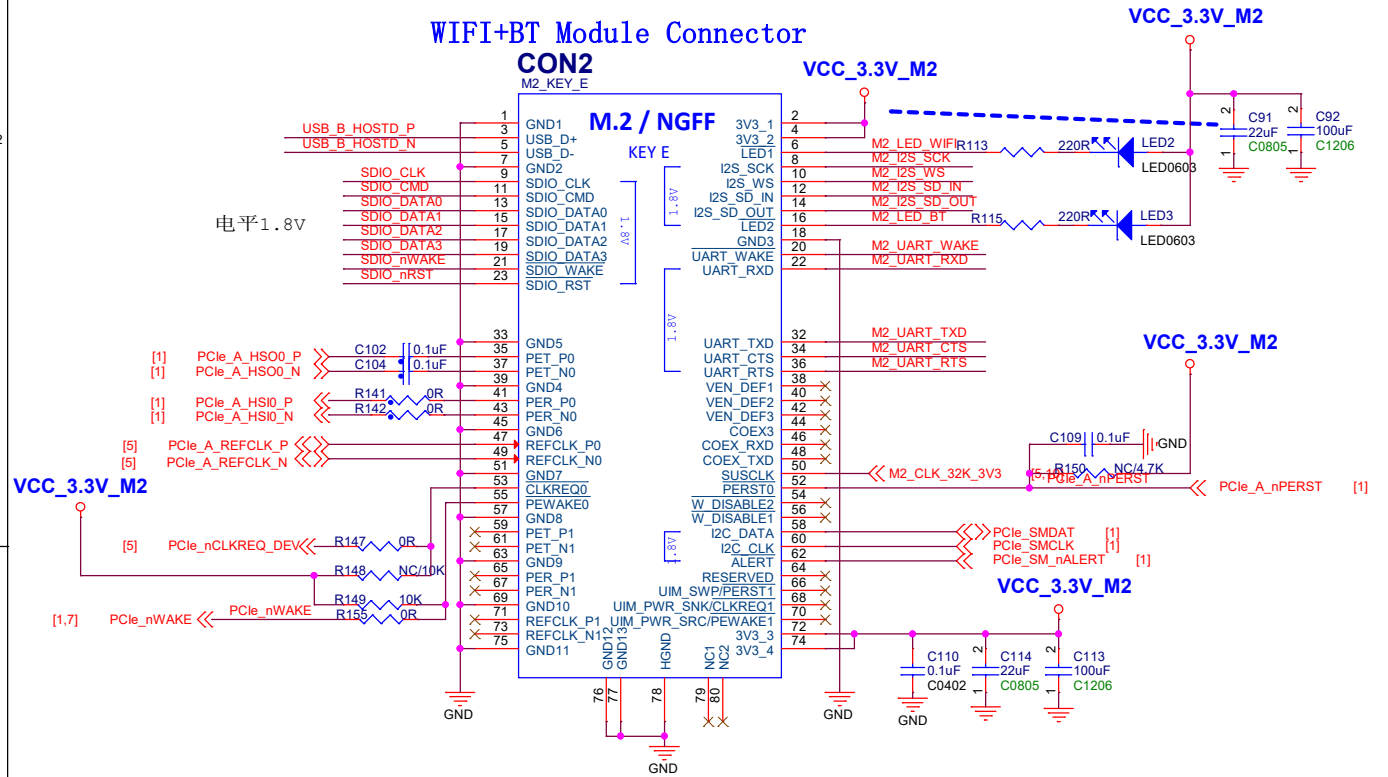
选用OSM_RS-G2L, 使用电平转换



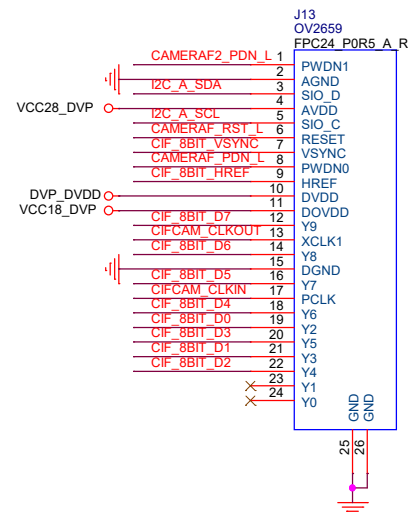
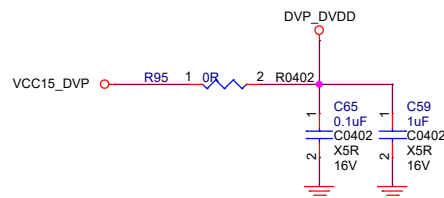
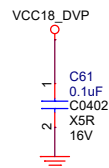
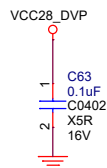
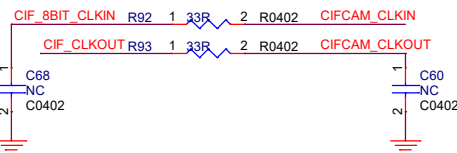
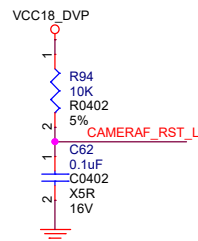
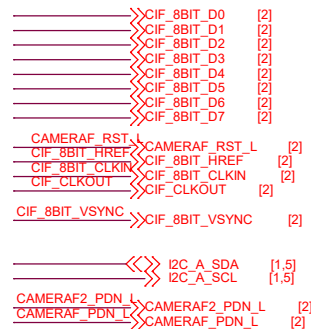
选用OSM_RS-G2L, 使用电平转换



WIFI+BT Module Connector

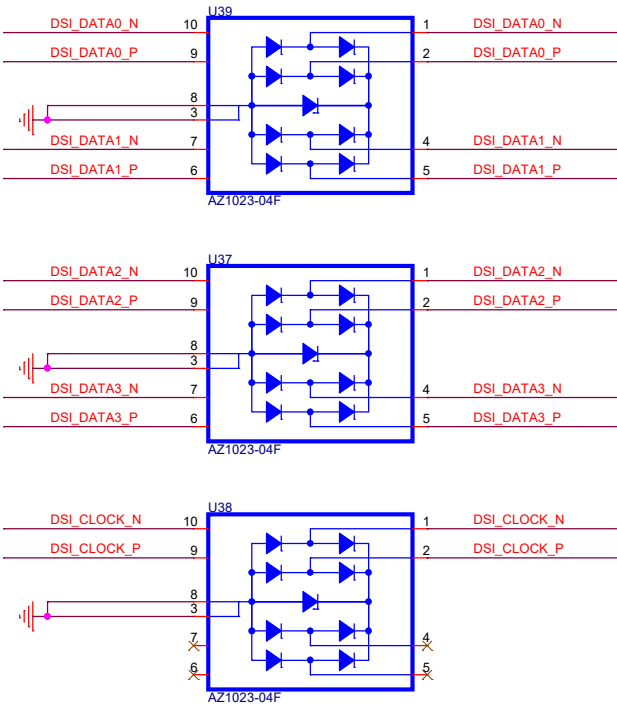
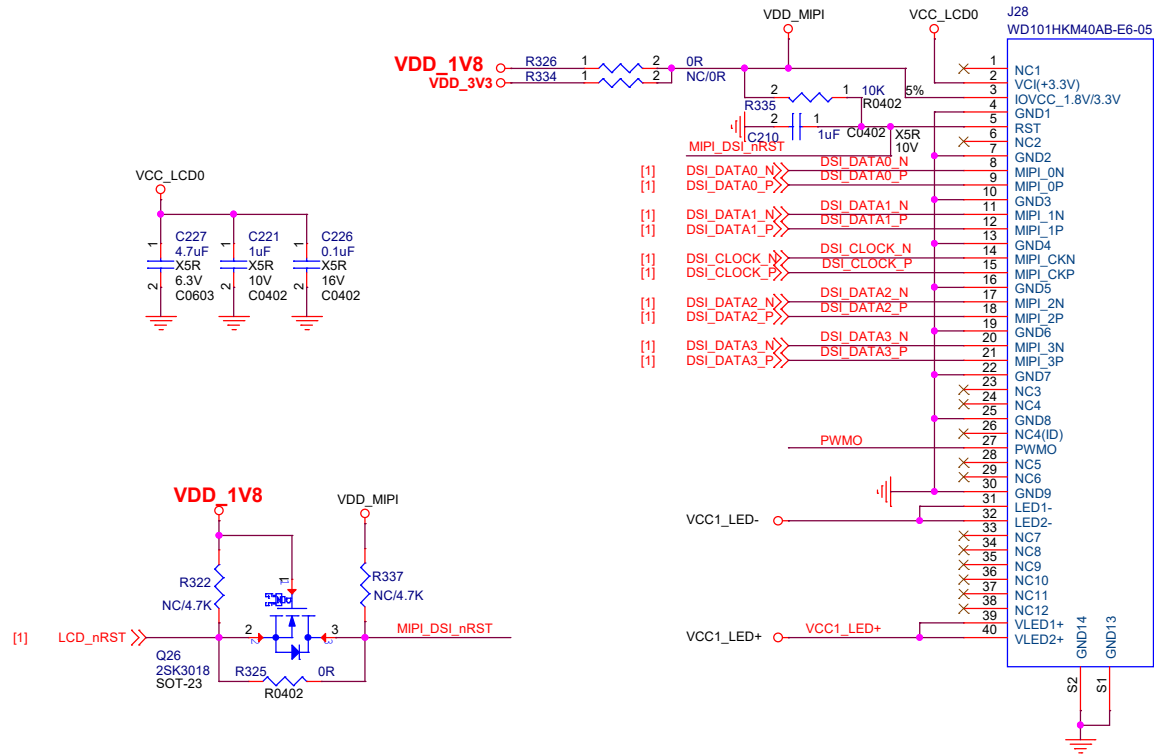


Geniatech			
Project:	OSM_BB		
File:	P09 PCIeX M2_KEY_E		
Date:	Wednesday, August 10, 2022	Rev:	V1.0
Designed by:	<designer>	Sheet:	9 of 25



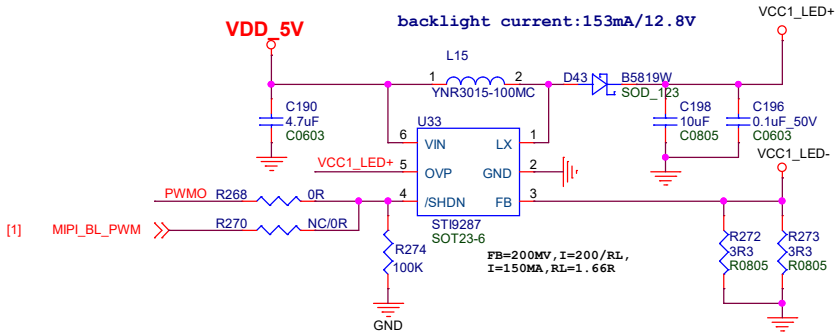
Geniatech			
Project:	OSM_BB		
File:	P12 Camera_CIF		
Date:	Tuesday, August 09, 2022	Rev:	V1.0
Designed by:	<designer>	Sheet:	12 of 25

MIPI Panel

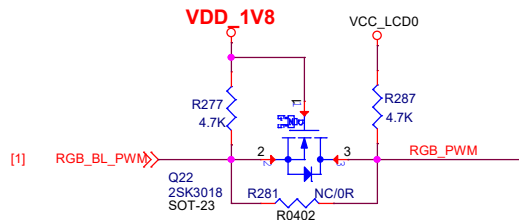
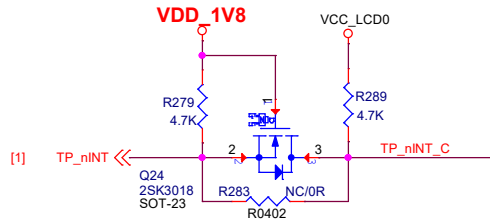
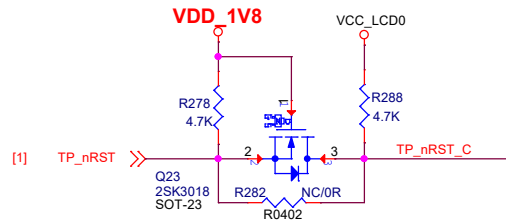


选用呆滞物料010415000901

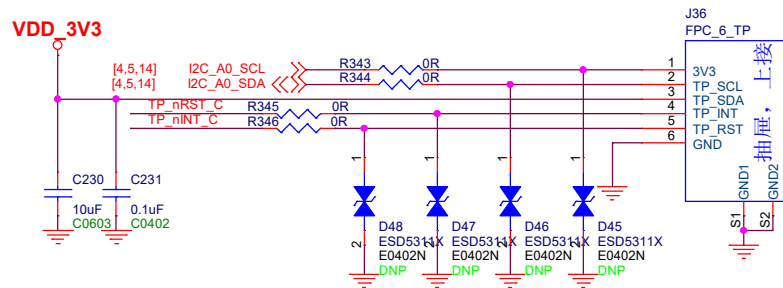
LED Backlight



Geniatech			
Project:	OSM_BB		
File:	P13 DSI LCD		
Date:	Thursday, August 11, 2022	Rev:	V1.0
Designed by:	<designer>	Sheet:	13 of 25

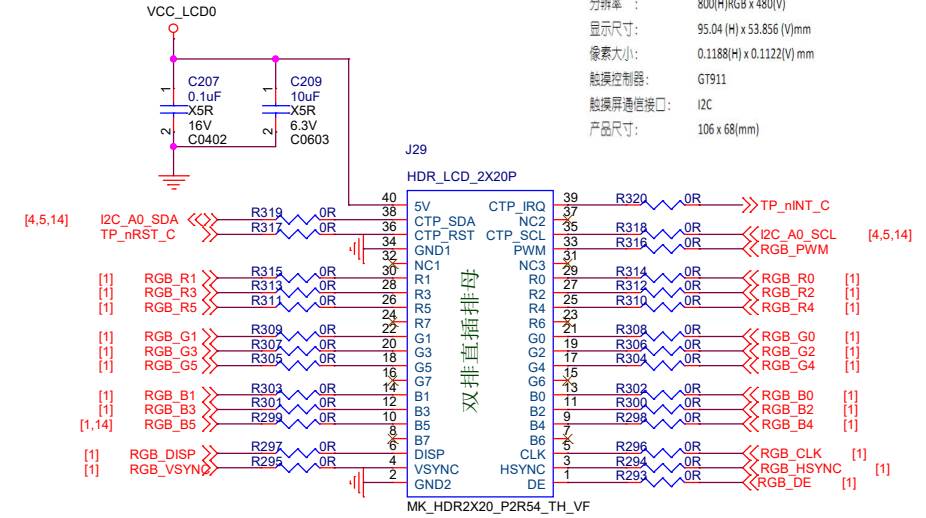


Touch Panel connector

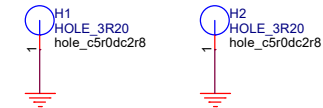


微电子
4.3寸电容触摸屏 IPS 液晶屏 800*480分辨率
24位RGB接口显示 可显示1678万种色彩 支持I2C控制接口 电容触摸 5点触控 LED背光

<https://www.waveshare.net/shop/4.3inch-Capacitive-Touch-LCD.htm>



[1] RGB_nRESET

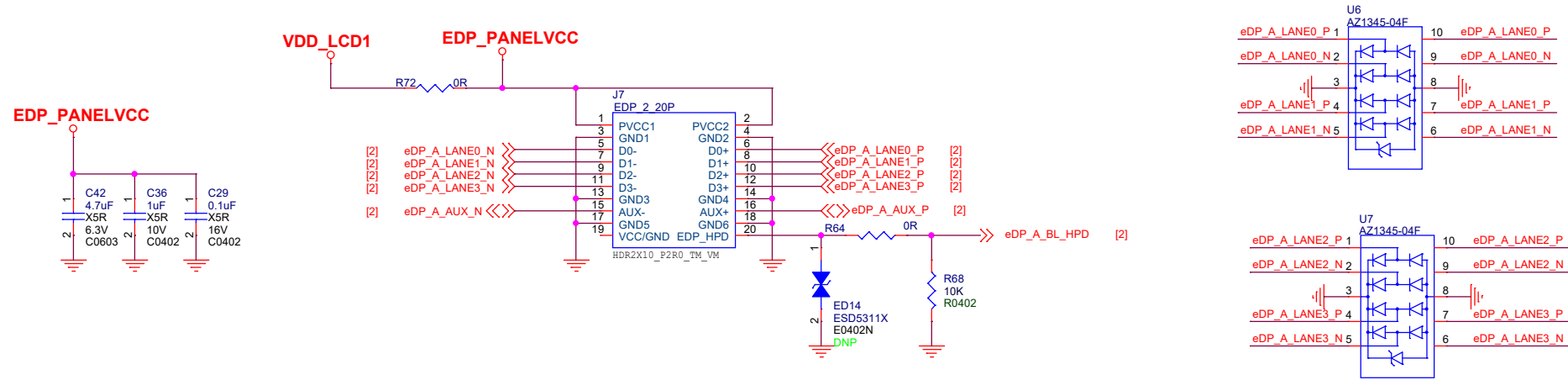


工作电压:	3.3V/5V
LCD 通信接口:	24 位并行 RGB
逻辑电平:	3.3V
屏幕类型:	TFT
显示颜色:	RGB,16.7M 彩色
分辨率 :	800(H)RGB x 480(V)
显示尺寸:	95.04 (H) x 53.856 (V)mm
像素大小:	0.1188(H) x 0.1122(V) mm
触摸控制器:	GT911
触摸屏通信接口:	I2C
产品尺寸:	106 x 68(mm)

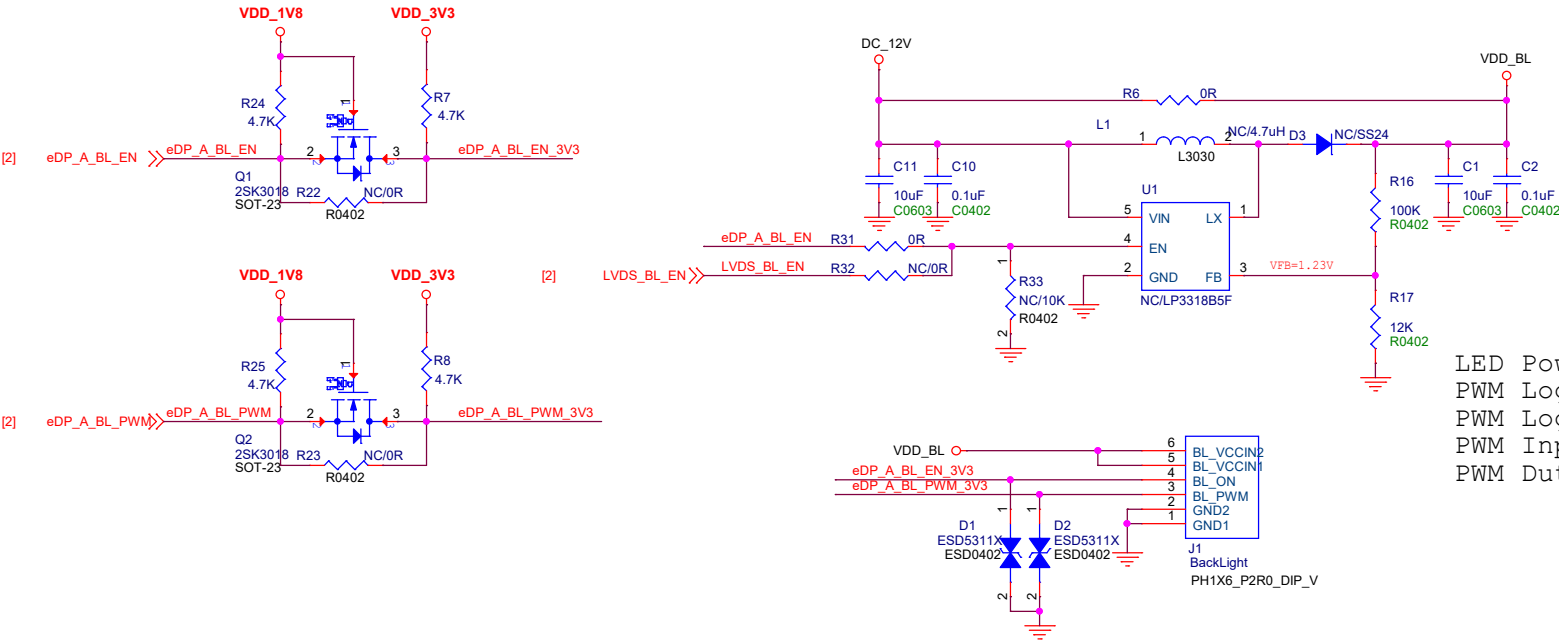
Geniatech

Project:	OSM_BB		
File:	P14 RGB LCD		
Date:	Wednesday, August 10, 2022	Rev:	V1.0
Designed by:	<designer>	Sheet:	14 of 25

eDP Panel



选用呆滞物料010415000901

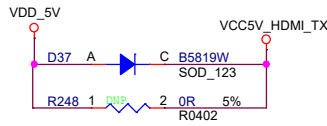
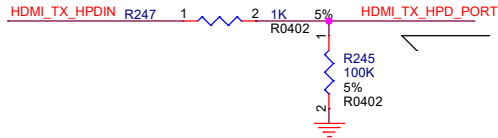


LED Power Supply:6.0~21V
PWM Logic Input High Level:2.5~5.5V
PWM Logic Input Low Level:0.0~0.5V
PWM Input Frequency:200~10KHz
PWM Duty Ratio:5~100%

Geniatech			
Project:	OSM_BB		
File:	P15 EDP LCD		
Date:	Wednesday, August 10, 2022	Rev:	V1.0
Designed by:	<designer>	Sheet:	15 of 25

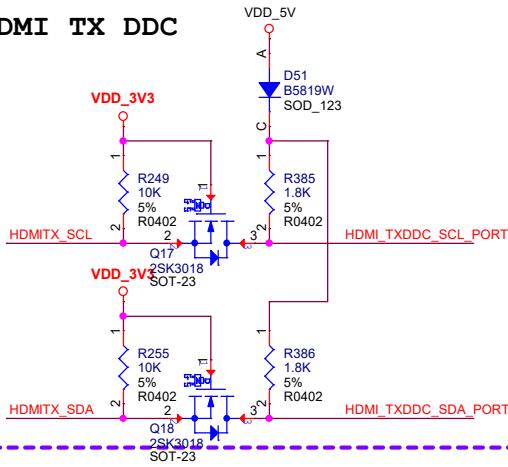
- >>HDMI_TX2P_PORT [2]
- >>HDMI_TX2N_PORT [2]
- >>HDMI_TX1P_PORT [2]
- >>HDMI_TX1N_PORT [2]
- >>HDMI_TX0P_PORT [2]
- >>HDMI_TX0N_PORT [2]
- >>HDMI_TXCLKP_PORT [2]
- >>HDMI_TXCLKN_PORT [2]
- <<HDMITX_SCL [2]
- <<HDMITX_SDA [2]
- <<HDMITX_CEC [2]
- <<HDMI_TX_HPDI [2]

HDMI TX HPD

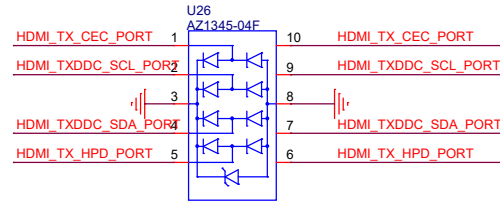
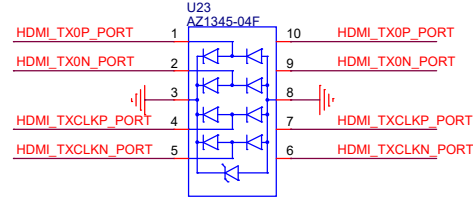
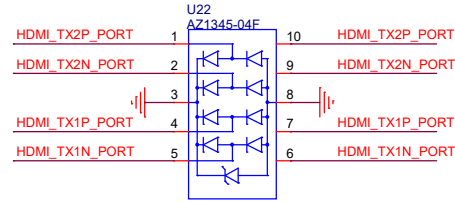
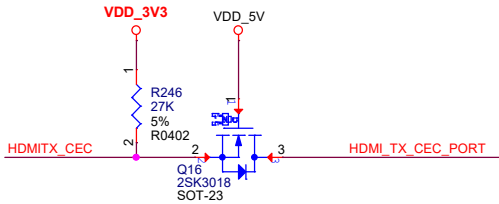


$$C_j \leq 0.4 \text{ pF}$$

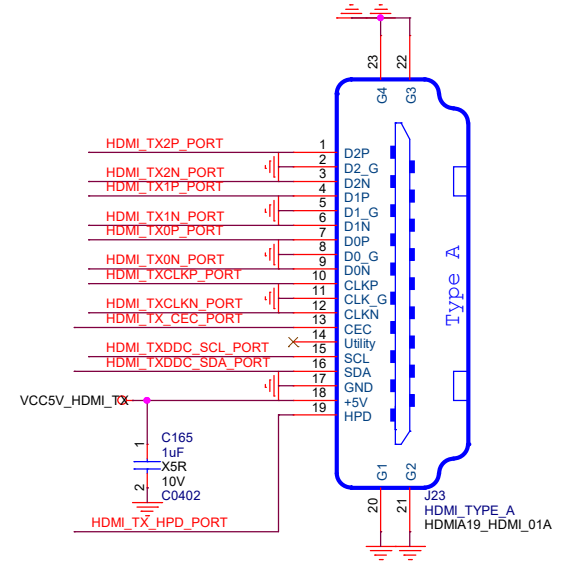
HDMI TX DDC



HDMI TX CEC

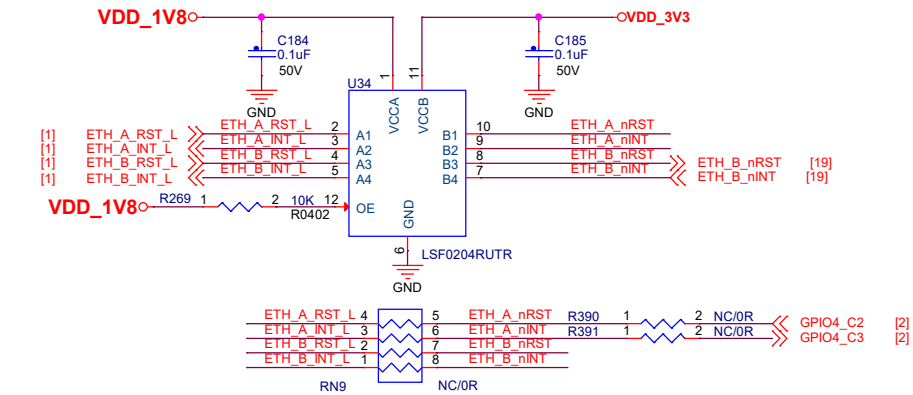
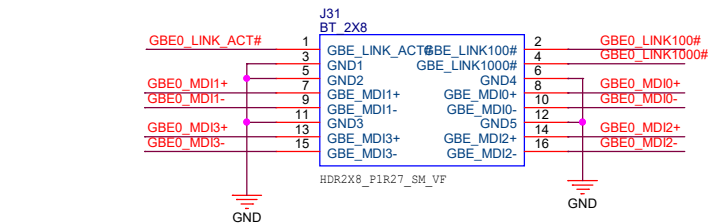
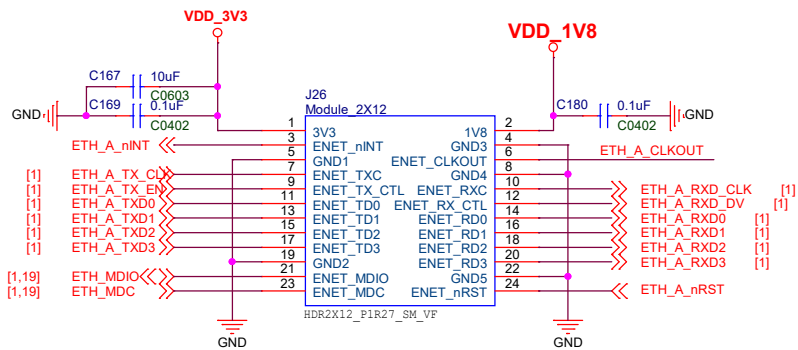


选用呆滯物料010415000901

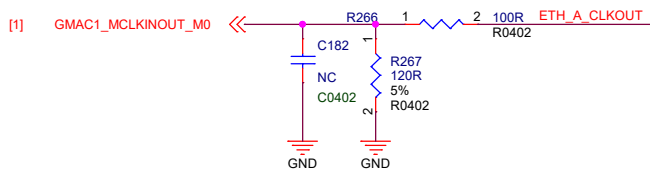


Geniatech

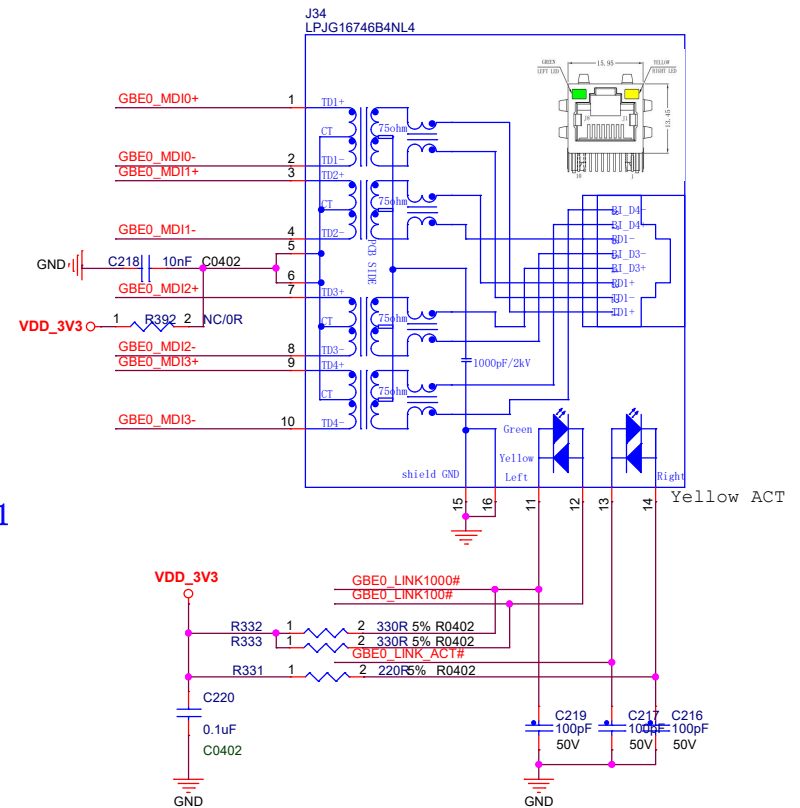
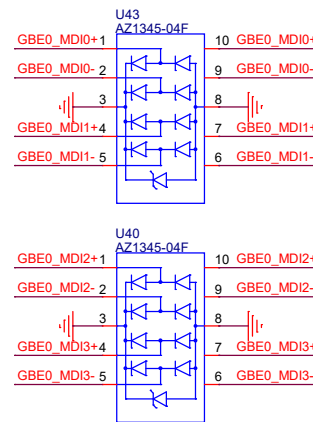
Project:	OSM_BB		
File:	P17 HDMI		
Date:	Tuesday, August 08, 2022	Rev:	V1.0
Designed by:	<designer>	Sheet:	17 of 25



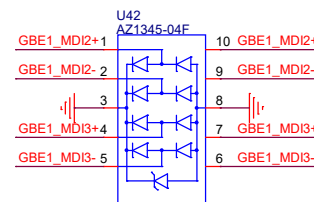
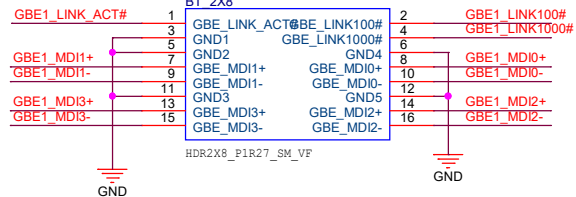
选用OSM_RS-G2L, 使用电阻



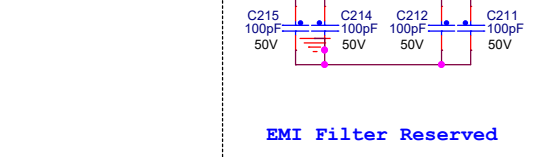
选用呆滞物料010415000901



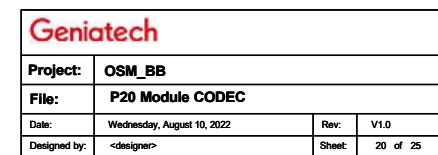
Geniatech			
Project:	OSM_BB		
File:	P18 Giga ENET0		
Date:	Thursday, August 11, 2022	Rev:	V1.0
Designed by:	<designer>	Sheet:	18 of 25

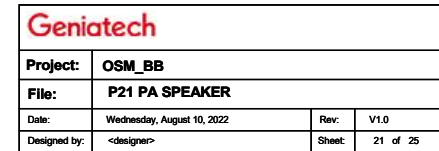


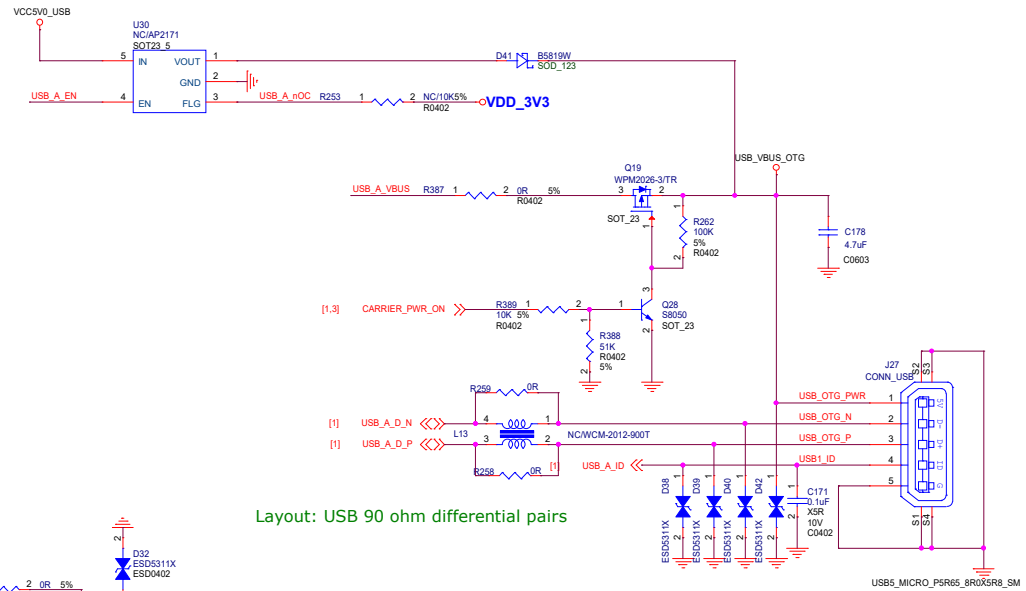
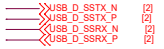
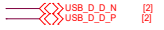
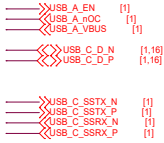
选用呆滯物料010415000901



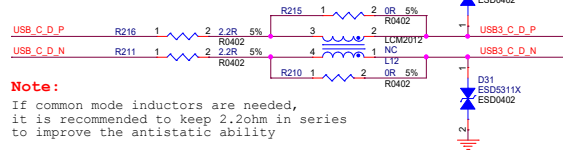
Date:	Wednesday, August 10, 2022	Rev:	V1.0
Designed by:	<designer>	Sheet:	19 of 25



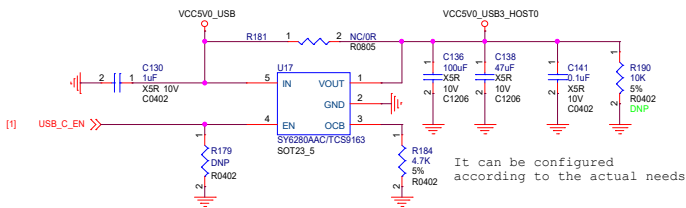




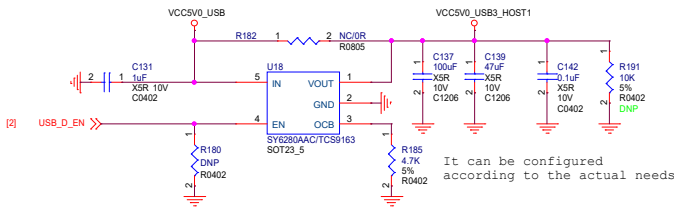
Layout: USB 90 ohm differential pairs



Note:
If common mode inductors are needed,
it is recommended to keep 2.2ohm in series
to improve the antistatic ability



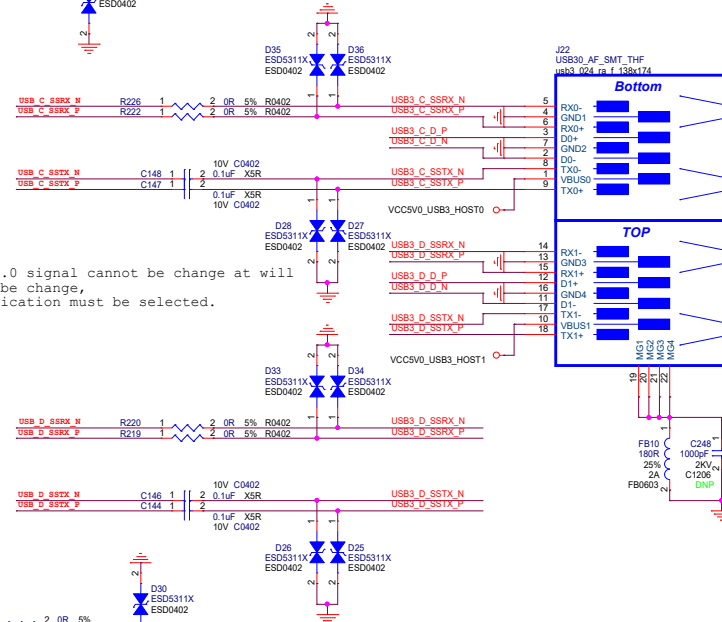
STI9712已经停产，还有库存



It can be configured
according to the actual needs

Note:
The ESD of USB3.0 signal cannot be change at will
If it needs to be change,
the same specification must be selected.

Cj<=0.4pF



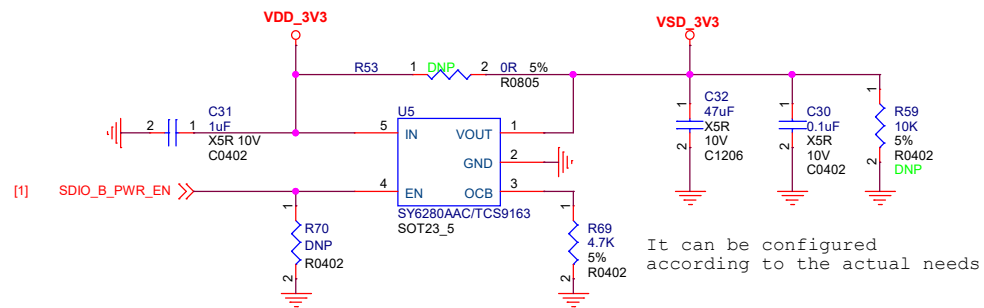
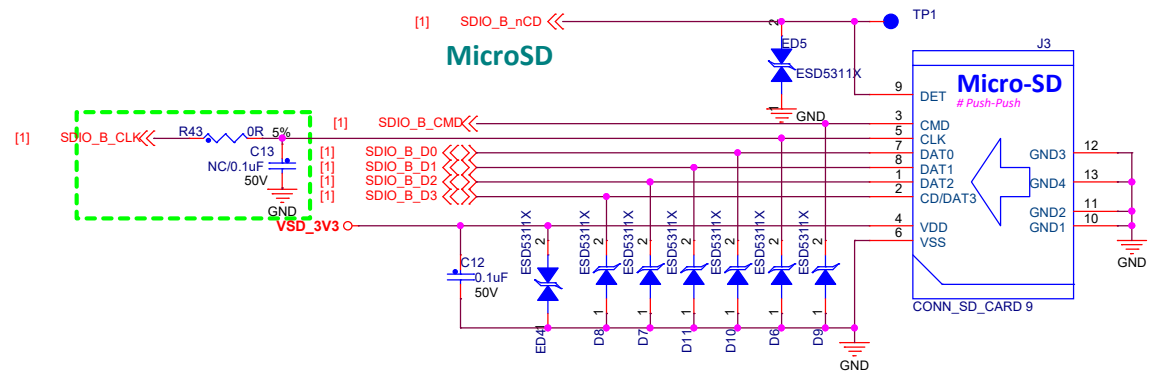
选用呆滞物料011504003801

011504003801 呆滞物料，测试板使用，无规格书

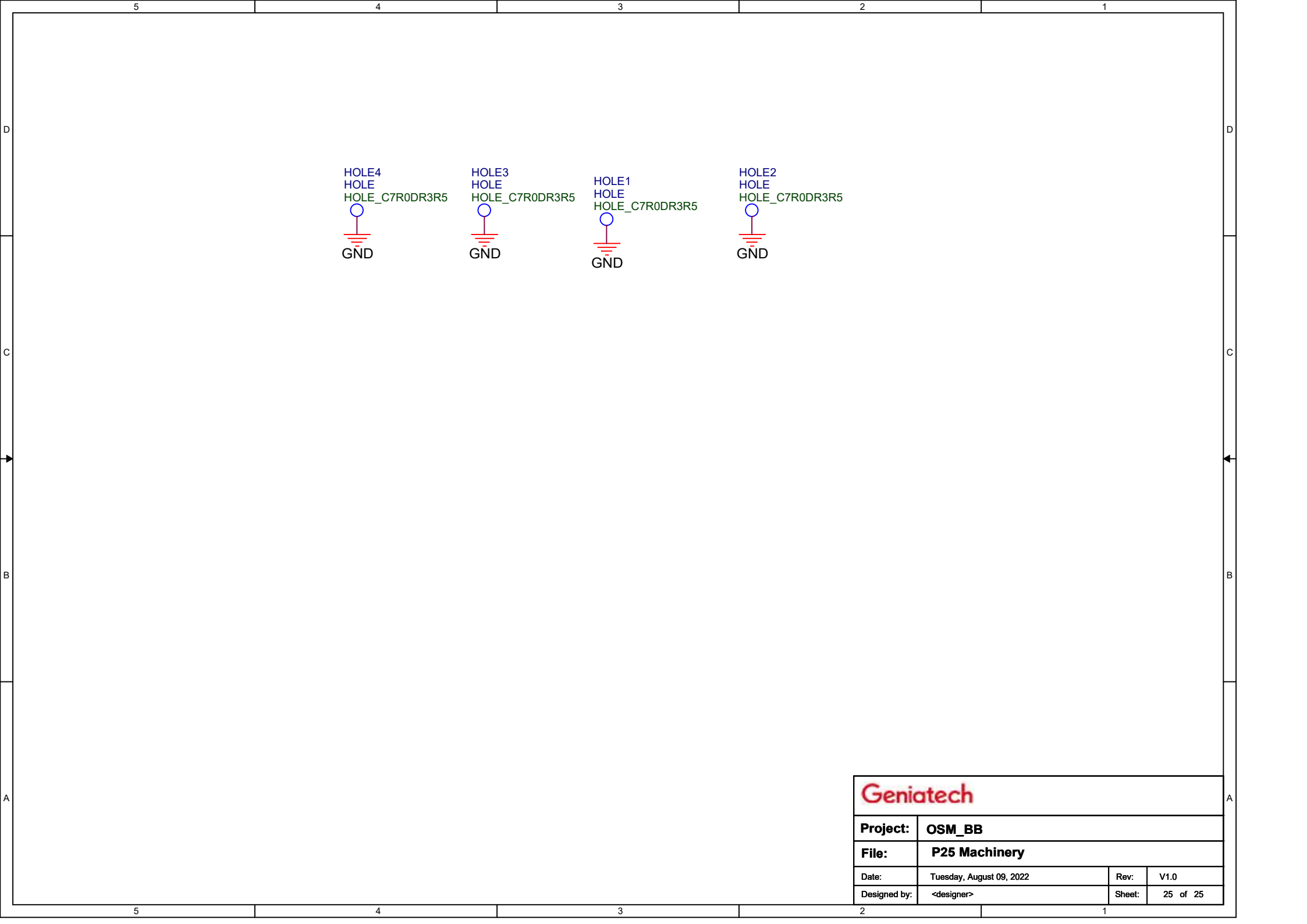
Default
USB3.0 HOST

Default
USB3.0 HOST1

Geniatech			
Project:	OSM_BB		
File:	P22 USB20,USB30		
Date:	Wednesday, August 10, 2022	Rev:	V1.0
Designed by:	<designer>	Sheet:	22 of 25



Geniatech			
Project:	OSM_BB		
File:	P23 MicroSD		
Date:	Wednesday, August 10, 2022	Rev:	V1.0
Designed by:	<designer>	Sheet:	23 of 25



Geniatech			
Project:	OSM_BB		
File:	P25 Machinery		
Date:	Tuesday, August 09, 2022	Rev:	V1.0
Designed by:	<designer>	Sheet:	25 of 25