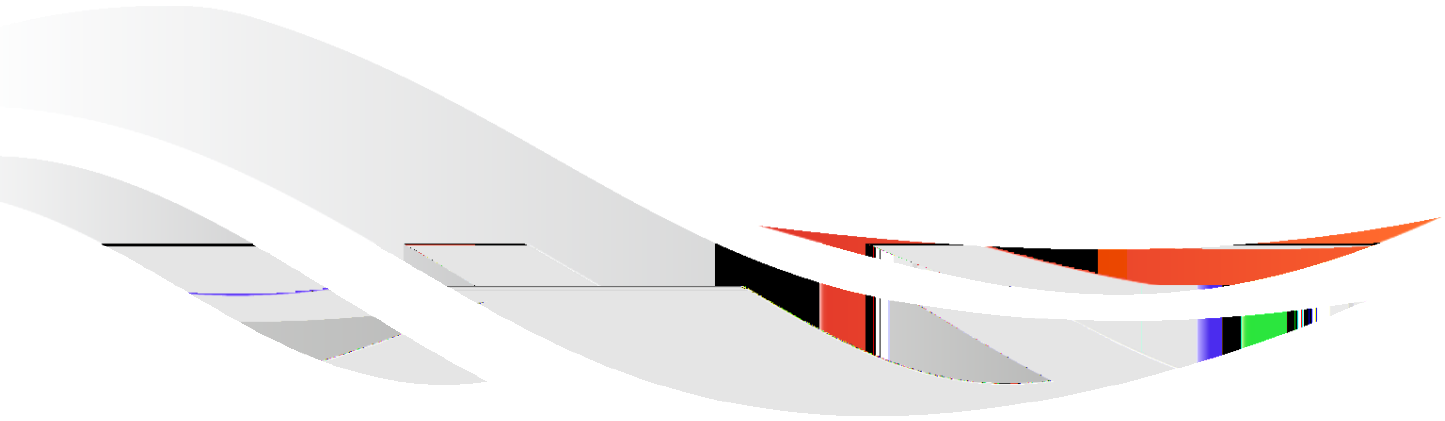
EVB_EC600X、EC800X

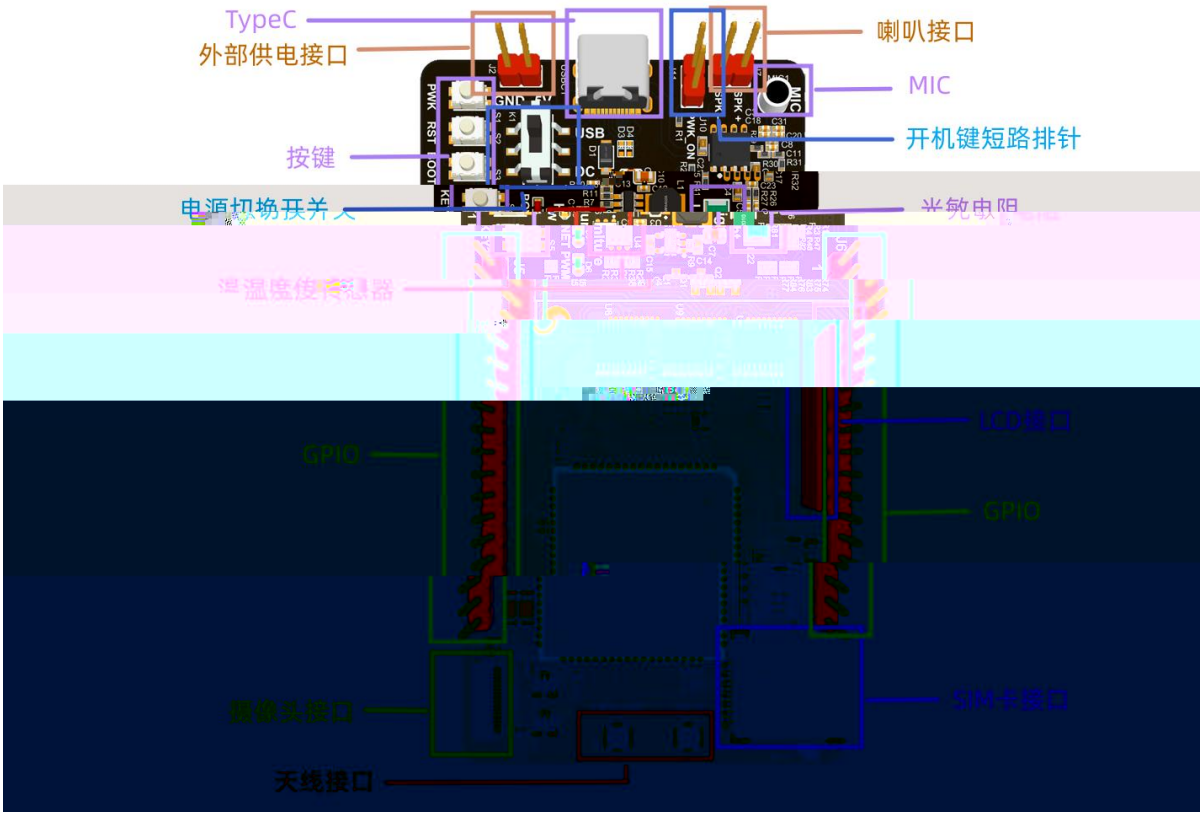
使用说明

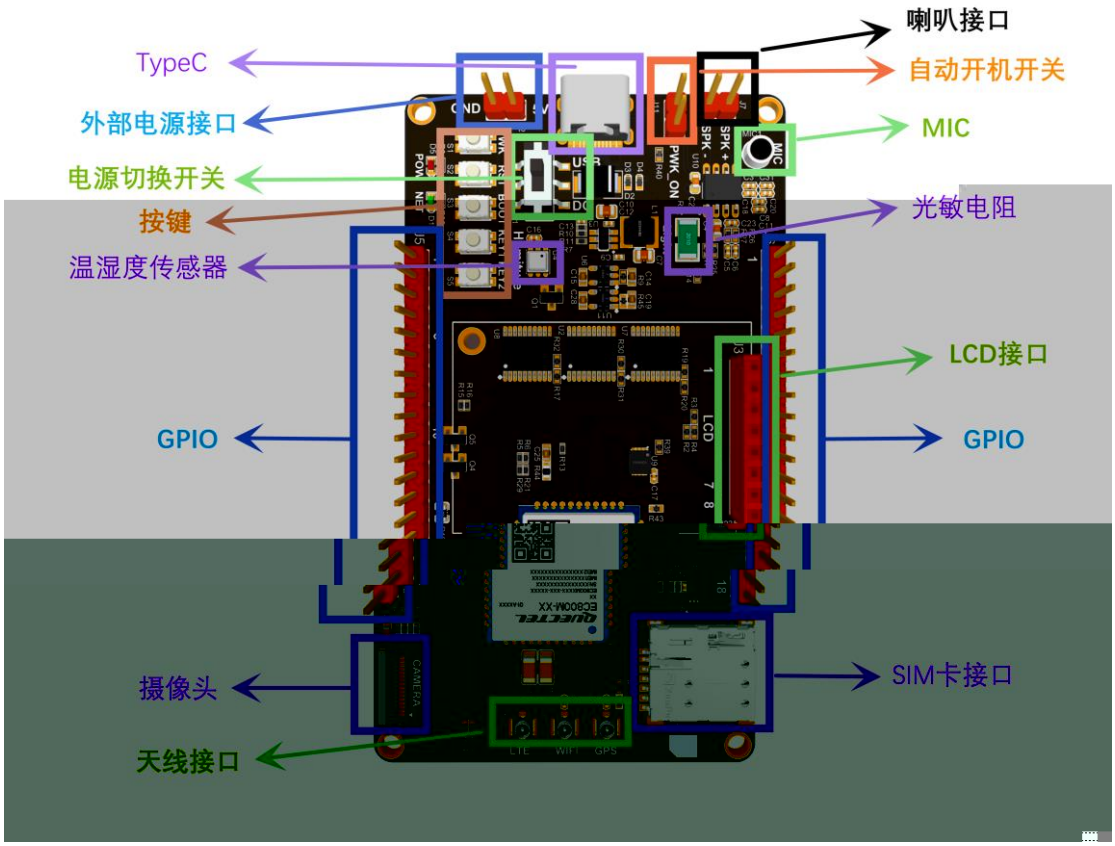
Quectel_EVB_EC600X、E800X _V3.2

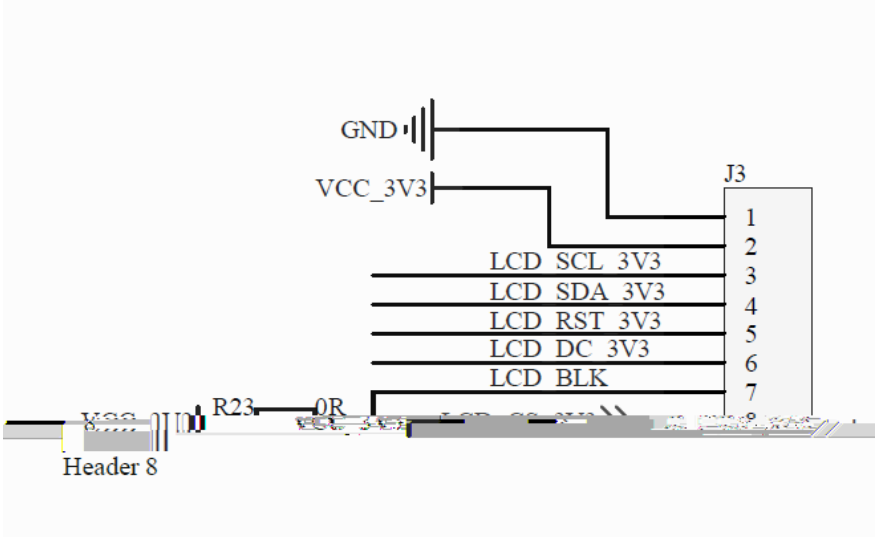
2021-11-07

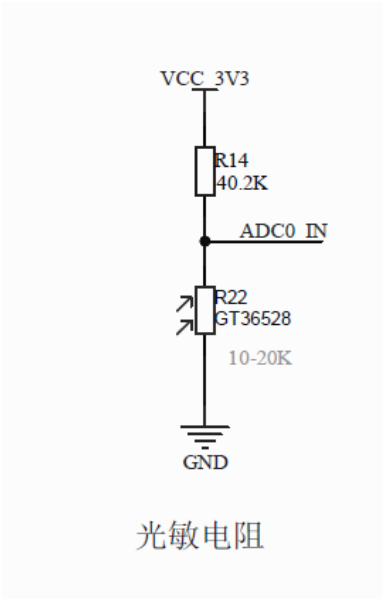


EC600X— EC600 EC600N EC600U EC600M
EC800X— EC800 EC800M EC800E
EVB—
V3.X--

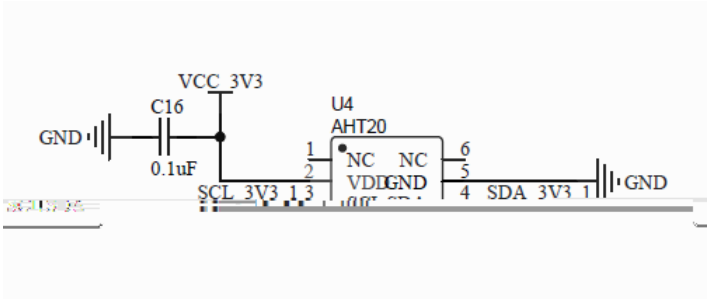

TypeC
外部供电接口
喇叭接口
MIC
开机键短路排针
按键
电源切换开关
GPIO
LCD接口
GPIO
摄像头接口
SIM卡接口
天线接口

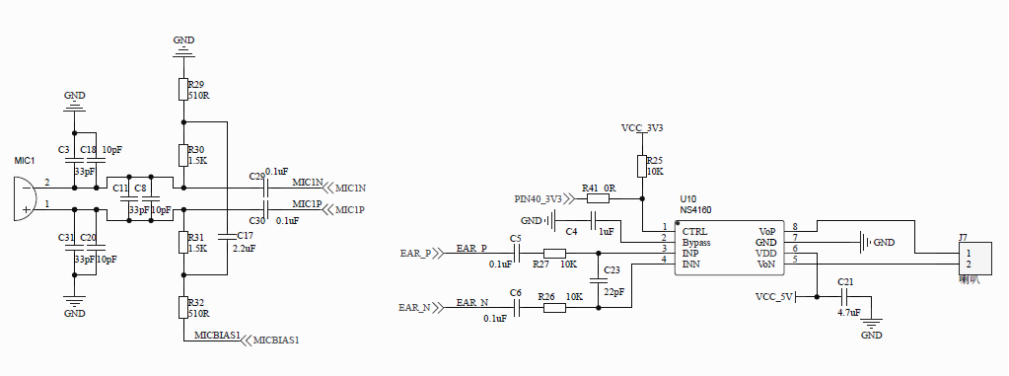

喇叭接口
TypeC
自动开机开关
外部电源接口
MIC
电源切换开关
光敏电阻
按键
温湿度传感器
LCD接口
GPIO
GPIO
SIM卡接口
摄像头
天线接口

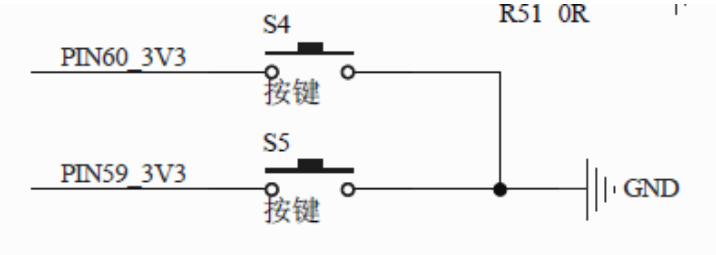

GND
VCC_3V3
J3
1
2
3
4
5
6
7
LCD_SCL_3V3
LCD_SDA_3V3
LCD_RST_3V3
LCD_DC_3V3
LCD_BLK
R23
0R
Header 8


VCC_3V3
R14
40.2K
ADC0_IN
R22
GT36528
10-20K
GND

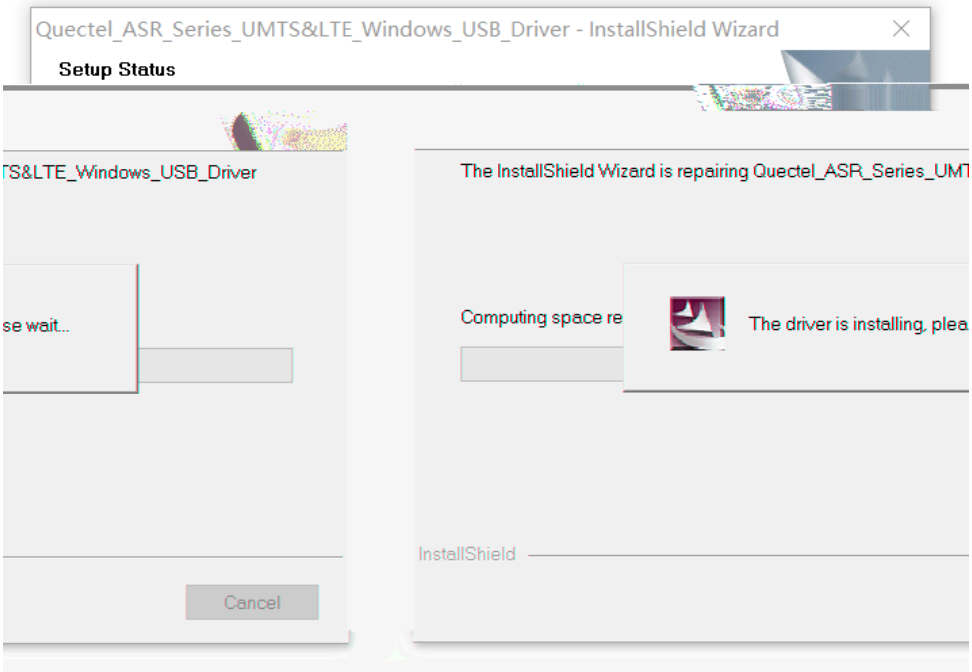
光敏电阻


VCC_3V3
C16
GND
0.1uF
U4
AHT20
NC
NC
GND
SDA_3V3_1
GND

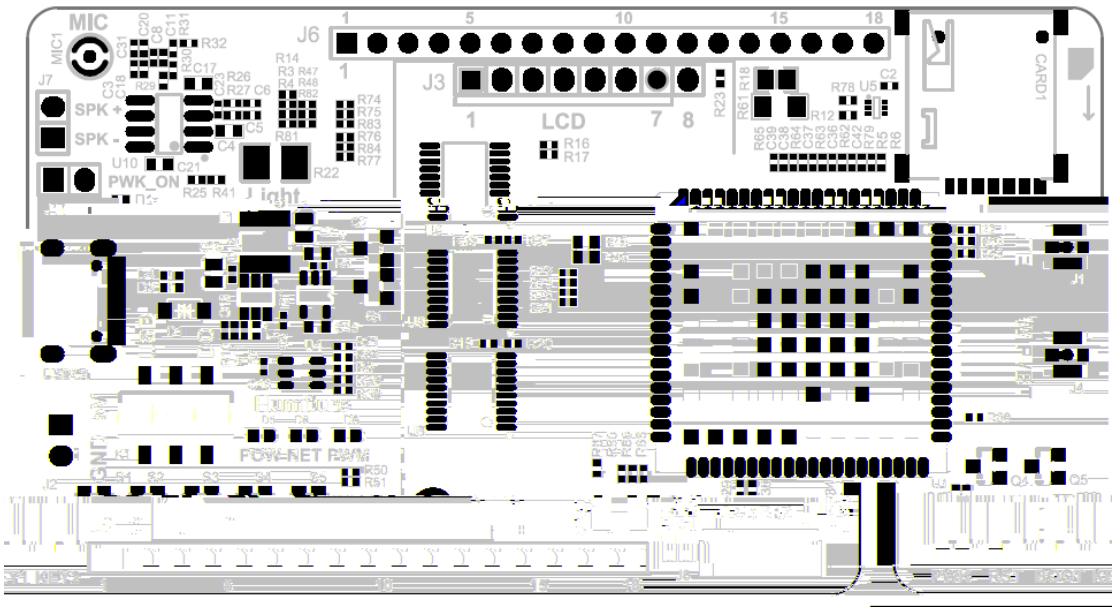

GND
R29
510R
MIC1
C3
C18
10pF
33pF
R30
1.5K
C11
C8
33pF
10pF
C29
0.1uF
MIC1N
MIC1P
C30
0.1uF
C31
C20
33pF
10pF
R31
1.5K
C17
2.2nF
R32
510R
MICBIAS1
VCC_3V3
R25
10K
R41 0R
PIN40_3V3
GND
C4
1uF
U10
NS4160
CTRL
Bypass
INP
INN
VoP
GND
VDD
VoN
EAR_P
C5
0.1uF
R27
10K
C23
22pF
EAR_N
C6
0.1uF
R26
10K
VCC_5V
C21
4.7uF
J7

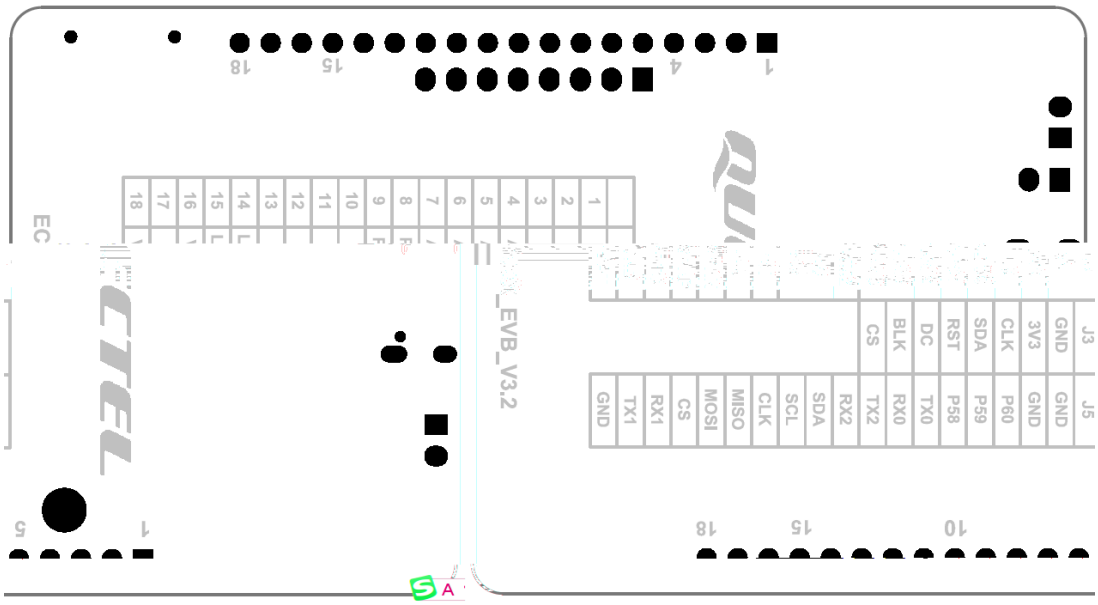

R51 0R
S4
PIN60_3V3
按键
S5
PIN59_3V3
按键
GND

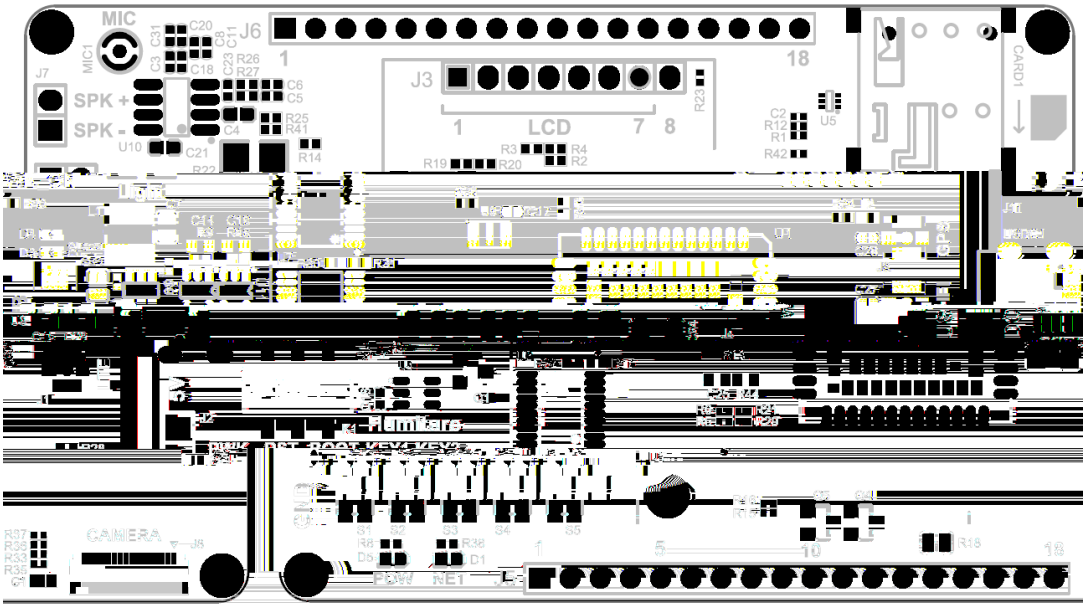
setup.exe

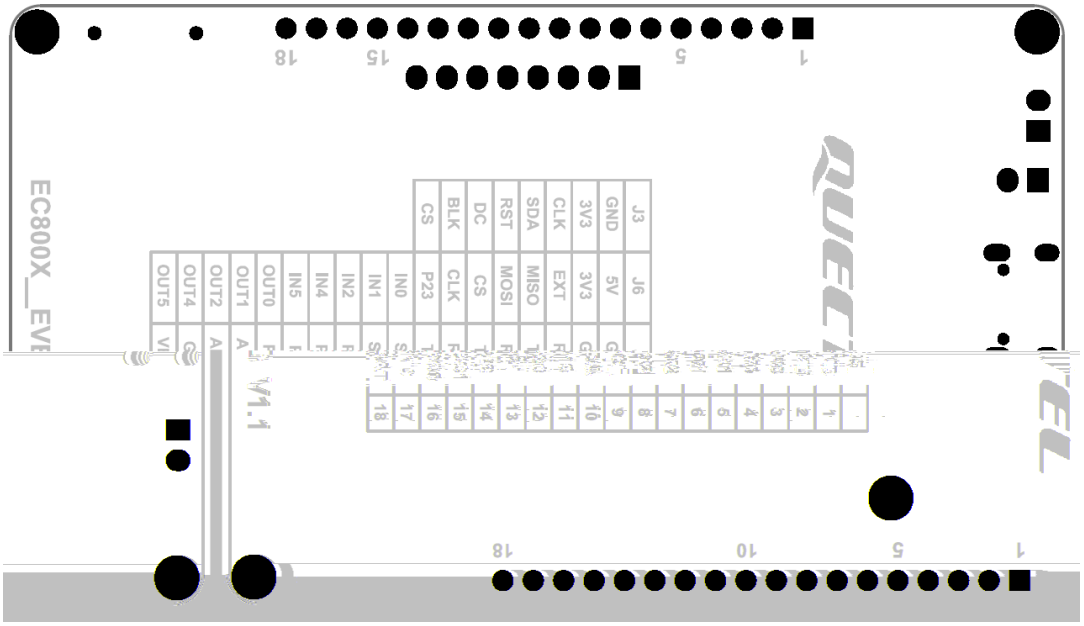

Quectel_ASR_Series_UMTS&LTE_Windows_USB_Driver - InstallShield Wizard
Setup Status
TS&LTE_Windows_USB_Driver
se wait...
Cancel
The InstallShield Wizard is repairing Quectel_ASR_Series_UMT
Computing space re
The driver is installing, plea
InstallShield

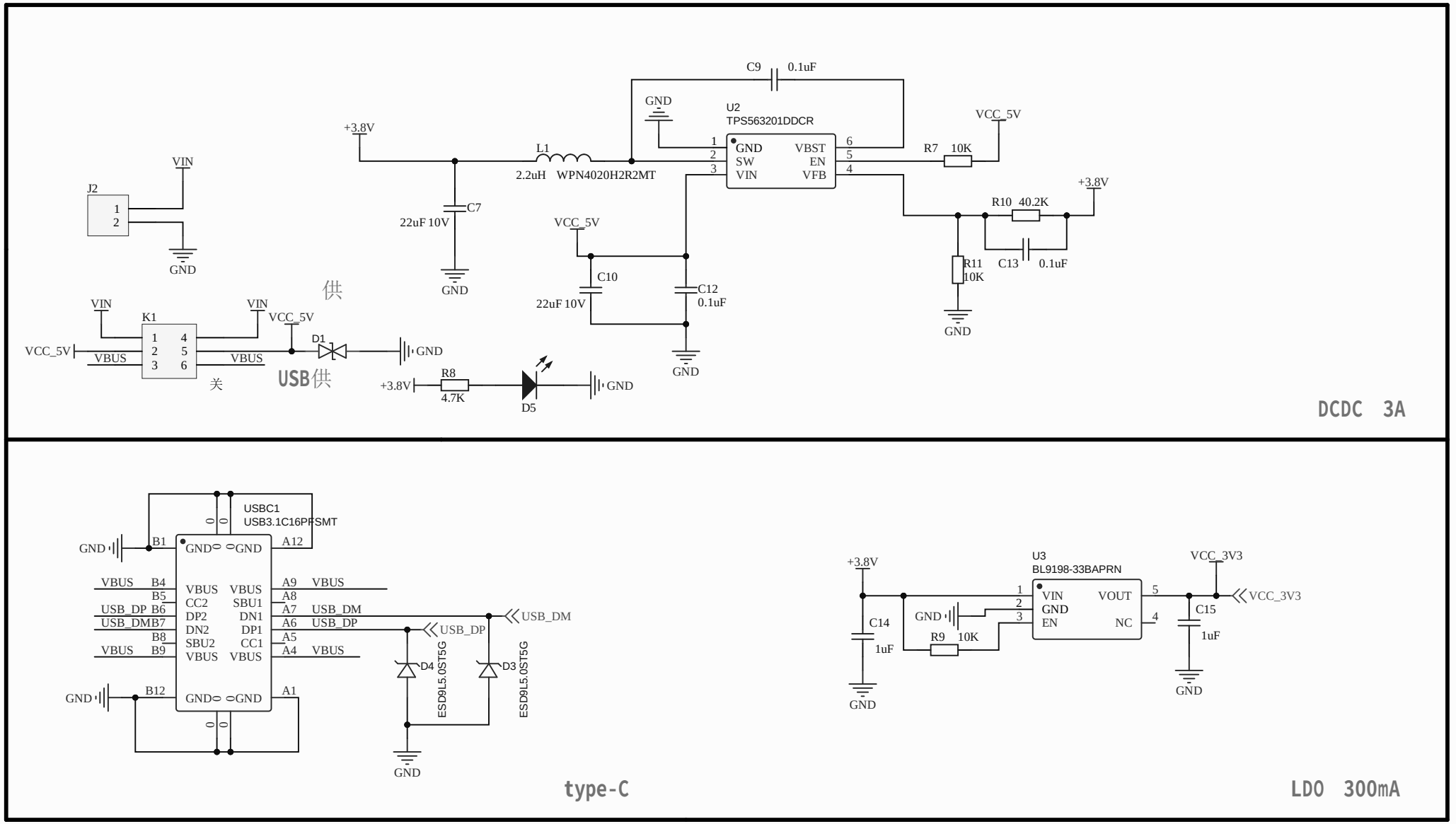
Quectel USB AT Port (COMx)
Quectel USB AP Log Port (COMx)
Quectel USB CP Log Port (COMx)
Quectel USB Diag Port (COMx)
Quectel USB MOS Port (COMx)
Quectel Modem (COMx)
Quectel USB Serial-1 Port (COMx)
Quectel USB Serial-2 Port (COMx)


MIC
J6
J3
LCD
SPK
SPK
PWK_ON
CARD1

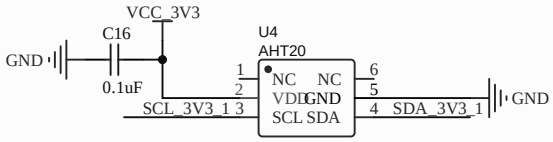

EVB_V3.2
CS
BLK
DC
RST
SDA
CLK
3V3
GND
J3
GND
TX1
RX1
CS
MOSI
MISO
CLK
SCL
SDA
RX2
TX2
RX0
TX0
P58
P59
P60
GND
GND
J5


MIC
SPK +
SPK -
J6
J3
LCD
CAMERA
CARD1


EC800X_EVB
V1.1
J3
GND
3V3
CLK
SDA
RST
DC
BLK
CS
J6
5V
3V3
EXT
MISO
MOSI
CS
CLK
P23
IN0
IN1
IN2
IN4
IN5
OUT0
OUT1
OUT2
OUT4
OUT5



Title		
Size A4	Number	Revision
Date: 3-31-2023		Sheet of
File: G:\ \..\2.POWER.SchDoc		Drawn By:



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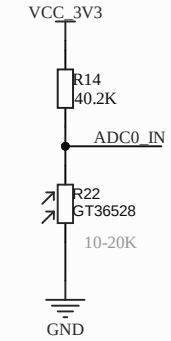

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SENSOR

Title		
Size A4	Number	Revision
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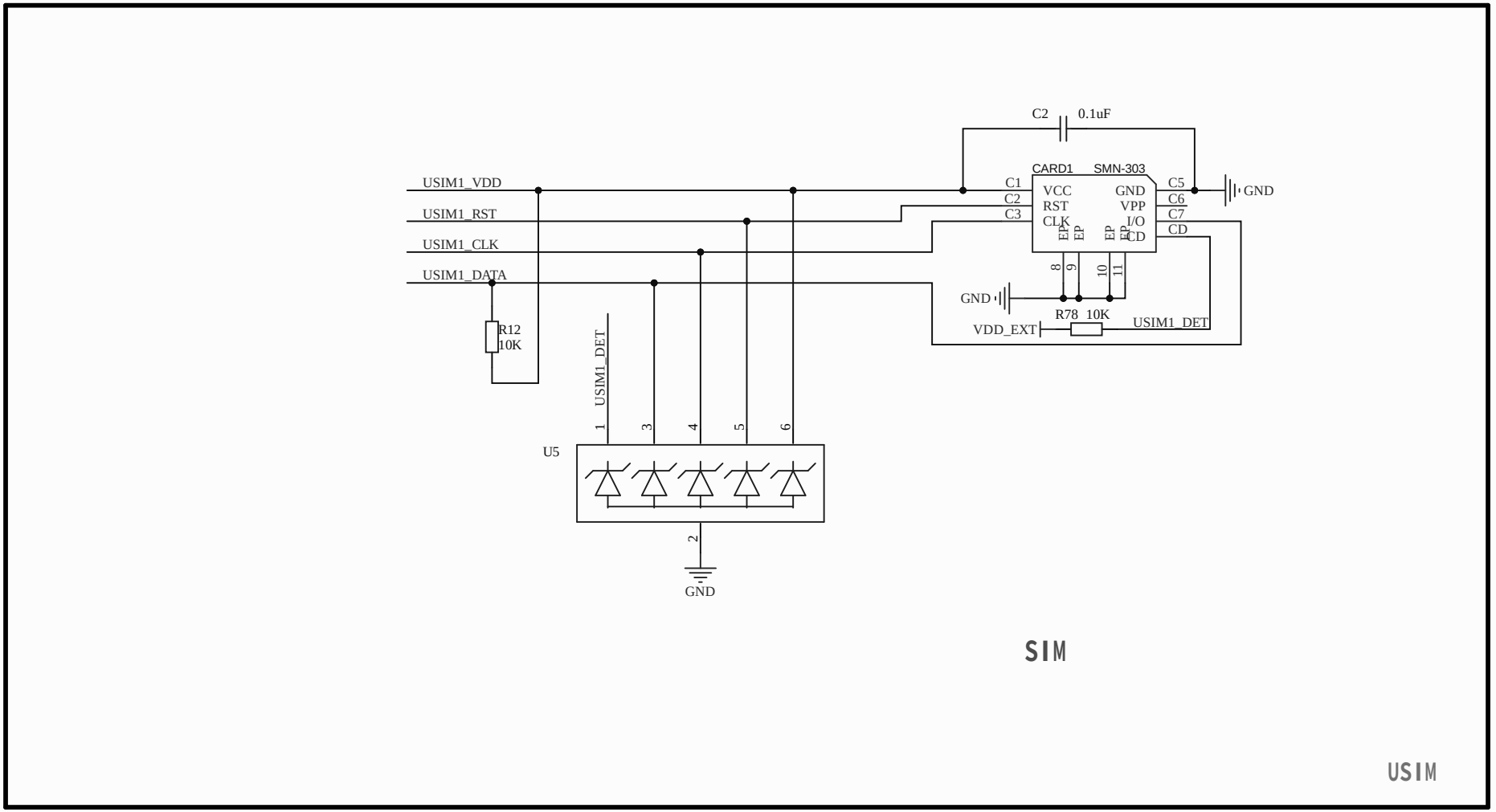

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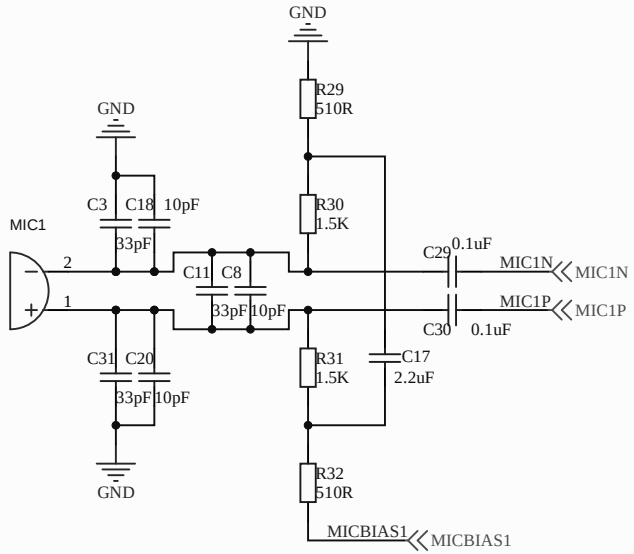

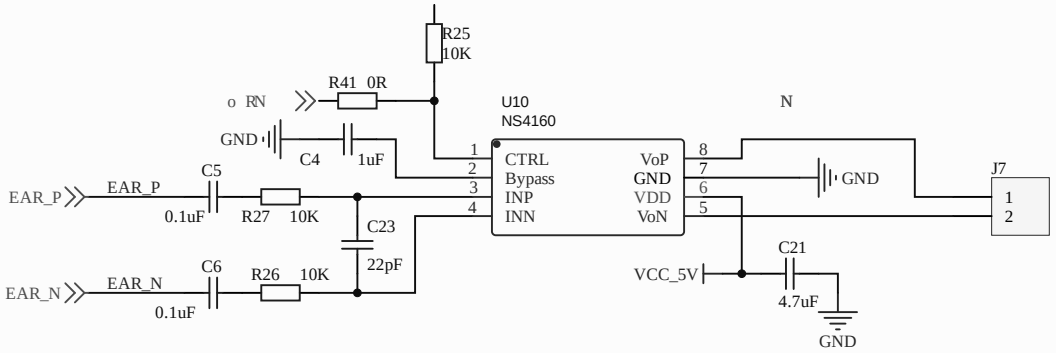

AUDIO

Title		
Size A4	Number	Revision
Date: 3-31-2023		Sheet of
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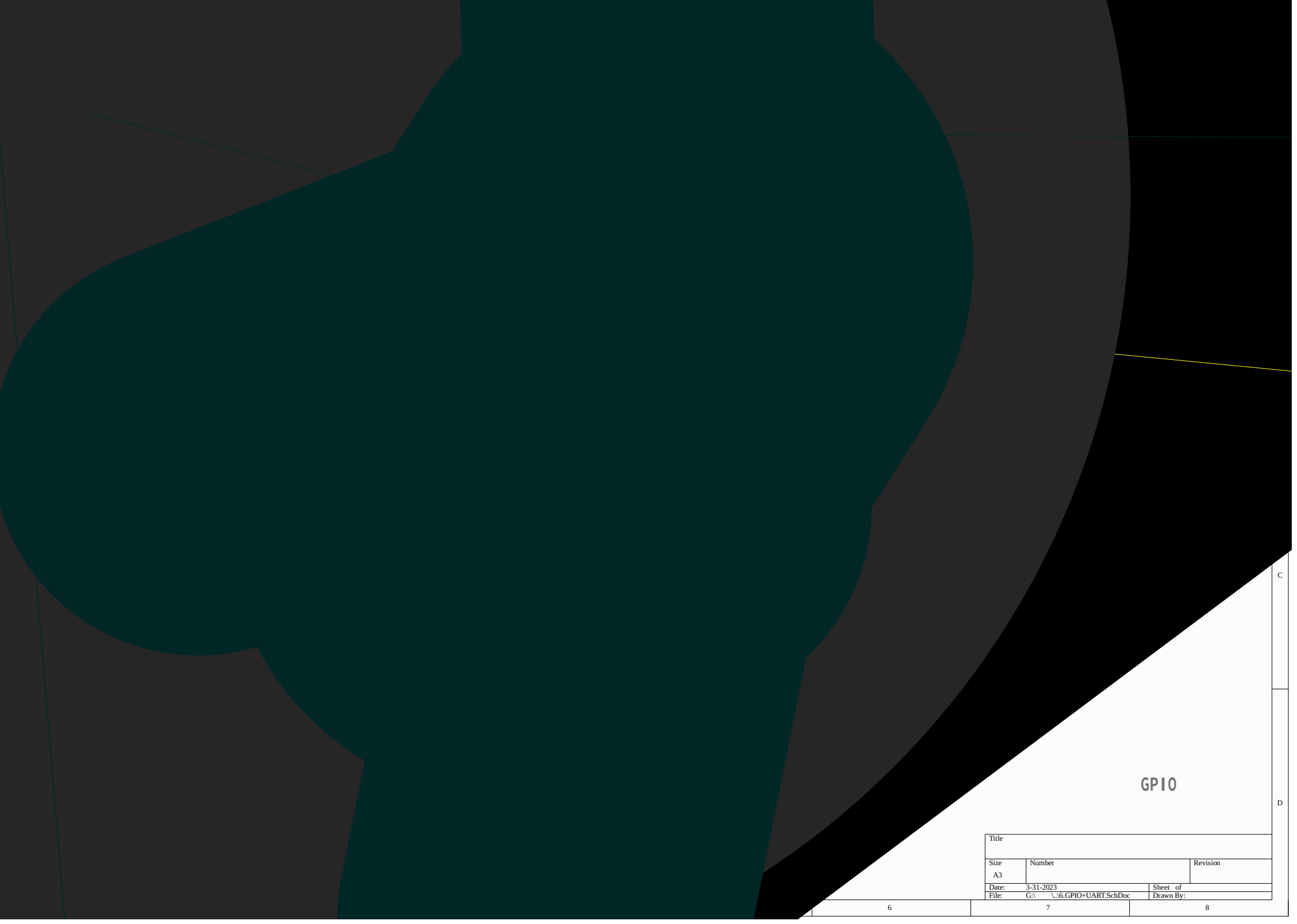
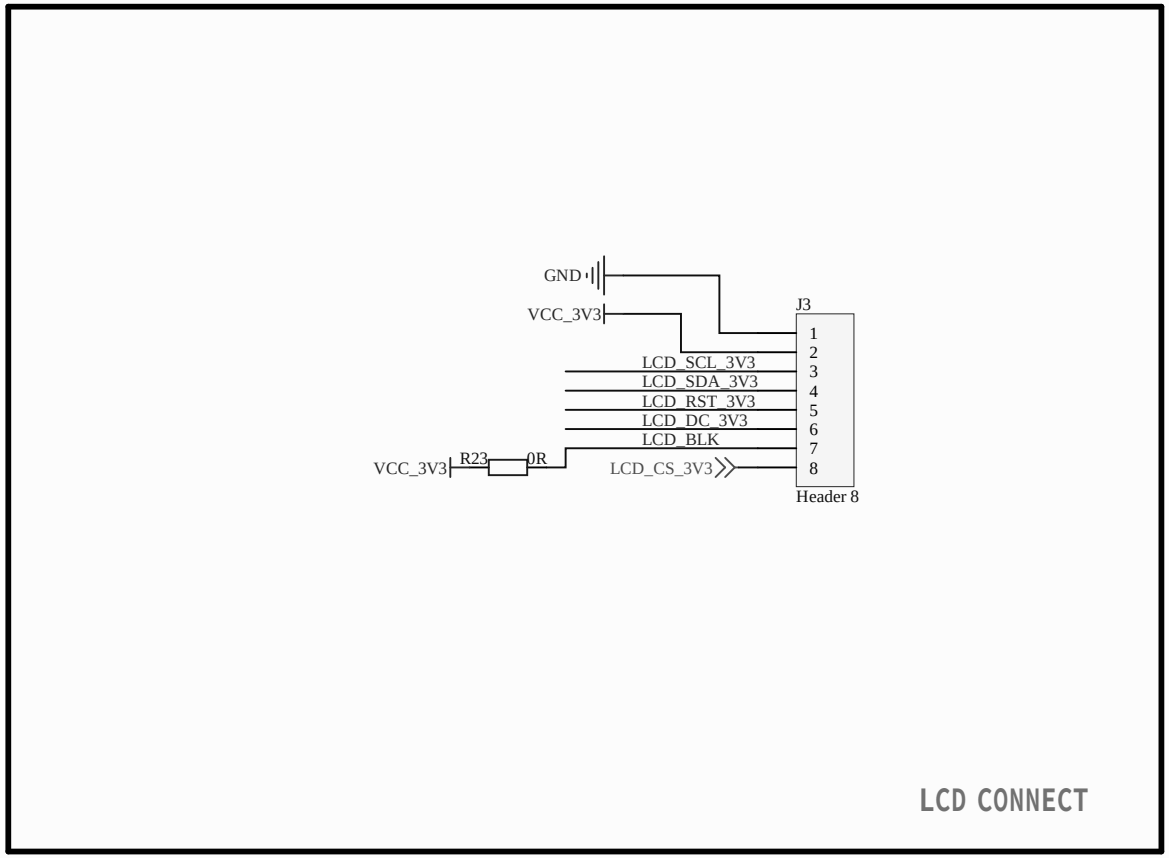

C
D
GPIO
Title
Size
A3
Number
Revision
Date:
3-31-2023
Sheet of
File:
G:\ \..\6.GPIO+UART.SchDoc
Drawn By:
6
7
8



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Date: 3-31-2023		Sheet of
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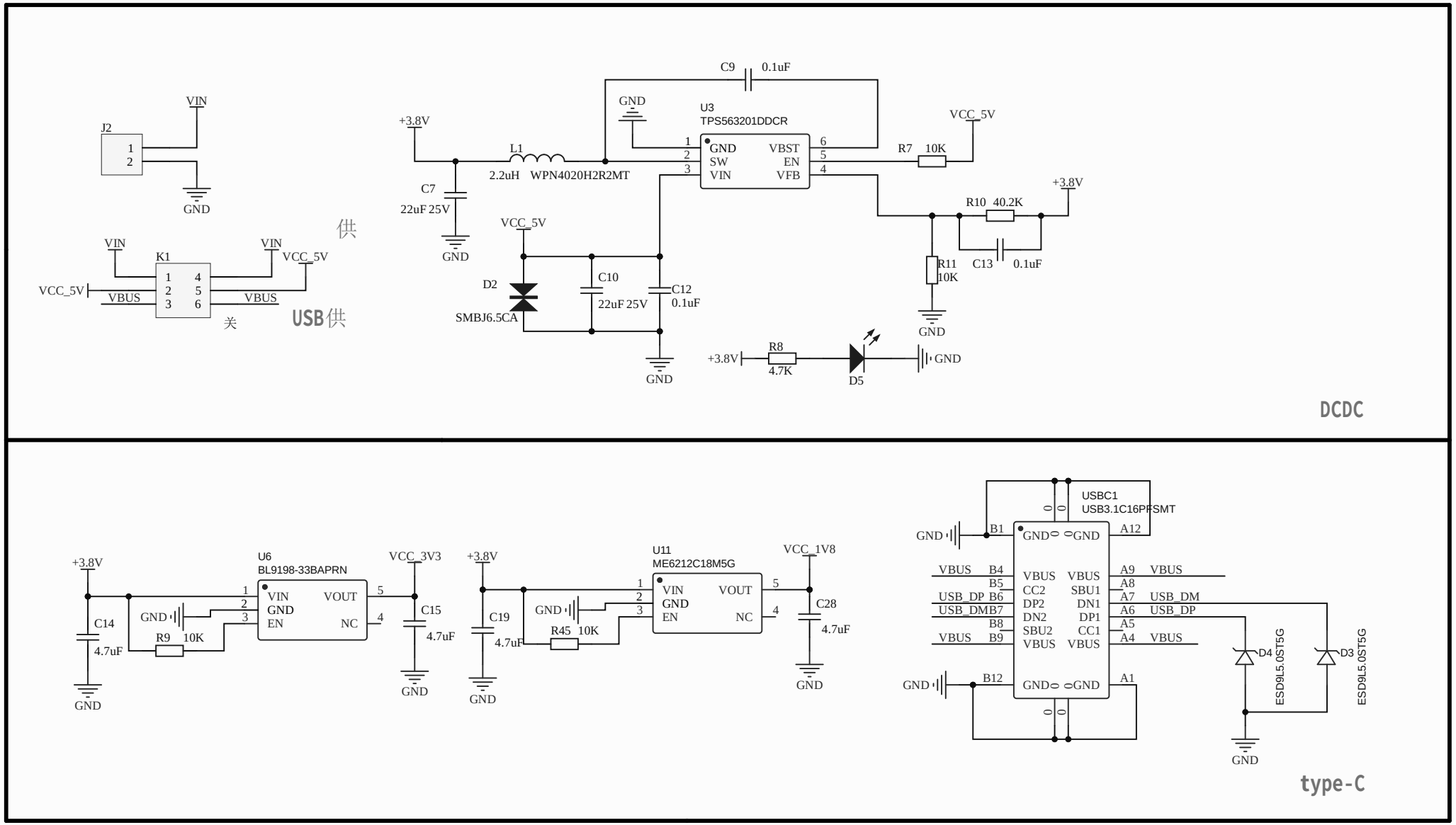
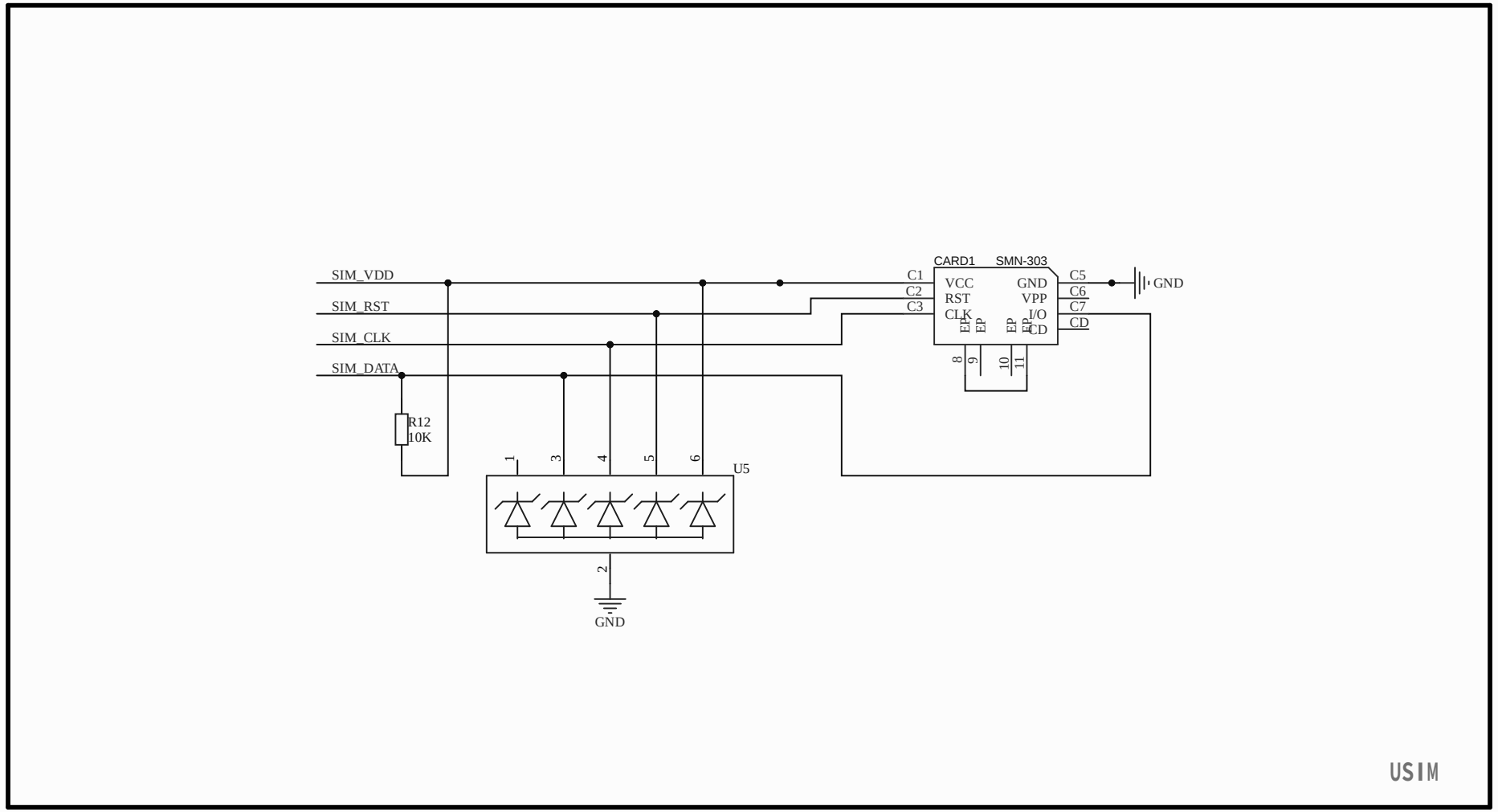
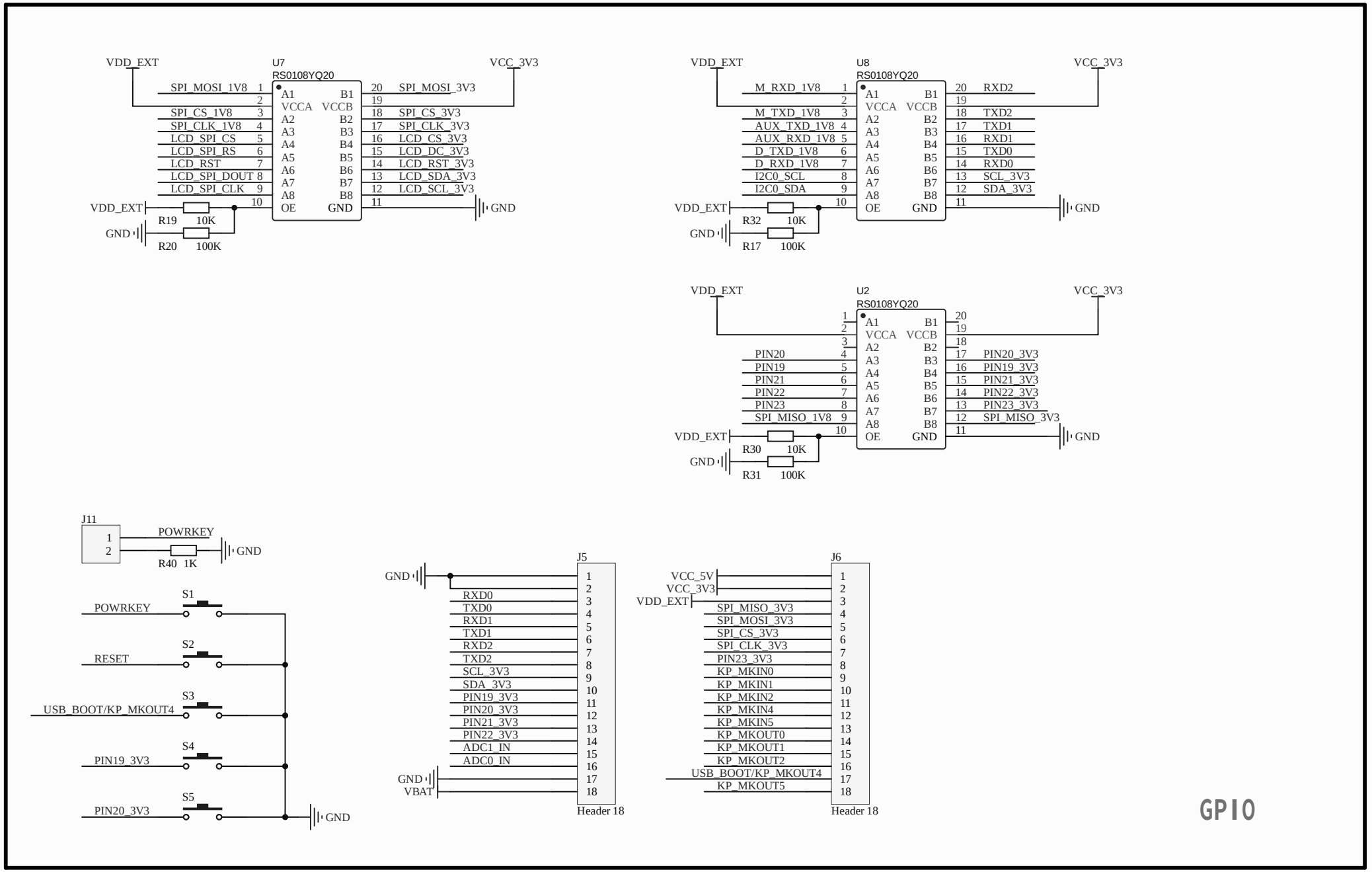
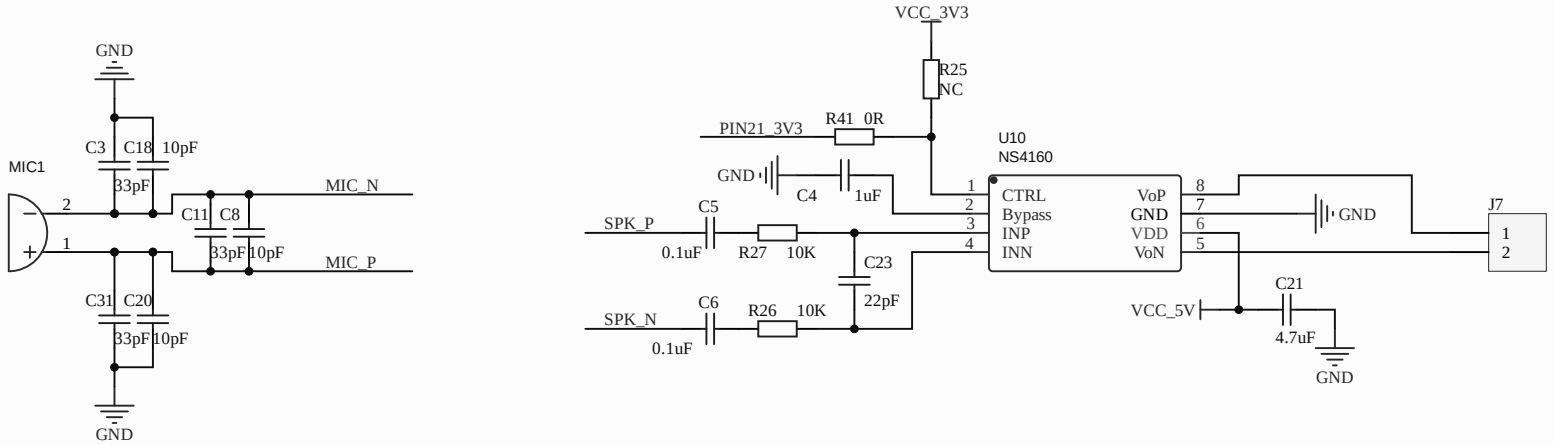

J2
VIN
GND
K1
VIN
VCC_5V
VBUS
供
关
USB供
C9
0.1uF
U3
TPS563201DDCR
+3.8V
L1
2.2uH
WPN4020H2R2MT
C7
22uF 25V
R7
10K
R10
40.2K
R11
10K
C13
0.1uF
D2
SMBJ6.5CA
C10
22uF 25V
C12
0.1uF
R8
4.7K
D5
DCDC
U6
BL9198-33BAPRN
VCC_3V3
C14
4.7uF
R9
10K
C15
4.7uF
U11
ME6212C18M5G
VCC_1V8
C19
4.7uF
R45
10K
C28
4.7uF
USBC1
USB3.1C16PFSMT
VBUS
USB_DP
USB_DM
D4
D3
ESD9L5.0ST5G
type-C

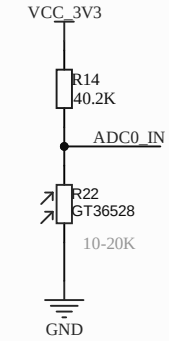

SIM_VDD
SIM_RST
SIM_CLK
SIM_DATA
R12
10K
U5
CARD1
SMN-303
VCC
RST
CLK
GND
VPP
I/O
CD
C1
C2
C3
C5
C6
C7
EP
GND
USIM


VDD_EXT
U7
RS0108YQ20
VCC_3V3
SPI_MOSI_1V8
SPI_CS_1V8
SPI_CLK_1V8
LCD_SPI_CS
LCD_SPI_RS
LCD_RST
LCD_SPI_DOUT
LCD_SPI_CLK
A1
VCCA
A2
A3
A4
A5
A6
A7
A8
OE
B1
VCCB
B2
B3
B4
B5
B6
B7
B8
GND
SPI_MOSI_3V3
SPI_CS_3V3
SPI_CLK_3V3
LCD_CS_3V3
LCD_DC_3V3
LCD_RST_3V3
LCD_SDA_3V3
LCD_SCL_3V3
R19 10K
R20 100K
U8
M_RXD_1V8
M_TXD_1V8
AUX_TXD_1V8
AUX_RXD_1V8
D_TXD_1V8
D_RXD_1V8
I2C0_SCL
I2C0_SDA
RXD2
TXD2
TXD1
RXD1
TXD0
RXD0
SCL_3V3
SDA_3V3
R32 10K
R17 100K
U2
PIN20
PIN19
PIN21
PIN22
PIN23
SPI_MISO_1V8
PIN20_3V3
PIN19_3V3
PIN21_3V3
PIN22_3V3
PIN23_3V3
SPI_MISO_3V3
R30 10K
R31 100K
J11
POWRKEY
R40 1K
S1
S2
RESET
S3
USB_BOOT/KP_MKOUT4
S4
PIN19_3V3
S5
PIN20_3V3
J5
VBAT
ADC1_IN
ADC0_IN
Header 18
J6
VCC_5V
KP_MKIN0
KP_MKIN1
KP_MKIN2
KP_MKIN4
KP_MKIN5
KP_MKOUT0
KP_MKOUT1
KP_MKOUT2
KP_MKOUT5
GPIO

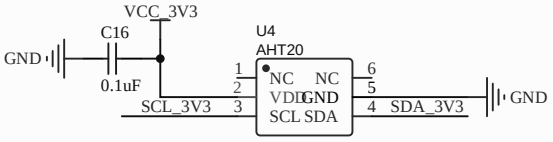

GND
C3
C18
10pF
33pF
MIC1
2
1
C11
C8
33pF
10pF
MIC_N
MIC_P
C31
C20
33pF
10pF
GND
VCC_3V3
R25
NC
PIN21_3V3
R41
0R
U10
NS4160
GND
C4
1uF
SPK_P
C5
0.1uF
R27
10K
C23
22pF
SPK_N
C6
0.1uF
R26
10K
CTRL
Bypass
INP
INN
VoP
GND
VDD
VoN
GND
J7
1
2
VCC_5V
C21
4.7uF
GND

AUDIO

AUDIO

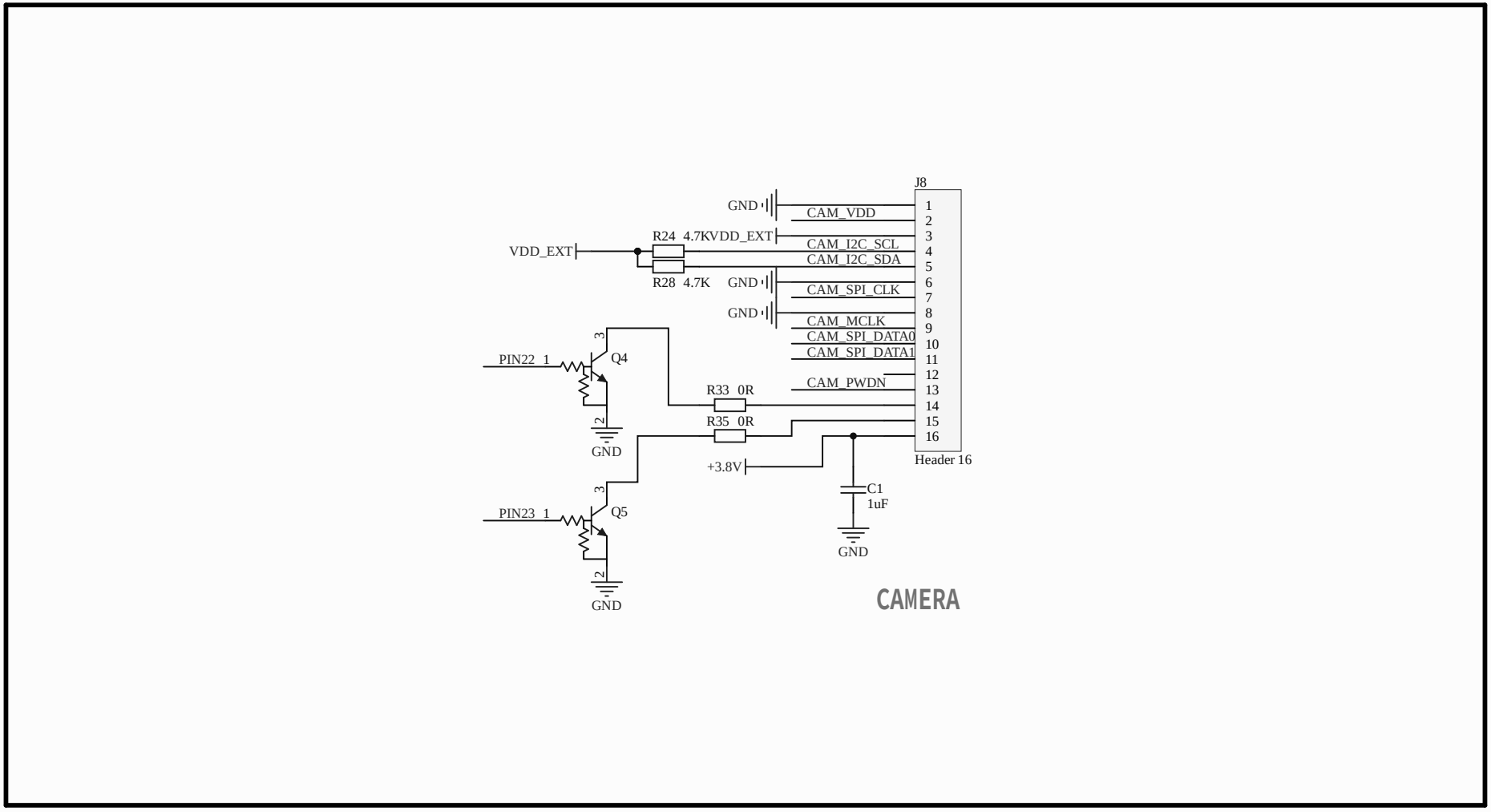

VCC_3V3
R14
40.2K
ADC0_IN
R22
GT36528
10-20K
GND

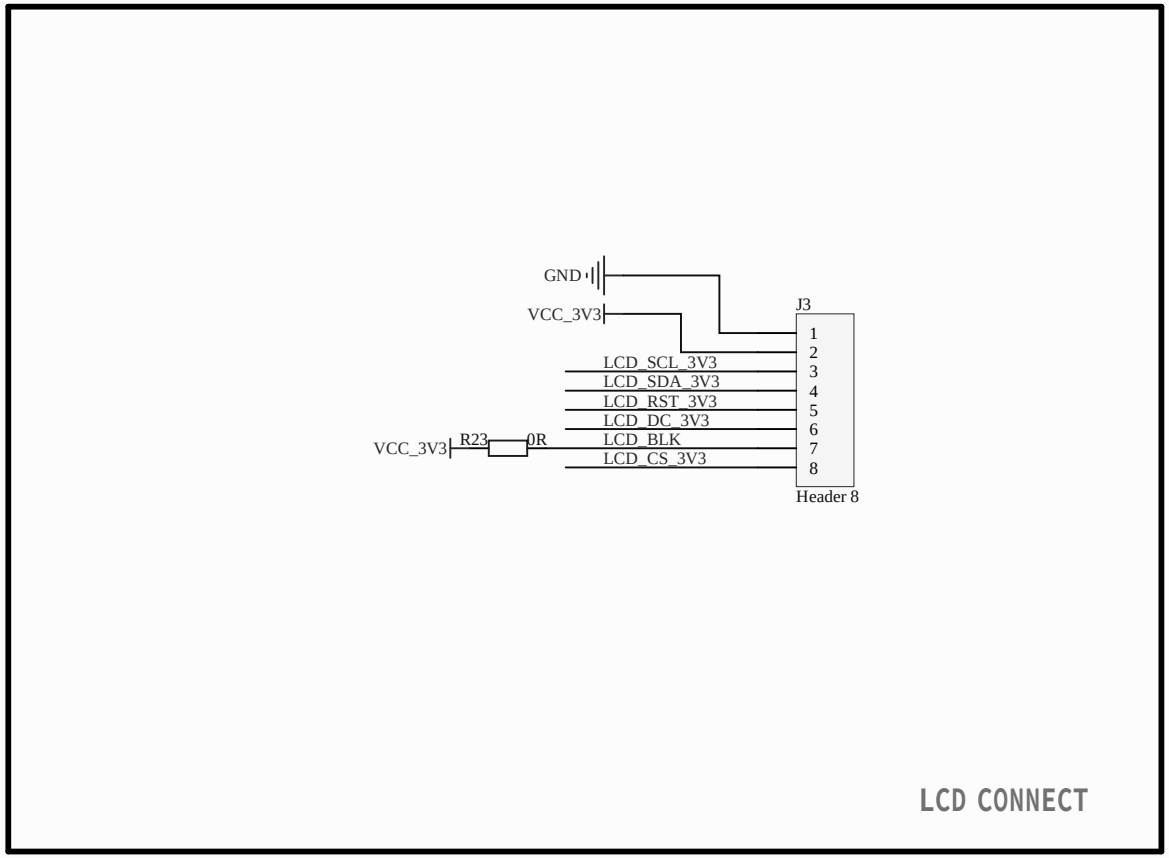
光

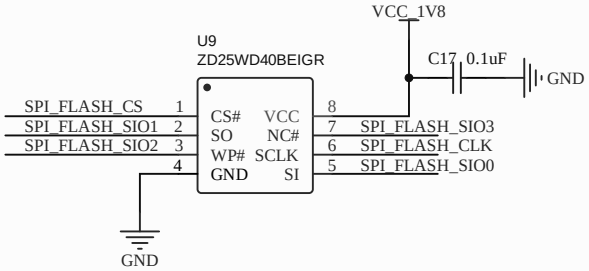

VCC_3V3
C16
0.1uF
GND
U4
AHT20
NC
NC
VDD
GND
SCL
SDA
SCL_3V3
SDA_3V3
GND

传

SENSOR


J8
GND
CAM_VDD
R24 4.7K
VDD_EXT
CAM_I2C_SCL
CAM_I2C_SDA
R28 4.7K
GND
CAM_SPI_CLK
GND
CAM_MCLK
CAM_SPI_DATA0
CAM_SPI_DATA1
PIN22 1
Q4
CAM_PWDN
R33 0R
R35 0R
GND
+3.8V
C1
1uF
PIN23 1
Q5
GND
GND
Header 16
CAMERA


GND
VCC_3V3
J3
1
2
3
4
5
6
7
8
LCD_SCL_3V3
LCD_SDA_3V3
LCD_RST_3V3
LCD_DC_3V3
LCD_BLK
LCD_CS_3V3
VCC_3V3
R23
0R
Header 8
LCD CONNECT


VCC_1V8
U9
ZD25WD40BEIGR
C17 0.1uF
GND
SPI_FLASH_CS 1
SPI_FLASH_SIO1 2
SPI_FLASH_SIO2 3
4
CS# VCC 8
SO NC# 7 SPI_FLASH_SIO3
WP# SCLK 6 SPI_FLASH_CLK
GND SI 5 SPI_FLASH_SIO0
GND

Flash