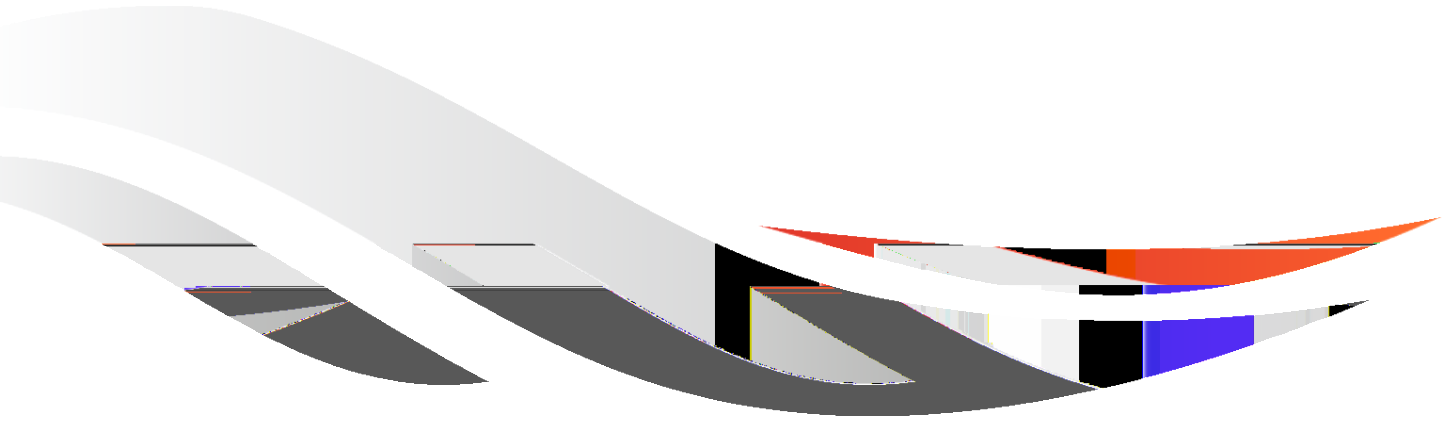
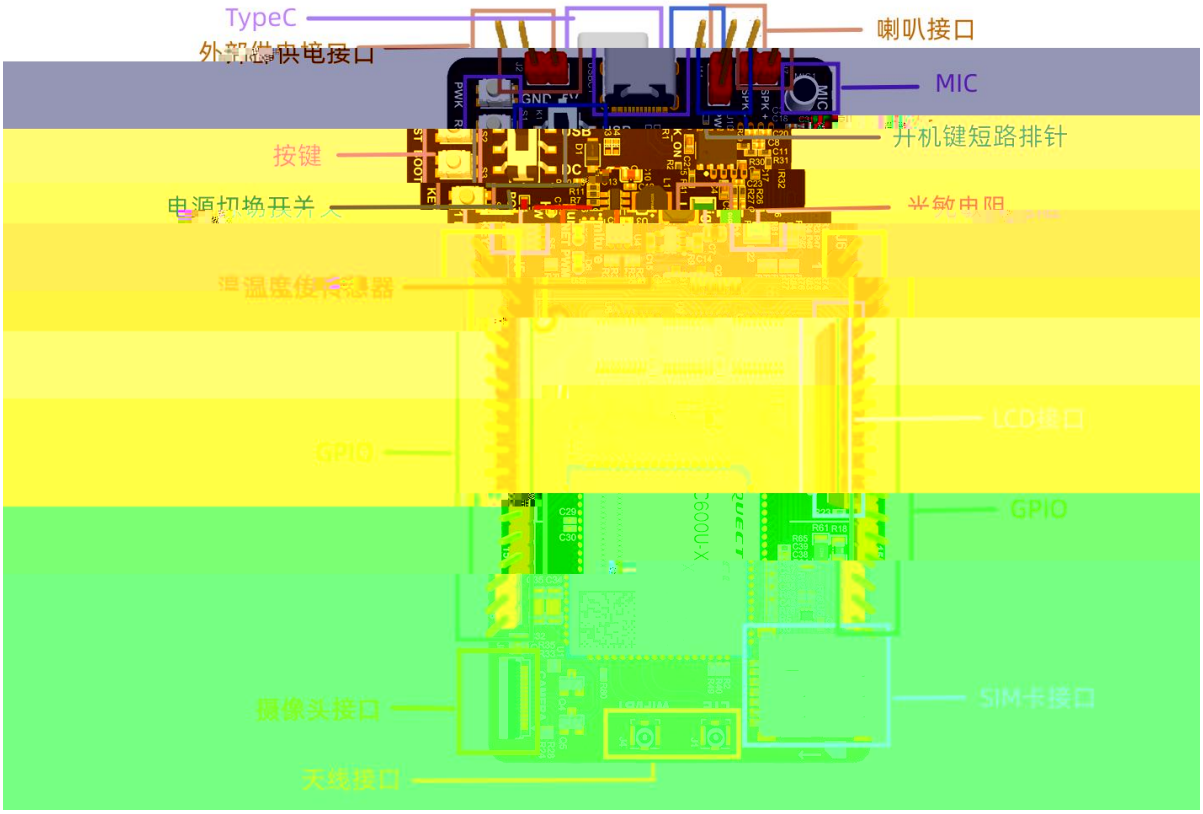
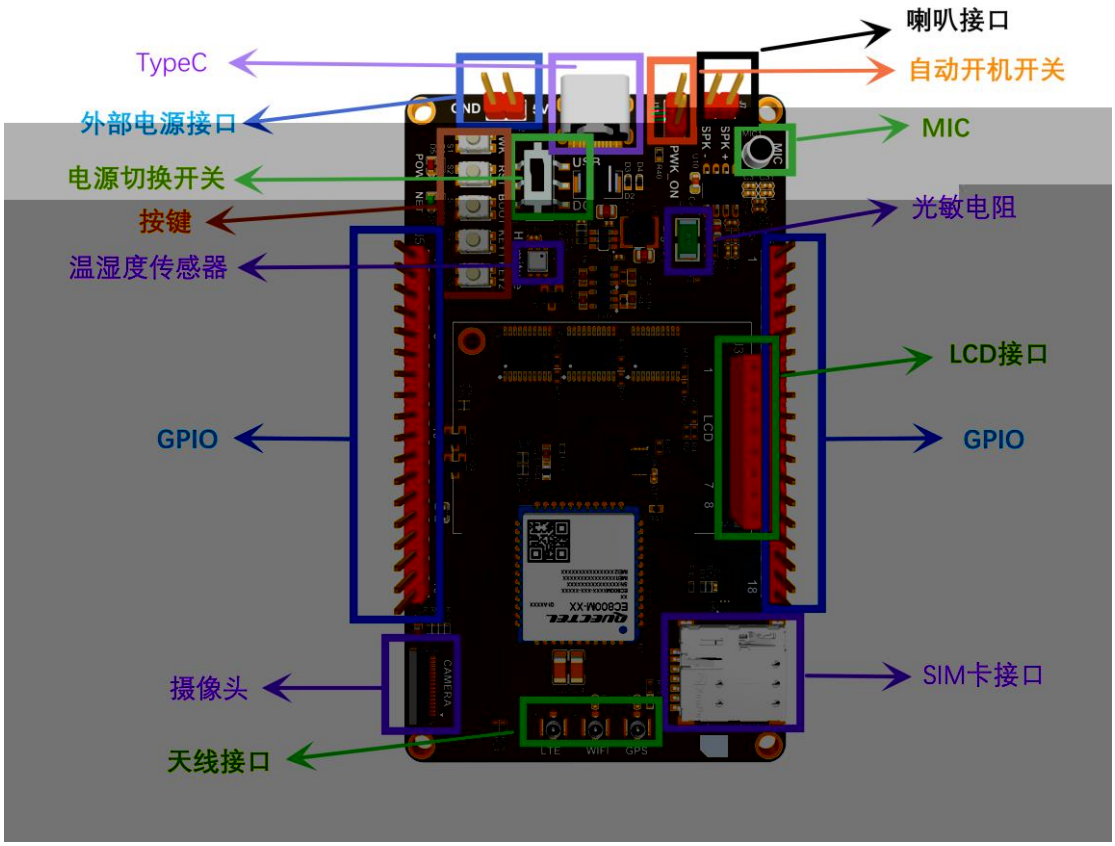
EVB_EC600X、EC800X

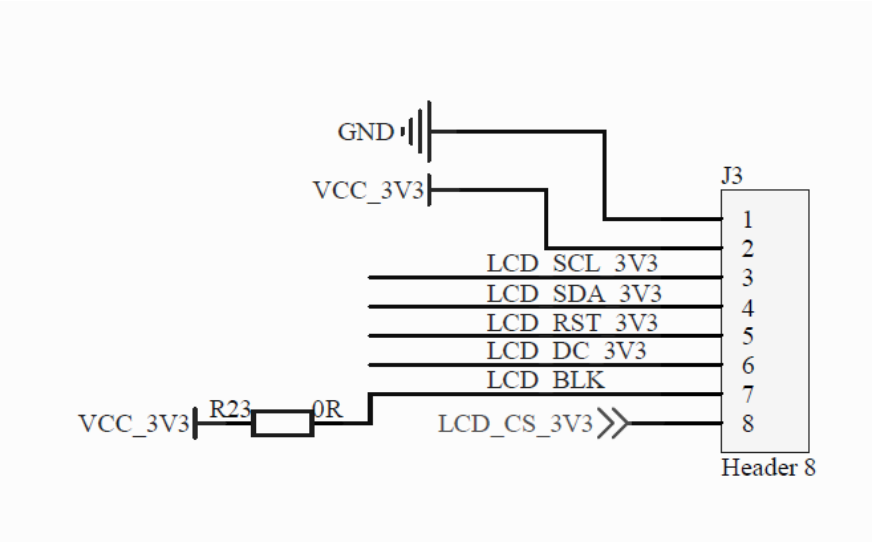
EVB 0X、E800X 3.2

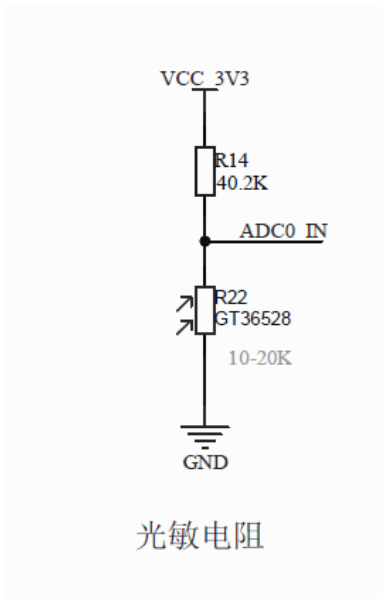
11 07



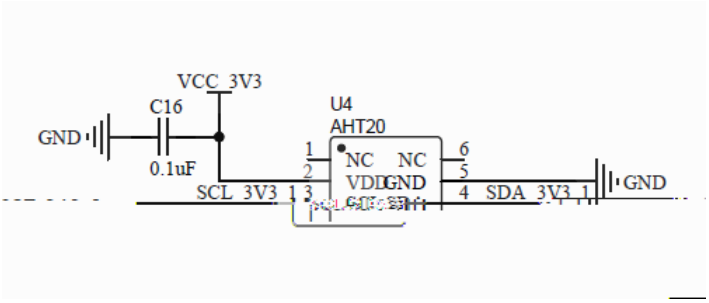

TypeC
外部供电接口
喇叭接口
MIC
开机键短路排针
按键
电源切换开关
LCD接口
GPIO
GPIO
摄像头接口
SIM卡接口
天线接口


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

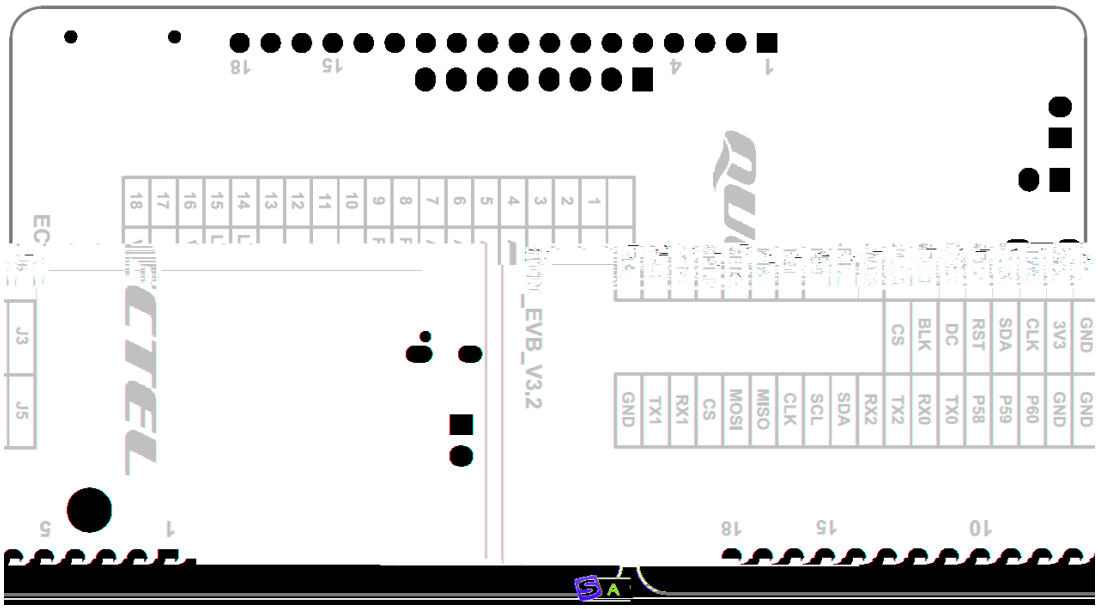

GND
VCC_3V3
J3
1
2
3
4
5
6
7
8
LCD_SCL_3V3
LCD_SDA_3V3
LCD_RST_3V3
LCD_DC_3V3
LCD_BLK
LCD_CS_3V3
VCC_3V3
R23
0R
Header 8

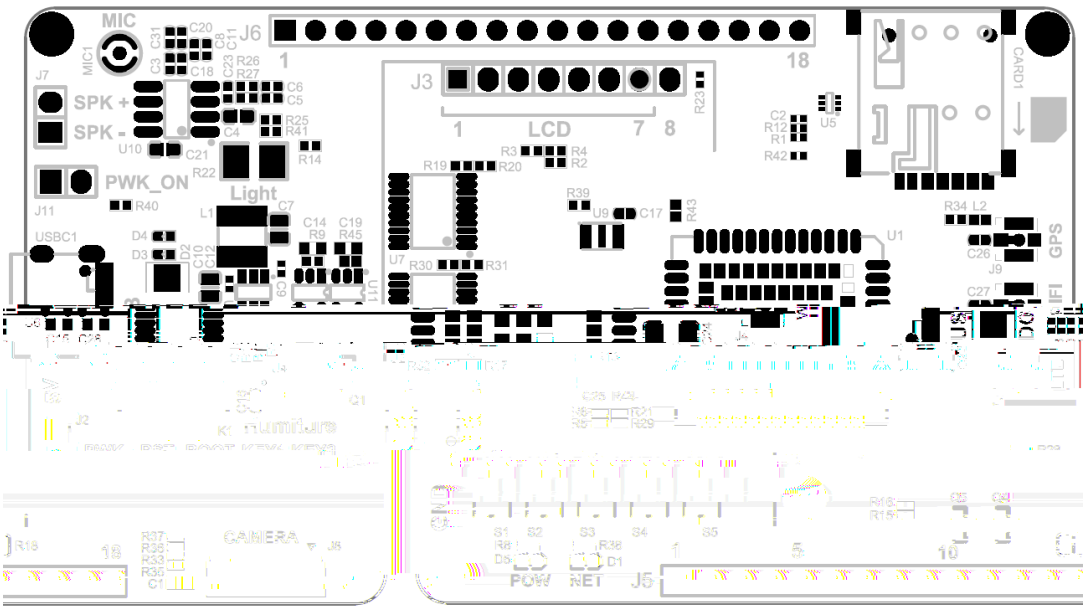

VCC_3V3
R14
40.2K
ADC0_IN
R22
GT36528
10-20K
GND

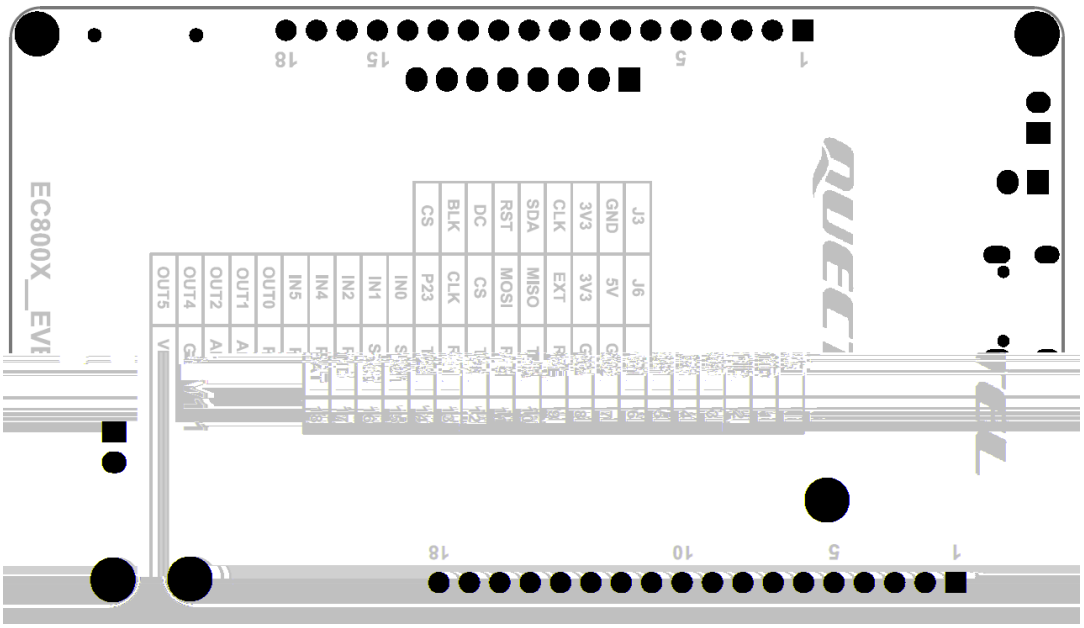
光敏电阻

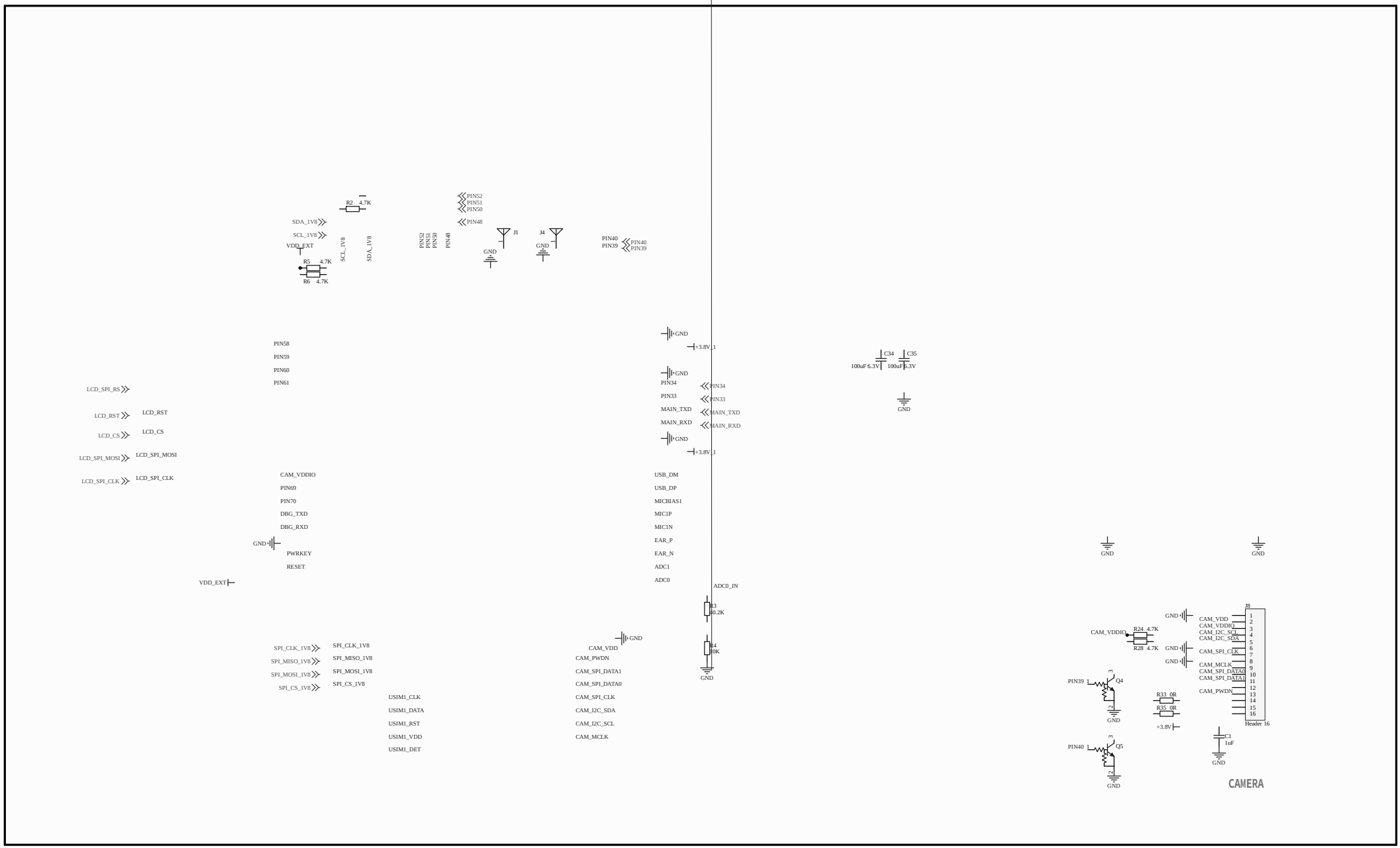

VCC_3V3
C16
GND
0.1uF
U4
AHT20
NC
NC
VDD
GND
SCL_3V3_1
SDA_3V3_1
GND

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)


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


MIC
SPK +
SPK -
PWK_ON
Light
USBC1
J6
J3
LCD
CAMERA
J5
GPS
LTE


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



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Date: 3-31-2023		Sheet of
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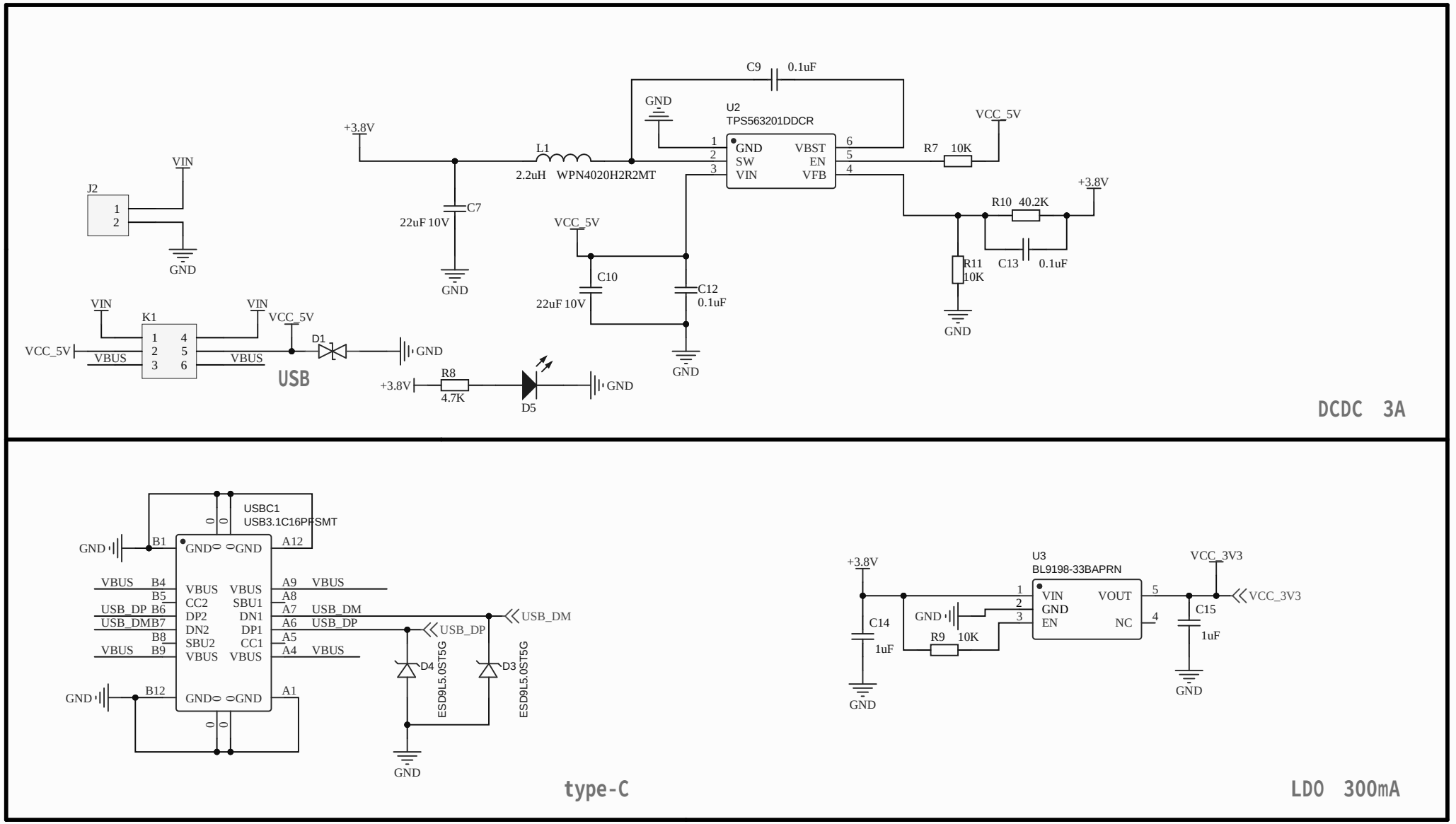

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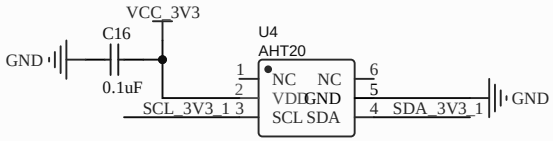
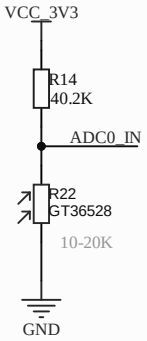
Size A4	Number	Revision
Date: 3-31-2023		Sheet of
File: G:\ \..\2.POWER.SchDoc		Drawn By:





SENSOR

Title		
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Date: 3-31-2023		Sheet of
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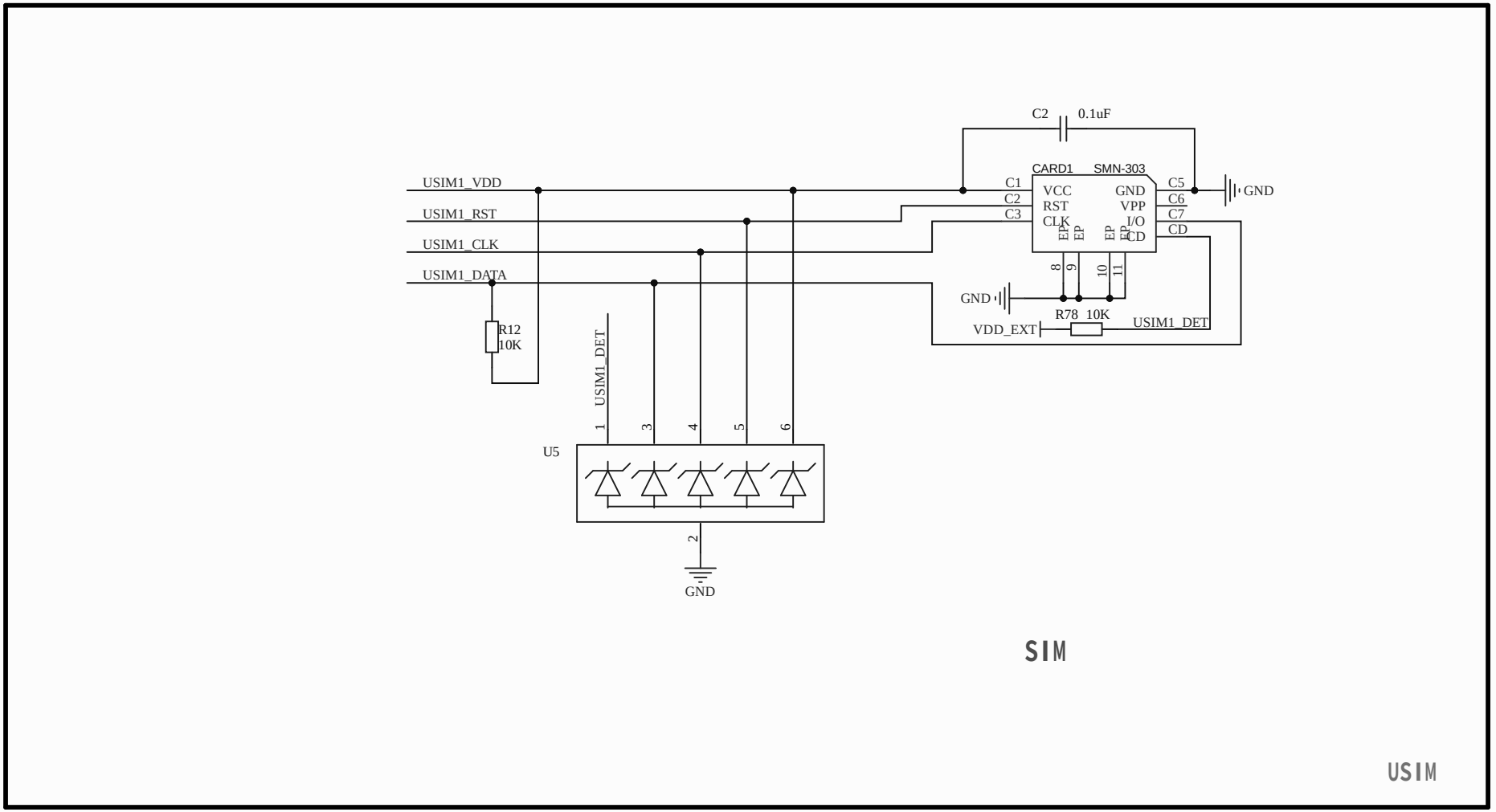

Title		
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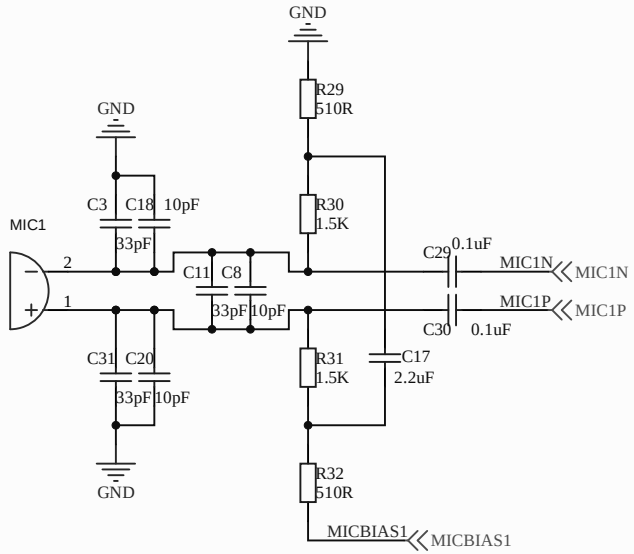

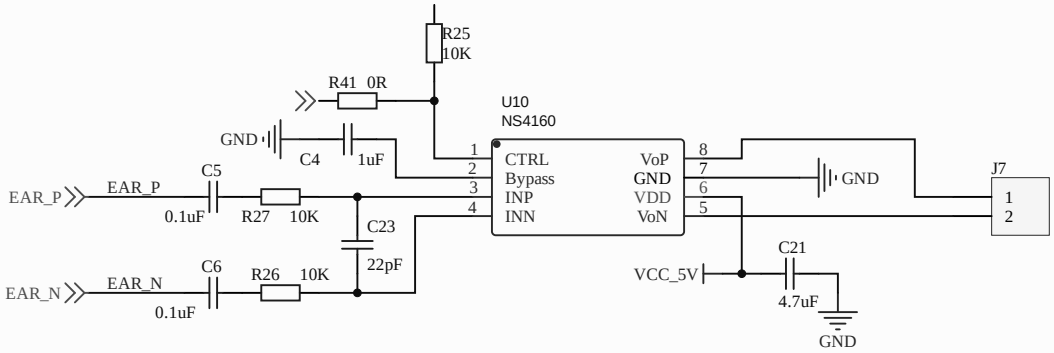

AUDIO

Title		
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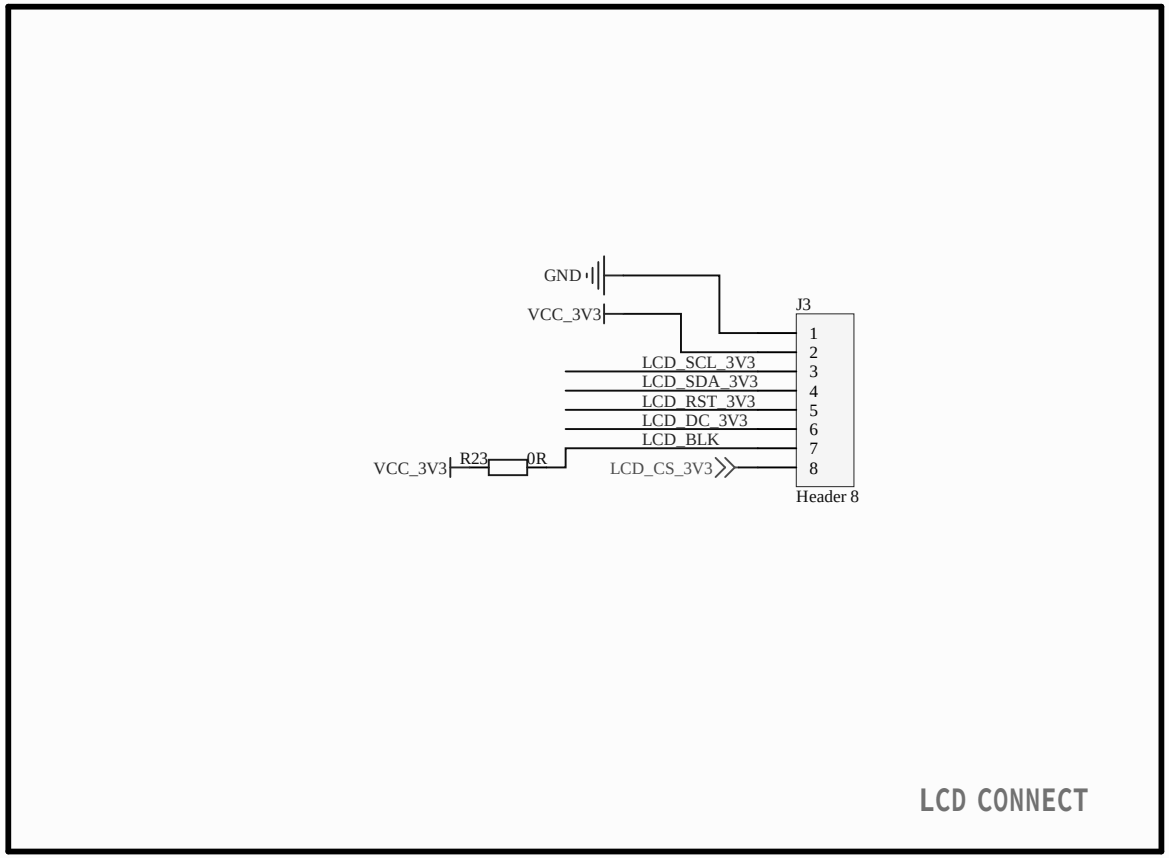

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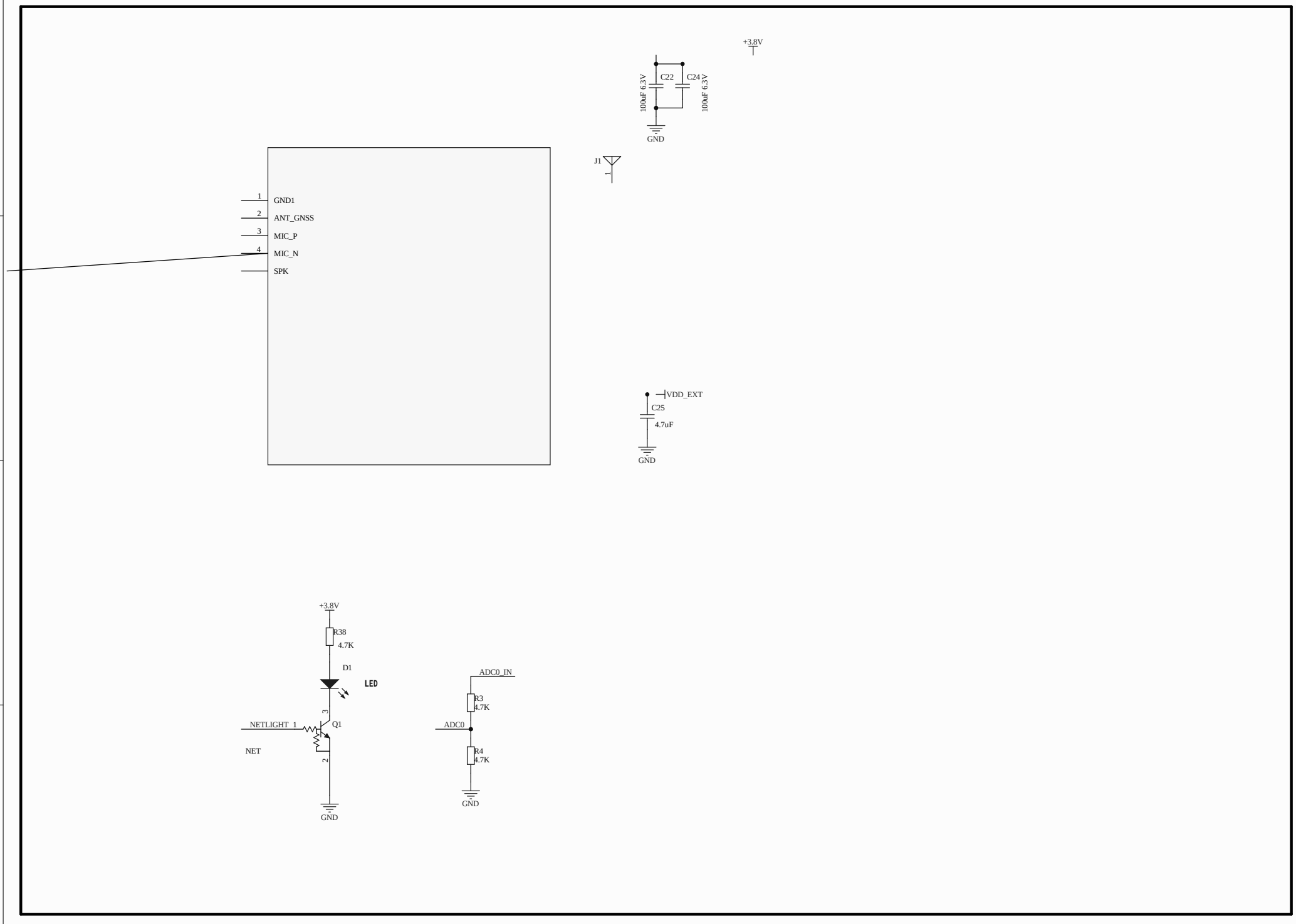
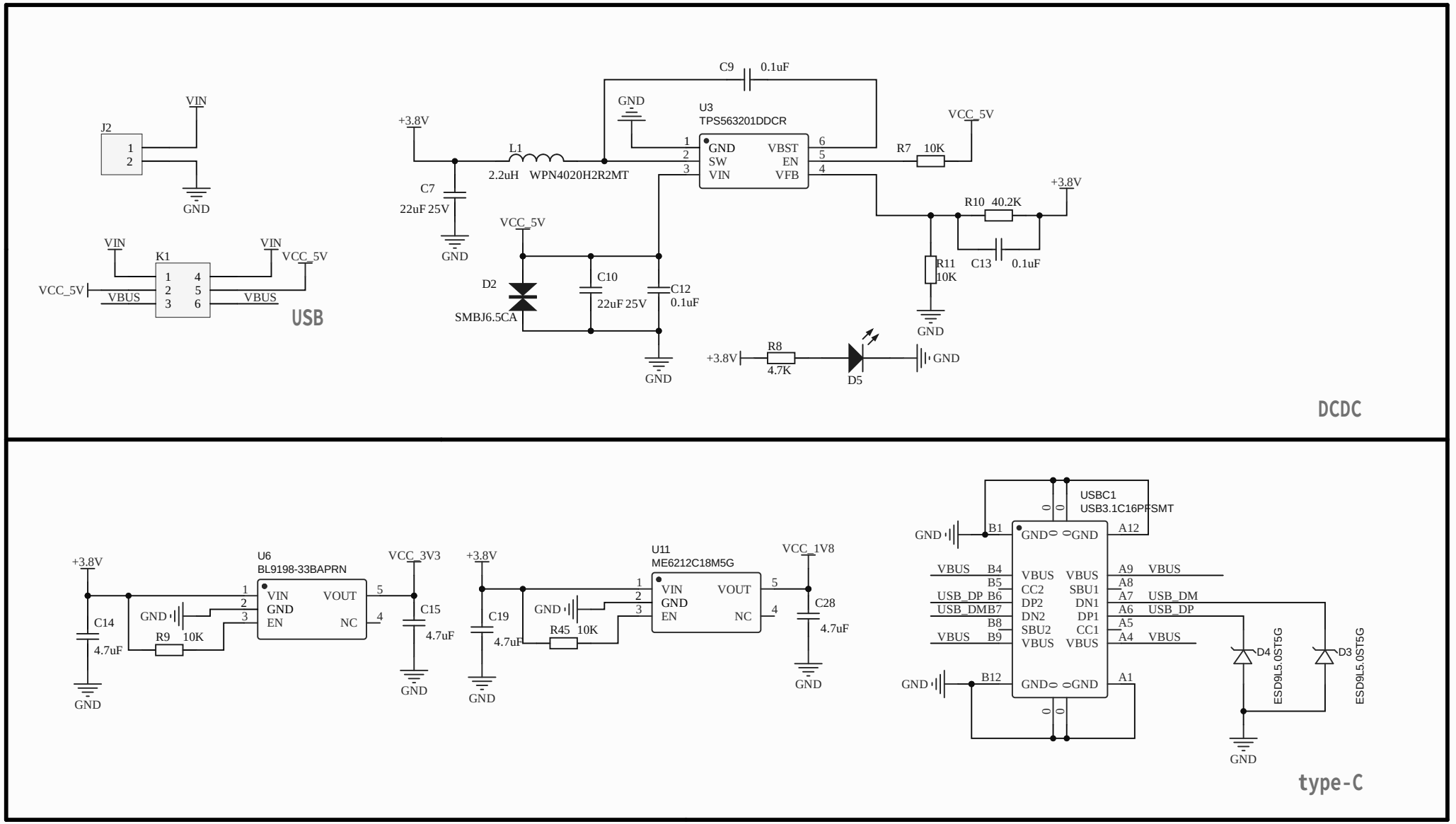
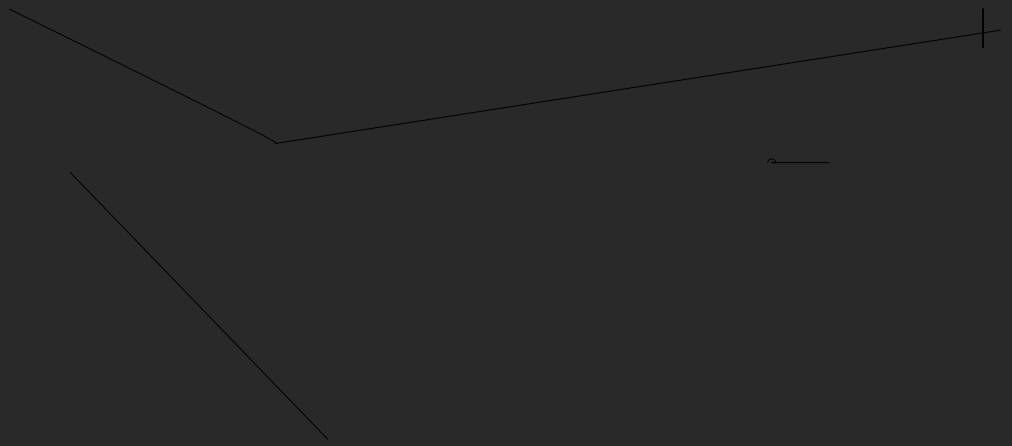
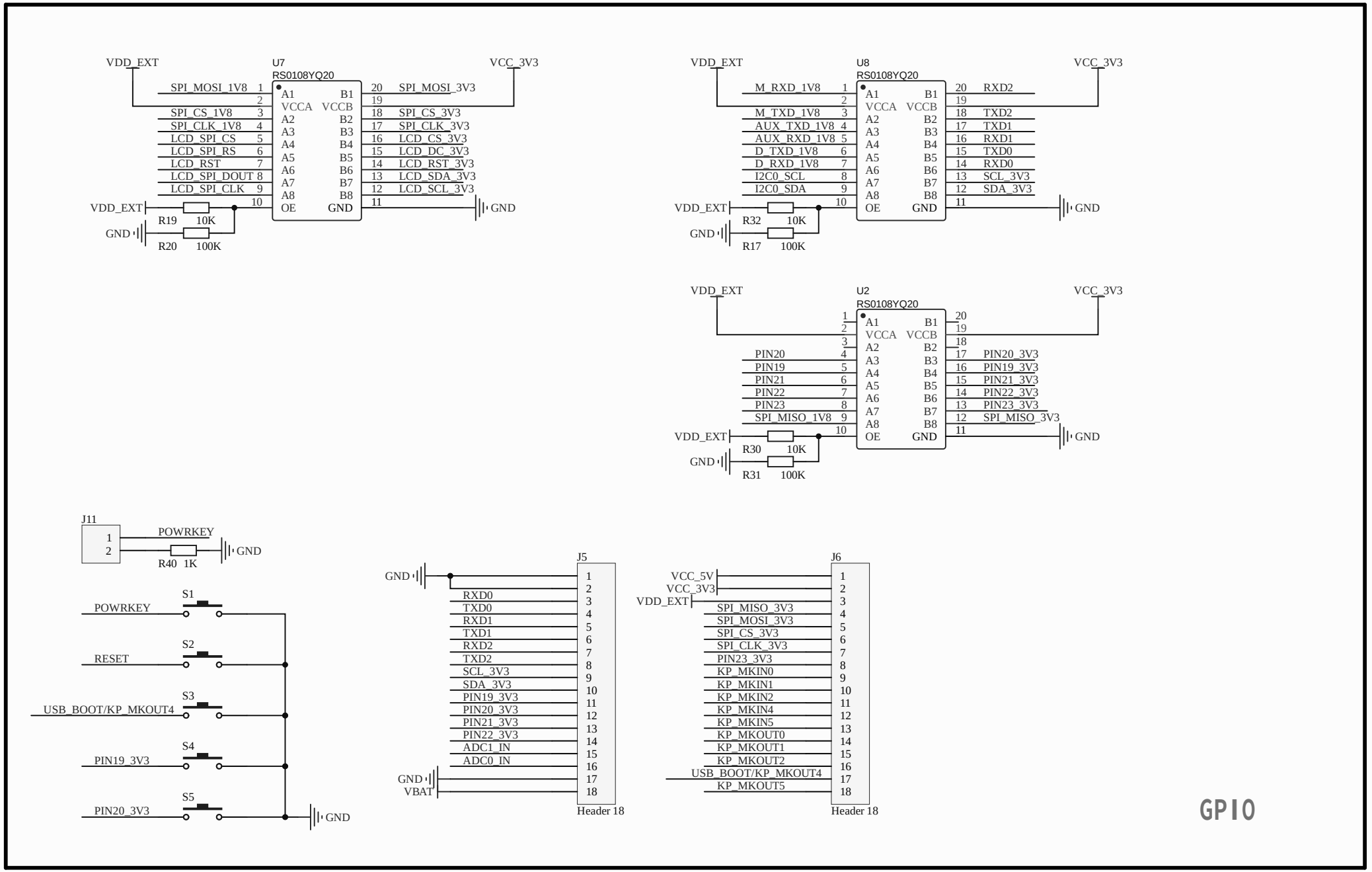
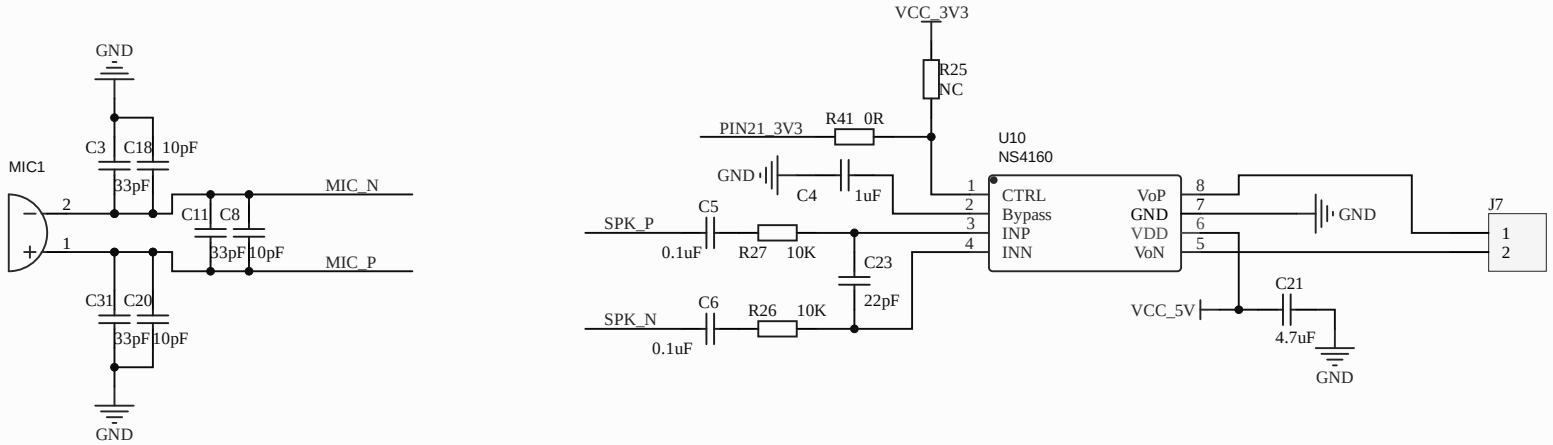

+3.8V
C22
C24
100uF 6.3V
100uF 6.3V
GND
J1
1
GND1
ANT_GNSS
MIC_P
MIC_N
SPK
VDD_EXT
C25
4.7uF
GND
+3.8V
R38
4.7K
D1
LED
NETLIGHT_1
Q1
NET
ADC0_IN
R3
4.7K
ADC0
R4
4.7K
GND
GND


J2
VIN
GND
K1
VIN
VCC_5V
VBUS
USB
C9
0.1uF
U3
TPS563201DDCR
+3.8V
L1
2.2uH
WPN4020H2R2MT
GND
SW
VIN
VBST
EN
VFB
R7
10K
C7
22uF 25V
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
B1
A12
VBUS
CC2
DP2
DN2
SBU2
B12
A1
A9
A8
A7
A6
A5
A4
USB_DM
USB_DP
D4
D3
ESD9L5.0ST5G
type-C

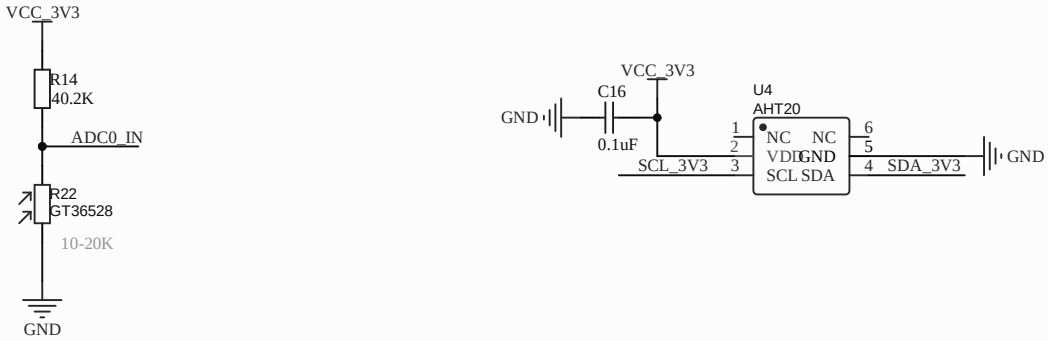



VDD_EXT
U7
RS0108YQ20
VCC_3V3
SPI_MOSI_1V8
SPI_CS_1V8
SPI_CLK_1V8
LCD_SPI_CS
LCD_SPI_RS
LCD_RST
LCD_SPI_DOUT
LCD_SPI_CLK
A1
VCCA
A2
A3
A4
A5
A6
A7
A8
OE
B1
VCCB
B2
B3
B4
B5
B6
B7
B8
GND
SPI_MOSI_3V3
SPI_CS_3V3
SPI_CLK_3V3
LCD_CS_3V3
LCD_DC_3V3
LCD_RST_3V3
LCD_SDA_3V3
LCD_SCL_3V3
R19 10K
R20 100K
U8
M_RXD_1V8
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

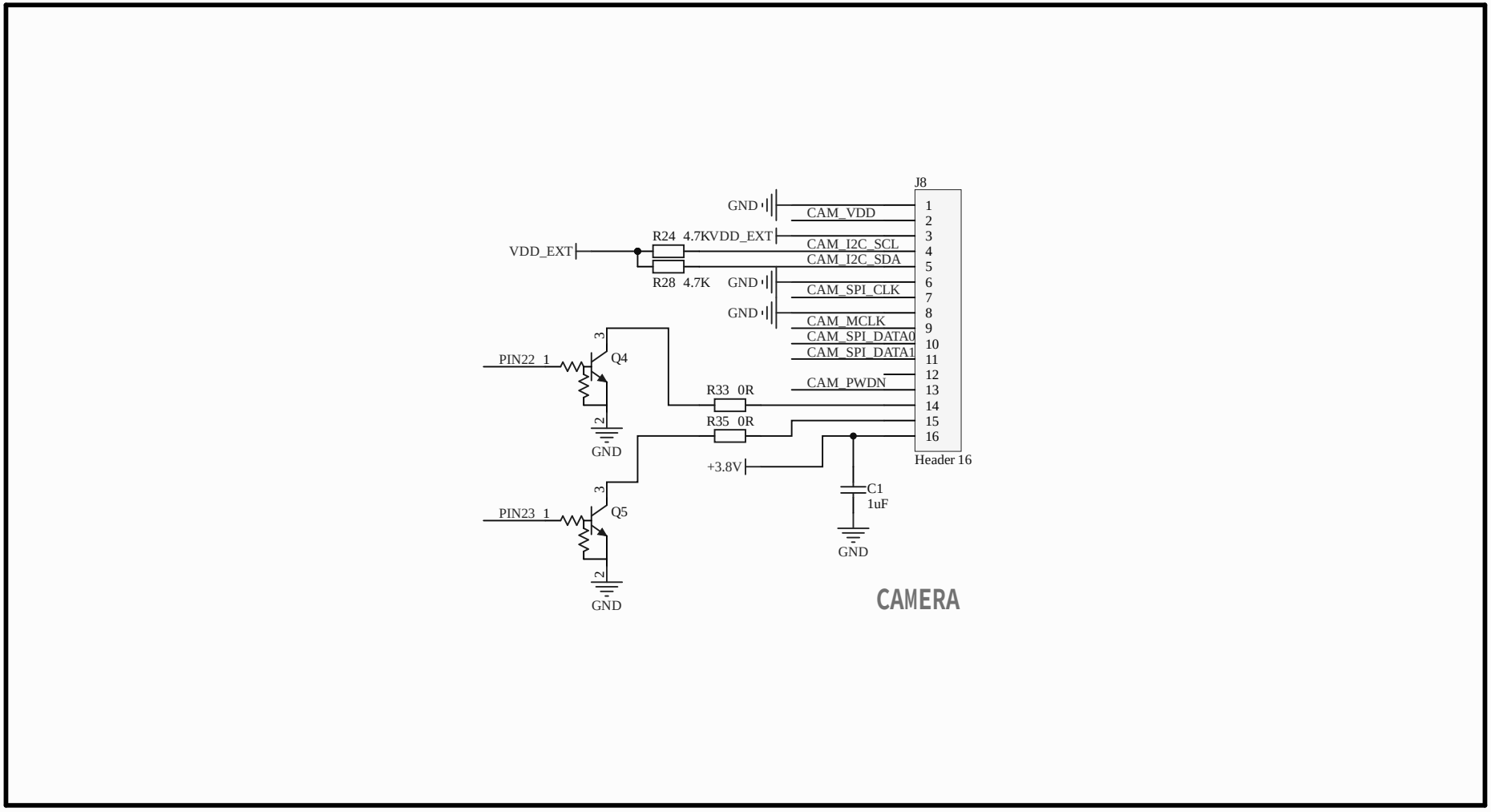

GND
C3
C18
10pF
33pF
MIC1
2
1
C11
C8
33pF
10pF
MIC_N
MIC_P
C31
C20
33pF
10pF
GND
VCC_3V3
R25
NC
PIN21_3V3
R41
0R
U10
NS4160
GND
C4
1uF
SPK_P
C5
0.1uF
R27
10K
C23
22pF
SPK_N
C6
0.1uF
R26
10K
CTRL
Bypass
INP
INN
VoP
GND
VDD
VoN
GND
J7
1
2
VCC_5V
C21
4.7uF
GND

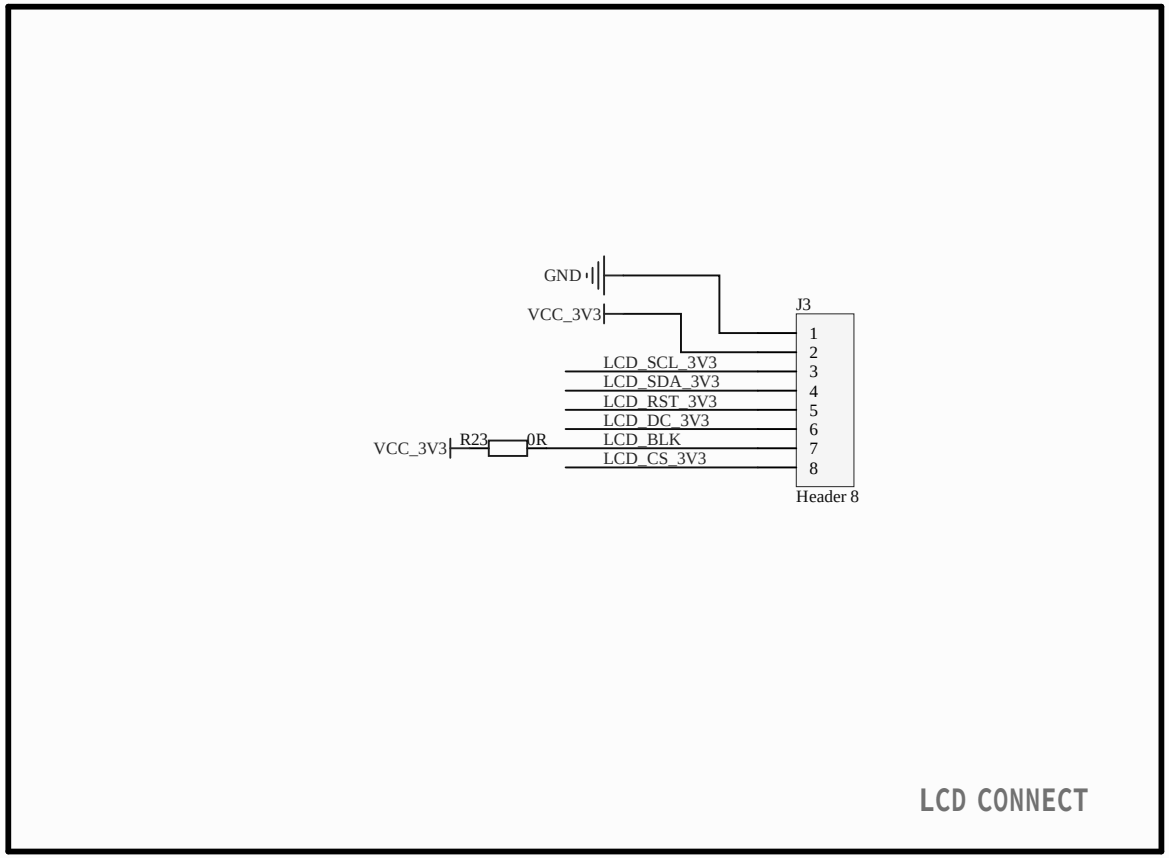
AUDIO

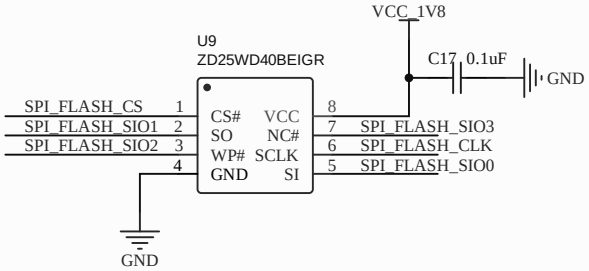
AUDIO


VCC_3V3
R14
40.2K
ADC0_IN
R22
GT36528
10-20K
GND
VCC_3V3
C16
0.1uF
GND
U4
AHT20
1
2
3
NC
VDD
SCL
NC
GND
SDA
6
5
4
SCL_3V3
SDA_3V3
GND

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