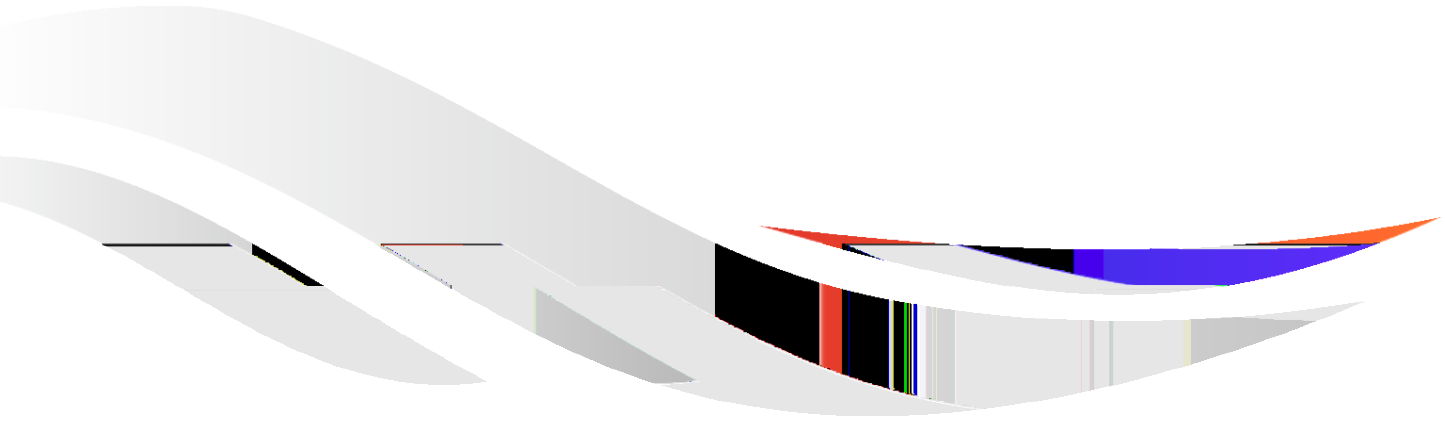
EVB_EC600X、EC800X

EVB 0X、E800X 3.2

11 07



QUECTEL_EVB_V3.x Cat.1

QUECTEL_EVB_V3.x

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

QUECTEL_EVB_V3.x x=0,1,2,3 V3.2
EC600X EC800X
SIM LCD
MIC
QUECTEL_EVB_V3.2 V3.2

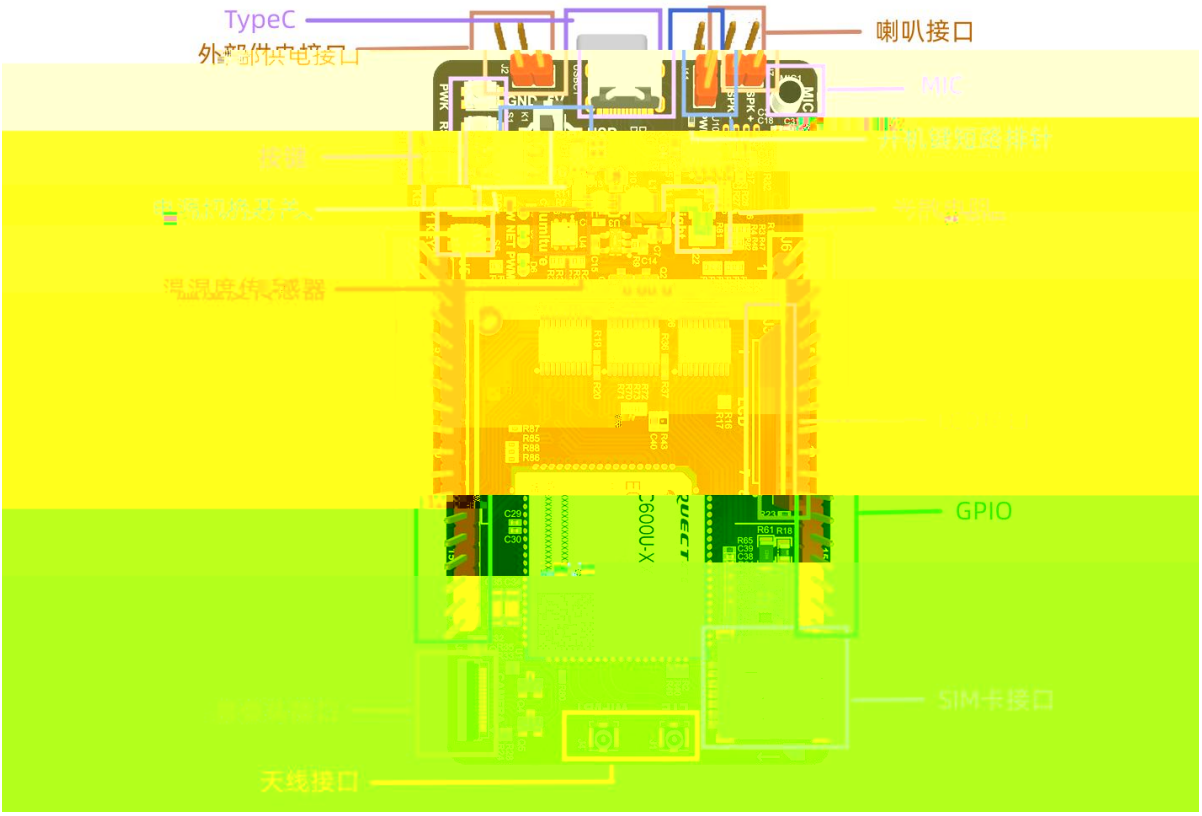
USB Type-C

- Quectel EC600X EC800X Cat.1
- NANO SIM
- GPS LTE WIFI/BT
- USB Type-C
-
-
- 4 3W
-
- LED
- MIC
- Speaker
-
- GPIO
- LCD
- CAMERA
-

QuecPython AT openC

EC600X EC800X Cat.1

EC600X EVB V3.2



EC800X EVB V1.1

EC600X EVB V3.2 EC800X EVB V1.1

} Y	c 5	¹ Y	Š j V	/ L l ¹

4.1 LCD

LCD LCD

LVGL

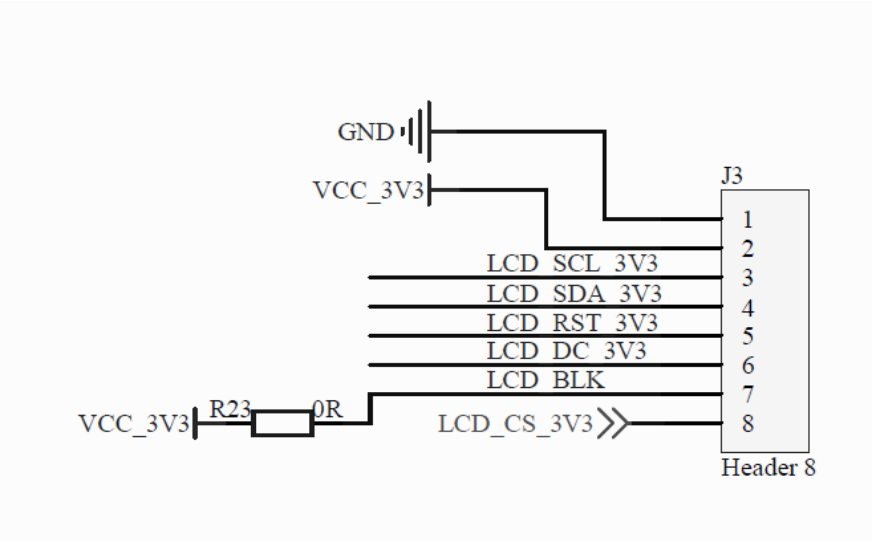
QuecPython

GC9305

HX8347

ST7789

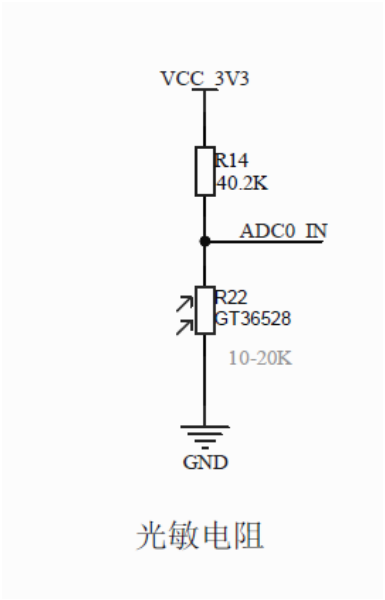
ST7735



4.2

GL36528

1.5M 1K



{ | ¿

4.3

AHT20

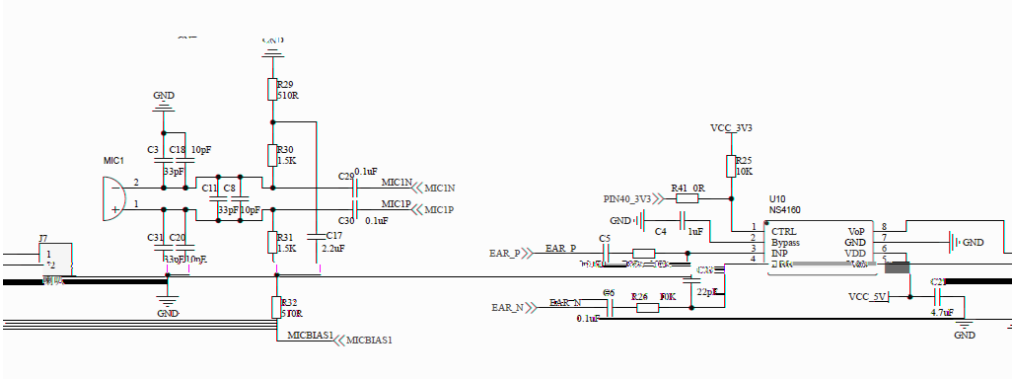
4.4

V1.1 AW8733ATQR

K , TDD EMI

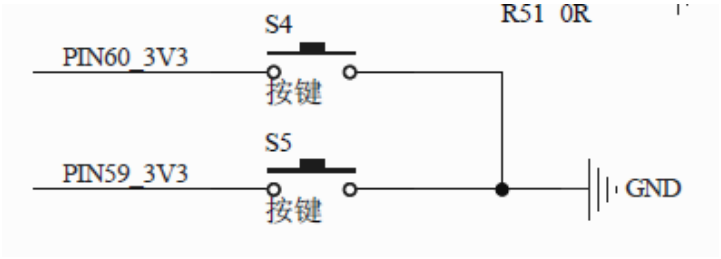
2.0W V1.2 V1.3 V3.2 NS4160 AB /D

EMI 5W


GND
R29
510R
C3
C18
10pF
MIC1
33pF
C11
C8
R30
1.5K
C29
0.1uF
MIC1N
MIC1P
C30
0.1uF
C31
C20
C17
2.2nF
R31
1.5K
J7
GND
R32
510R
MICBIAS1
VCC_3V3
R25
10K
PIN40_3V3
R41 0R
GND
C4
1uF
U10
NS4160
CTRL
Bypass
INP
INN
VoP
GND
VDD
VoN
GND
EAR_P
C5
C24
22pF
EAR_N
R26
C21
4.7uF
VCC_5V
GND

4.5

2


R51 0R
S4
PIN60_3V3
按键
S5
PIN59_3V3
按键
GND

5.1

* * * *

• F Â	• ² R €

5.2 USB

USB

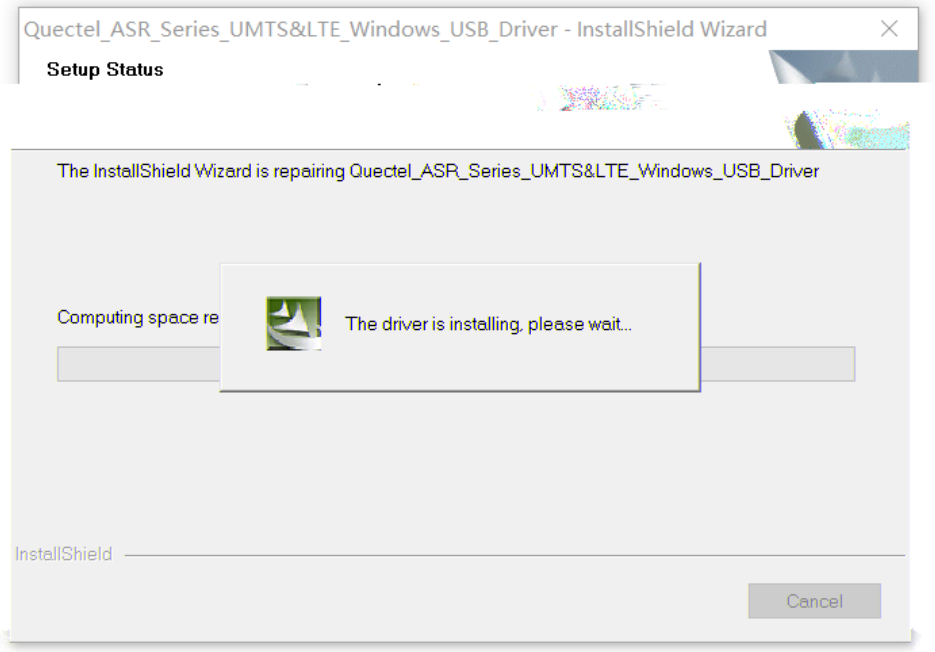
https://python.quectel.com/download

** **

1. ASR EC600M EC600S EC600N EC100Y RDA EC600G EC600U EC200U EC600X EC600X X EC600S EC600U PC Windows7 Windows7 Windows10 Windows10
2. EC600SCNLA EC600SCNLB V1.0.8 ASR

setup.exe

Install



Finish

ASR USB
RDA

setup.bat

EC200U EC600U

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)

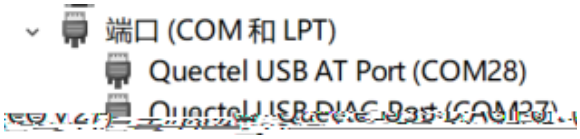
3 6

USB

QQ 445121768
Quectel USB MI05 COM Port

QuecPython

QuecPython

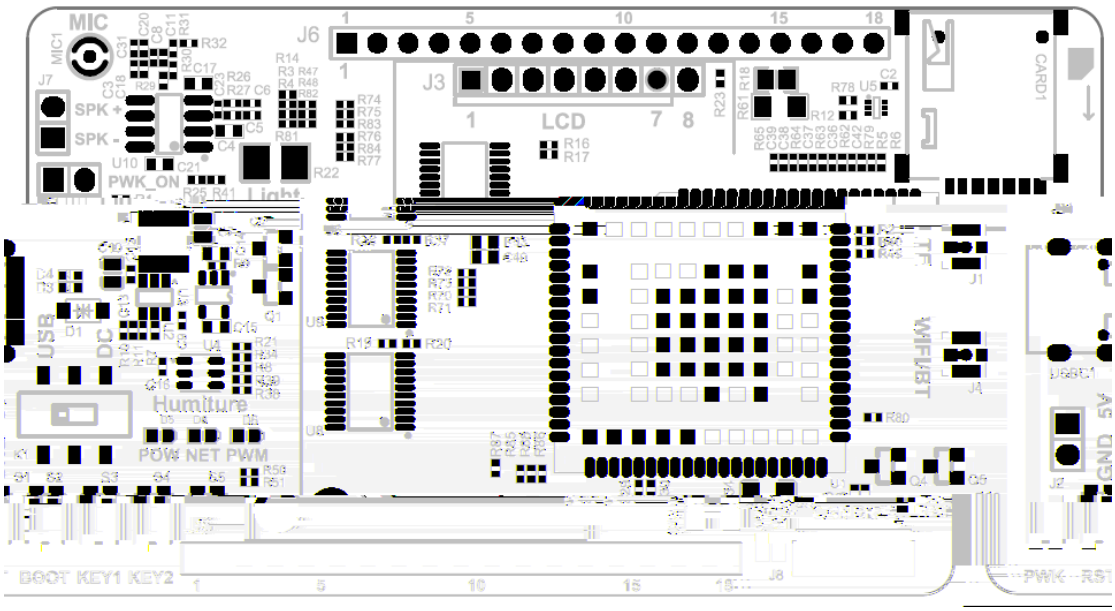


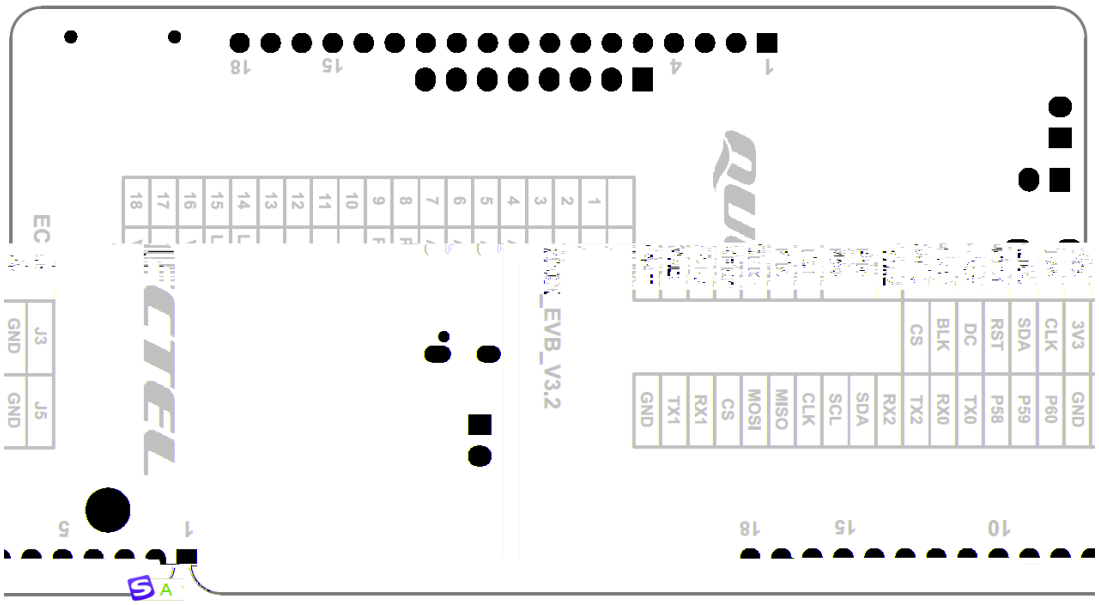
QuecPython

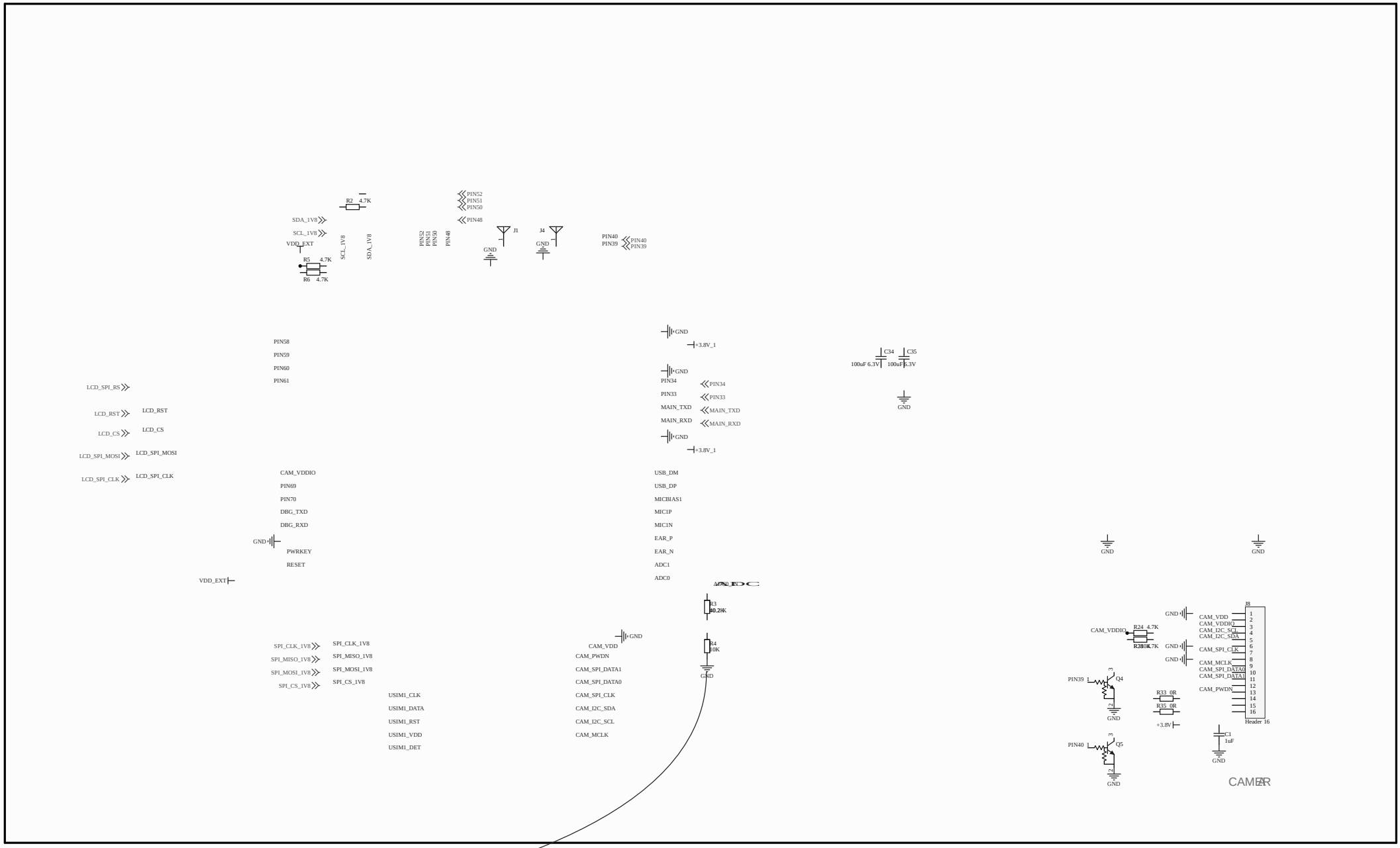
Q
A QuecPython http://python.quectel.com/download
Q
A QuecPython http://python.quectel.com/download
P.S. QuecPython
QuecPython
QQ 445121768

QuecPython
https://python.quectel.com
https://python.quectel.com/download
wiki API
https://python.quectel.com/wiki/#/
( )
https://python.quectel.com/doc/
https://workorder.quectel.com/
QuecPython
https://forumschinese.quectel.com/c/function-subjects/quectpython/43
QuecPython QQ 445121768
QuecPython
OTA https://cloudota.quectel.com/
IoT
https://python.quectel.com/doc/doc/Advanced_development/zh/QuecPython Cloud/QuecCloud.html

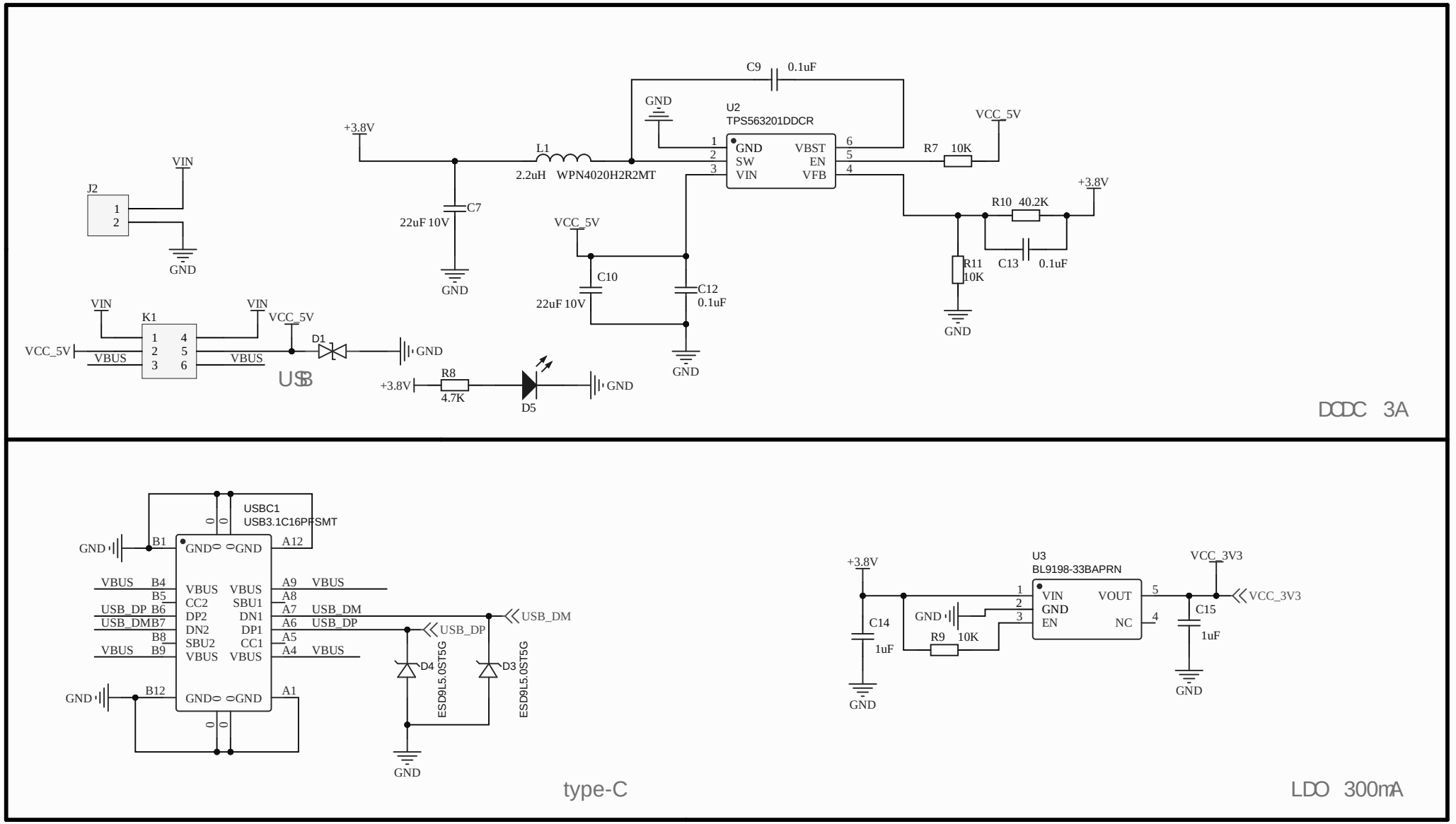
1 EC600X EVB V3.2



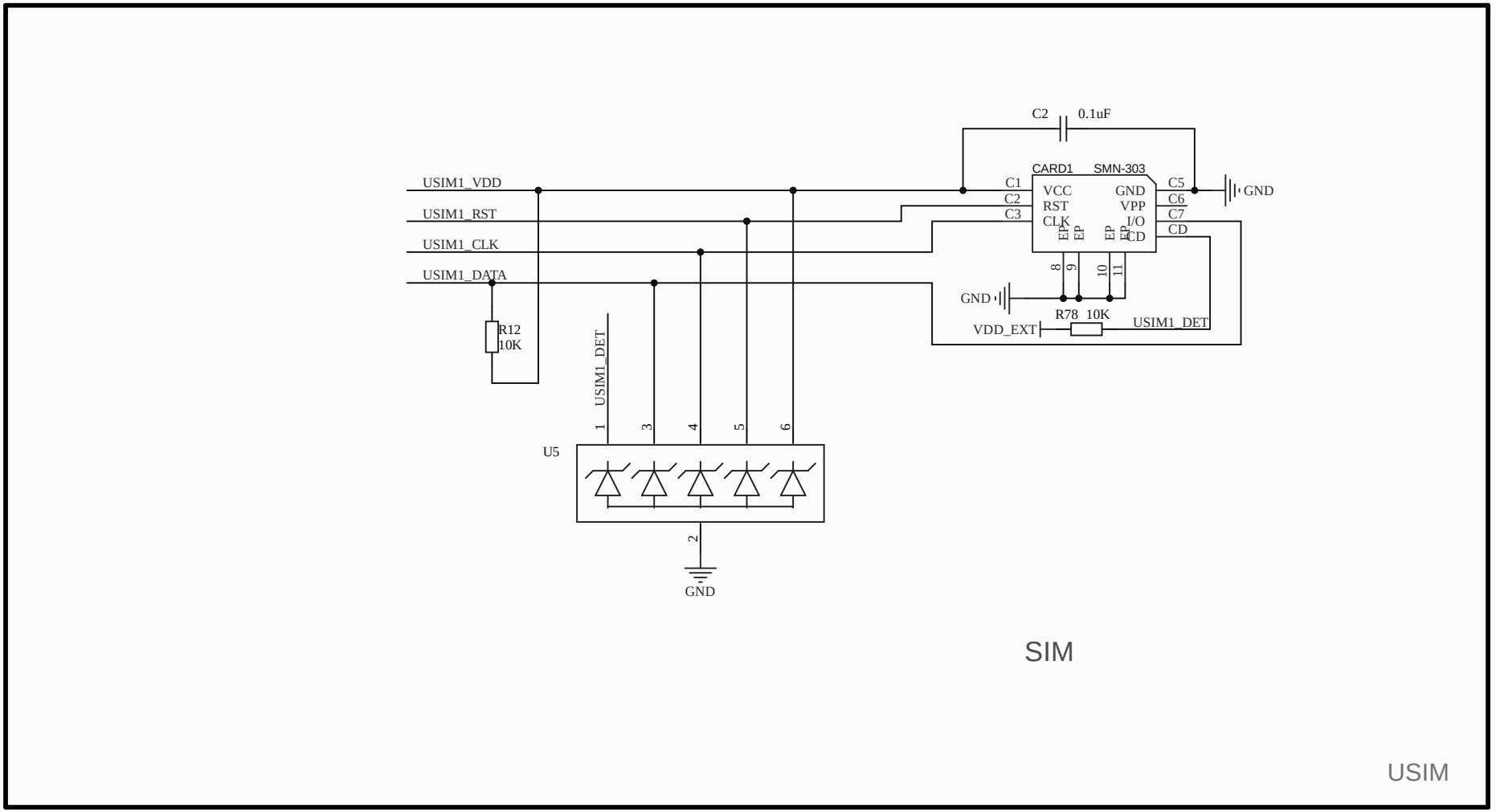




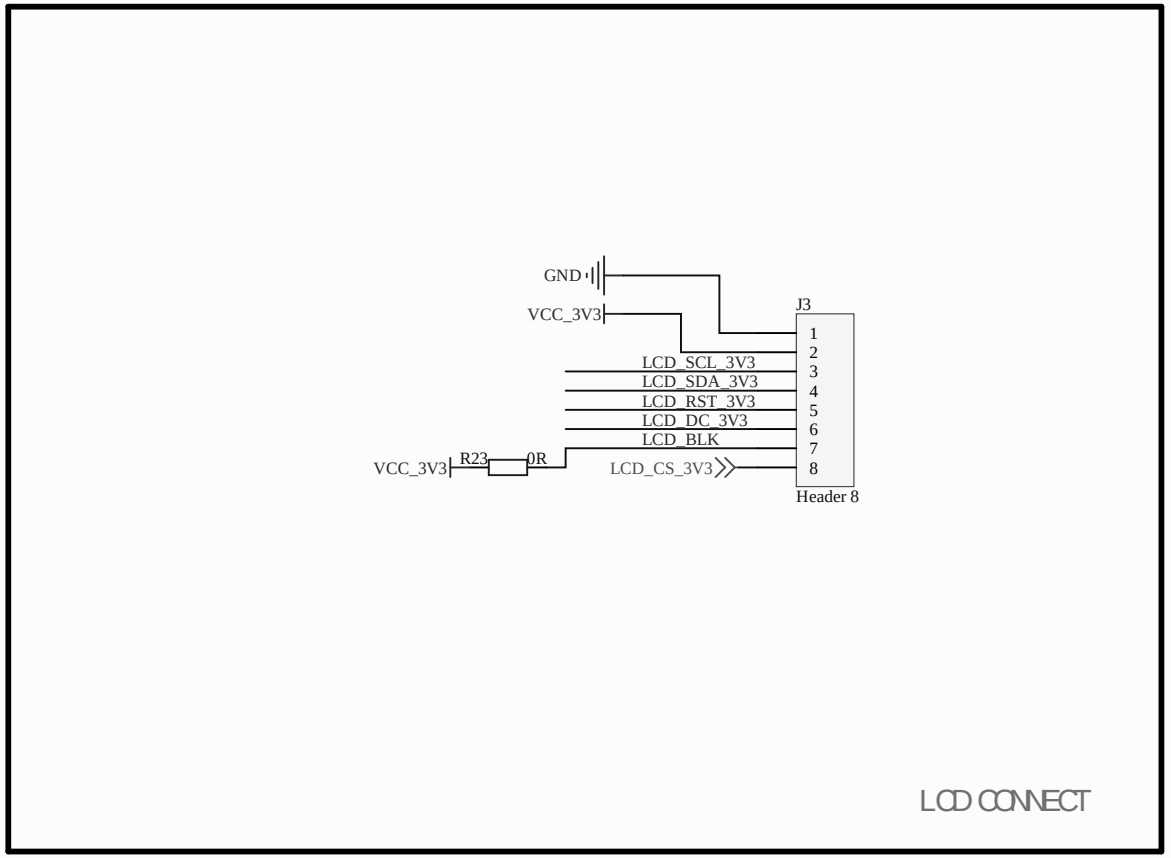
Title	EC600S	
Size: A2	Number	Revision
Date: 3-31-2023		Sheet of
File: G:\...\EC600S.SchDoc		Drawn By:



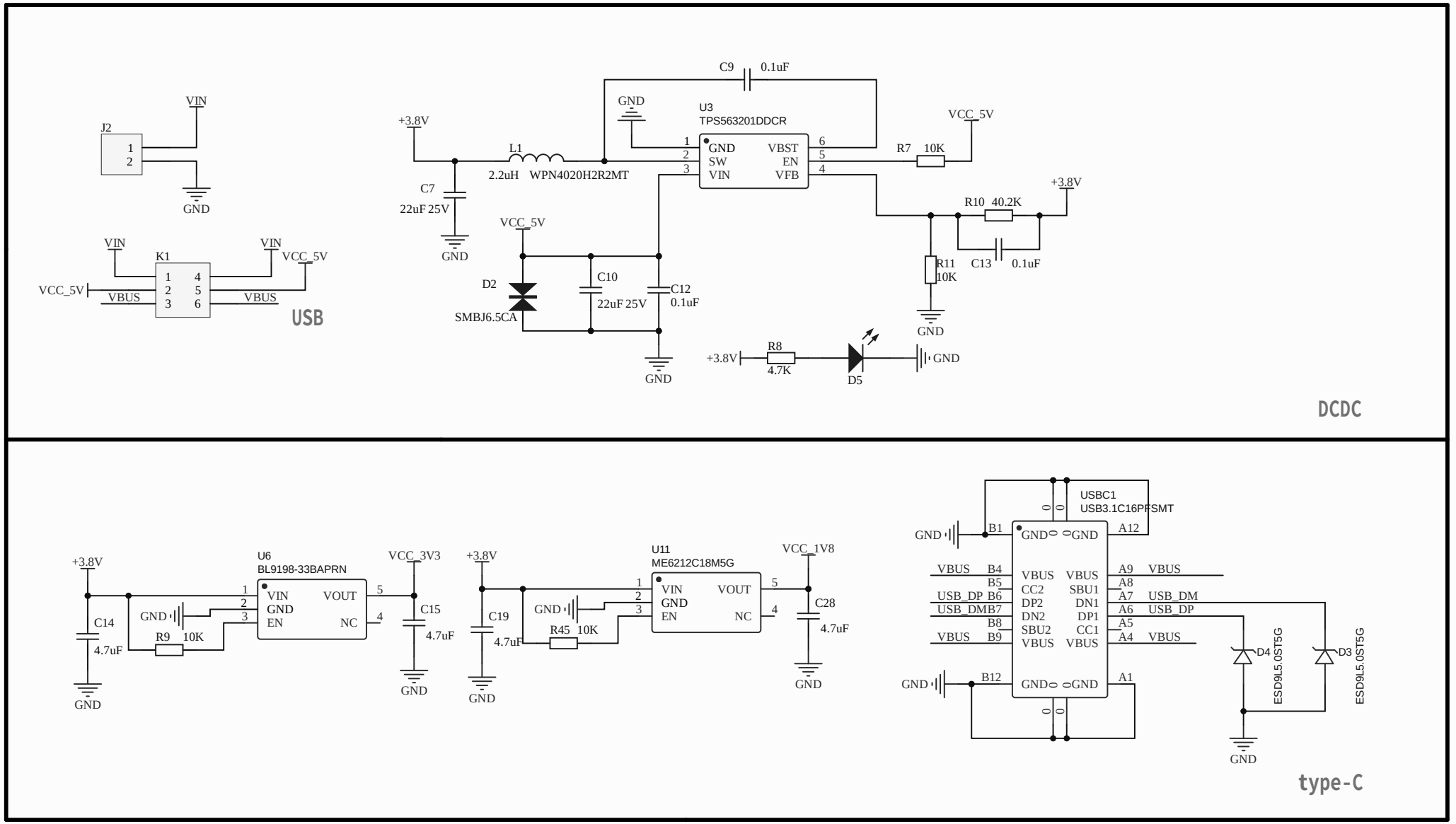
Title		
Size A4	Number	Revision
Date: 3-31-2023		Sheet of
File: G:\ \..\2.POWER.SchDoc		Drawn By:

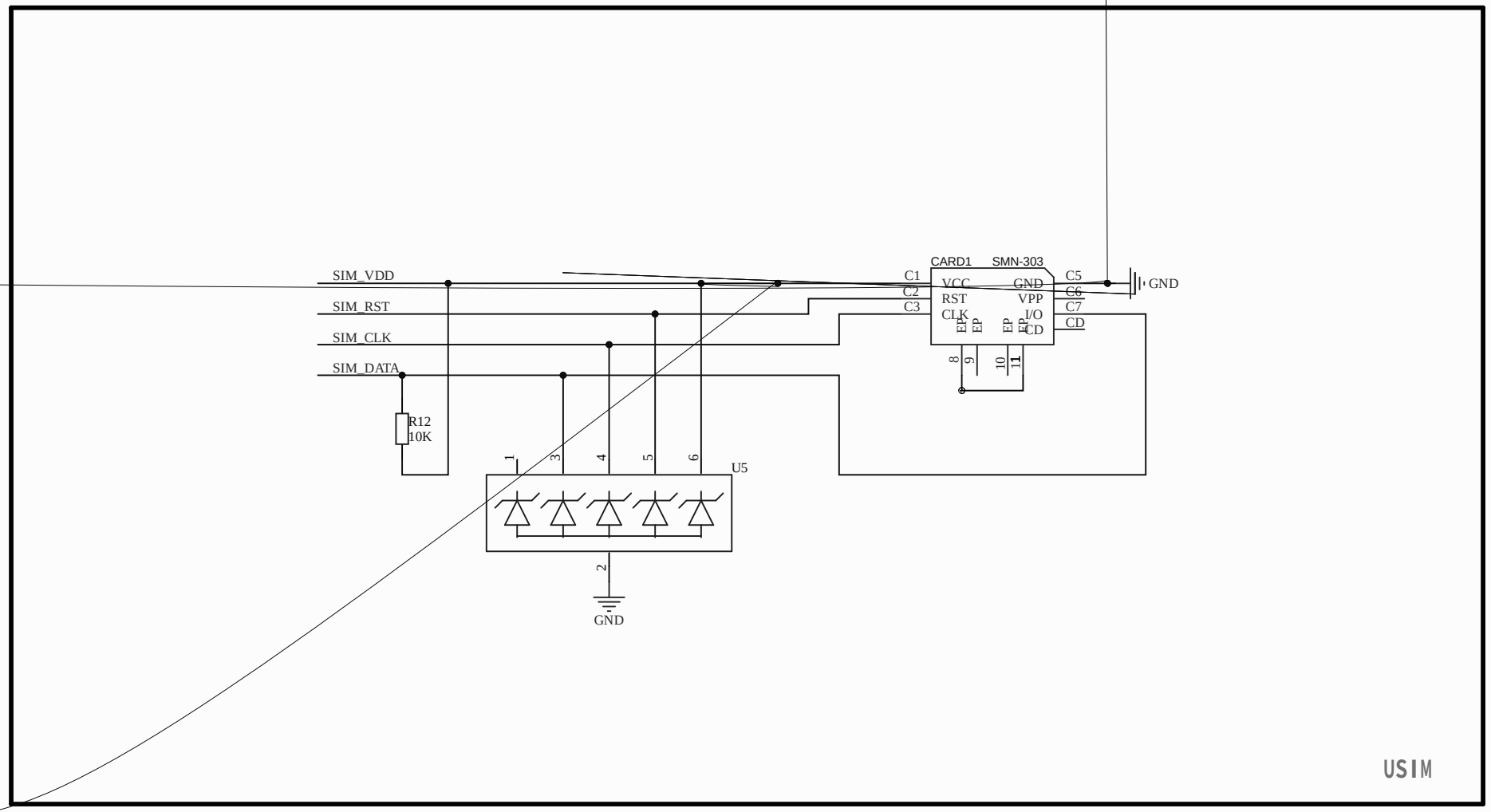


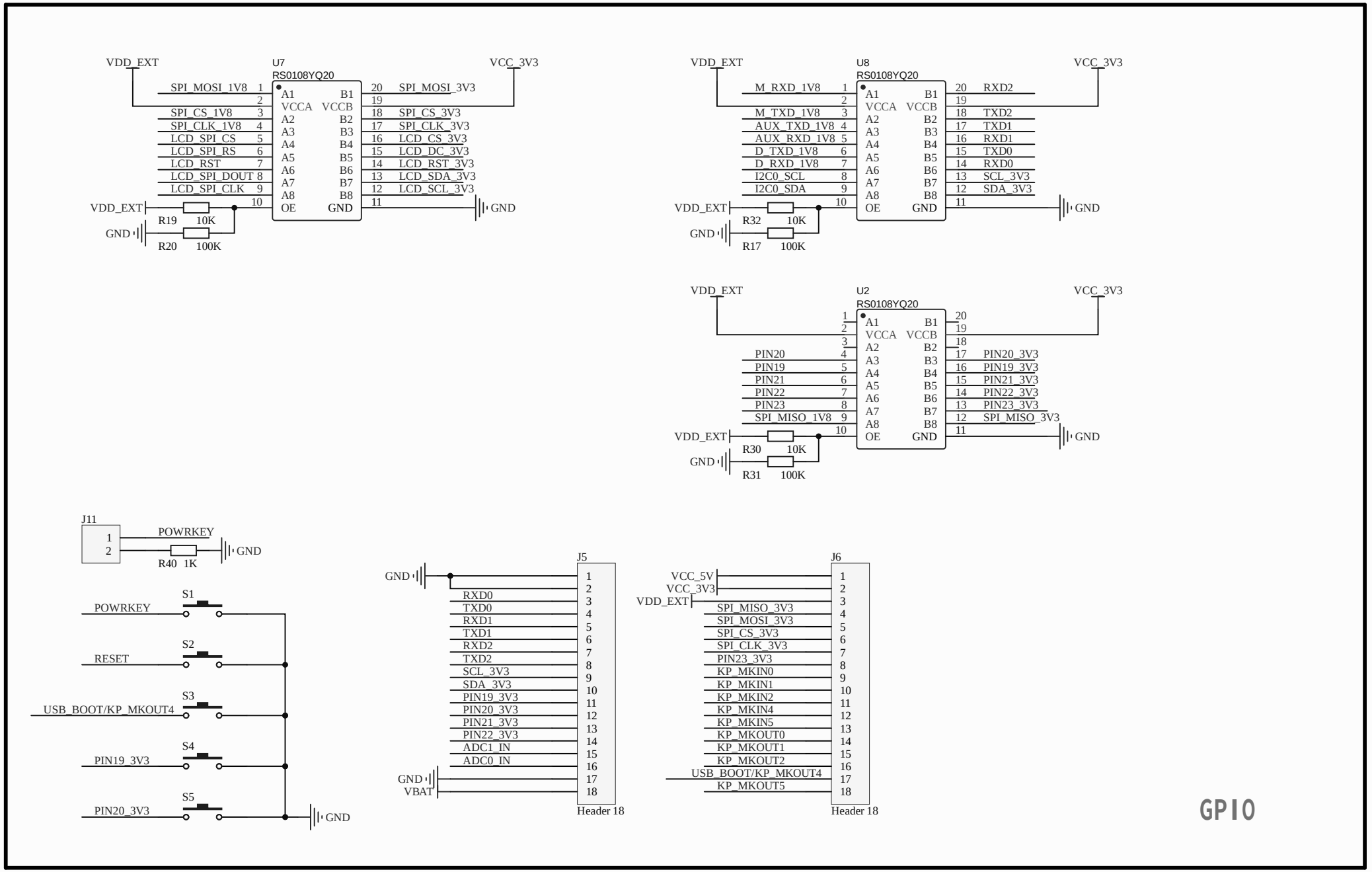
Title		
Size A4	Number	Revision
Date: 3-31-2023		Sheet of
File: G:\ \..\4.SIM-CARD.SchDoc		Drawn By:

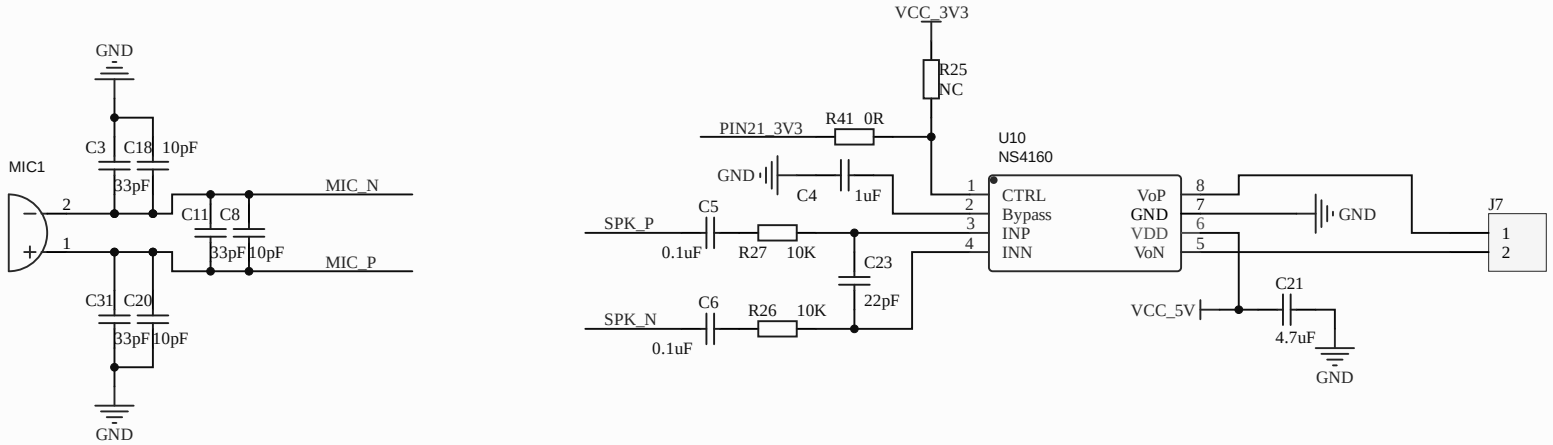


Title		
Size A4	Number	Revision
Date: 3-31-2023		Sheet of
File: G:\ \..\7.LCM.SchDoc		Drawn By:


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

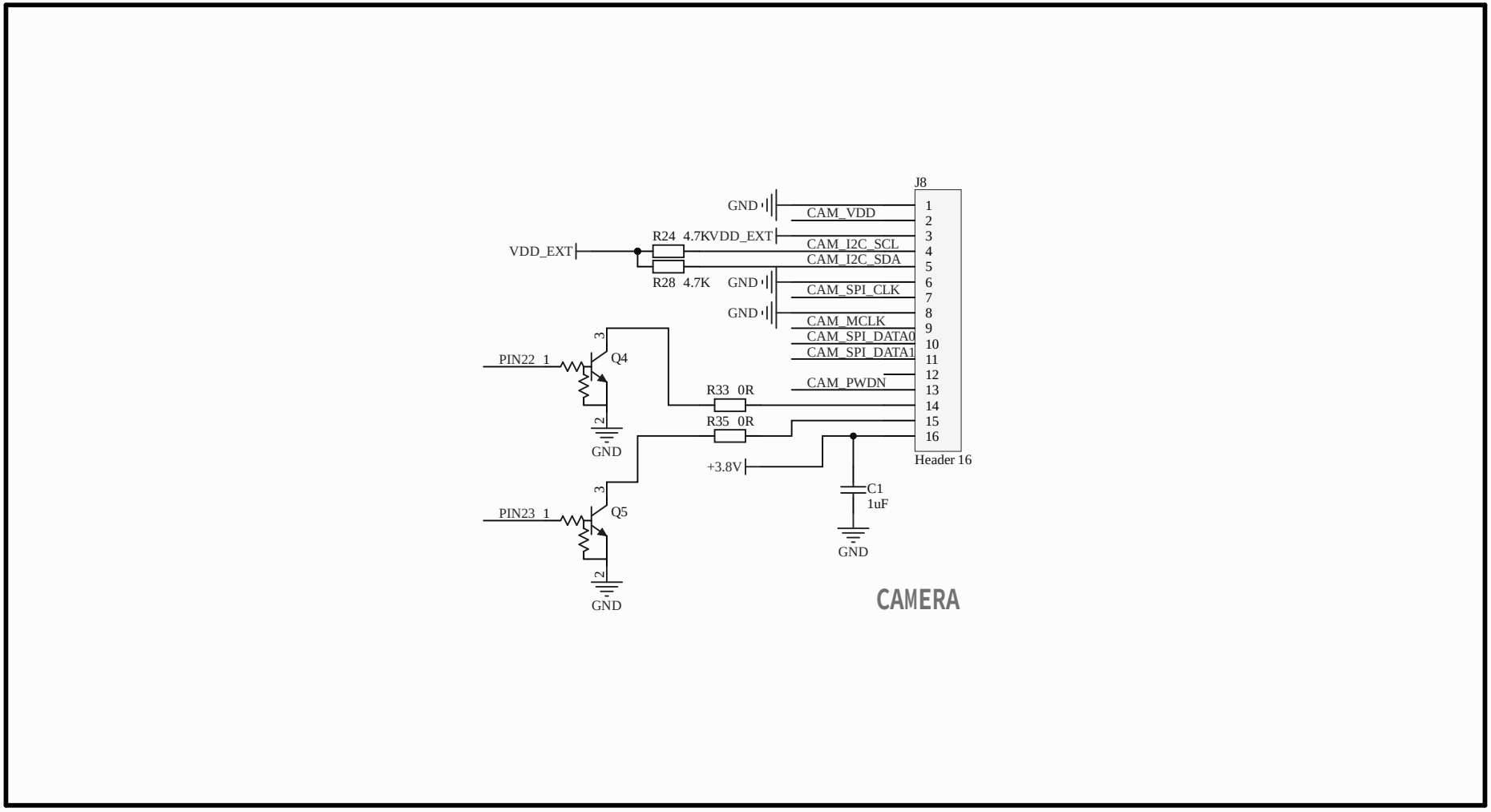

SIM_VDD
SIM_RST
SIM_CLK
SIM_DATA
R12
10K
U5
GND
CARD1 SMN-303
C1
C2
C3
VCC
RST
CLK
GND
VPP
I/O
CD
C5
C6
C7
CD
GND
USIM

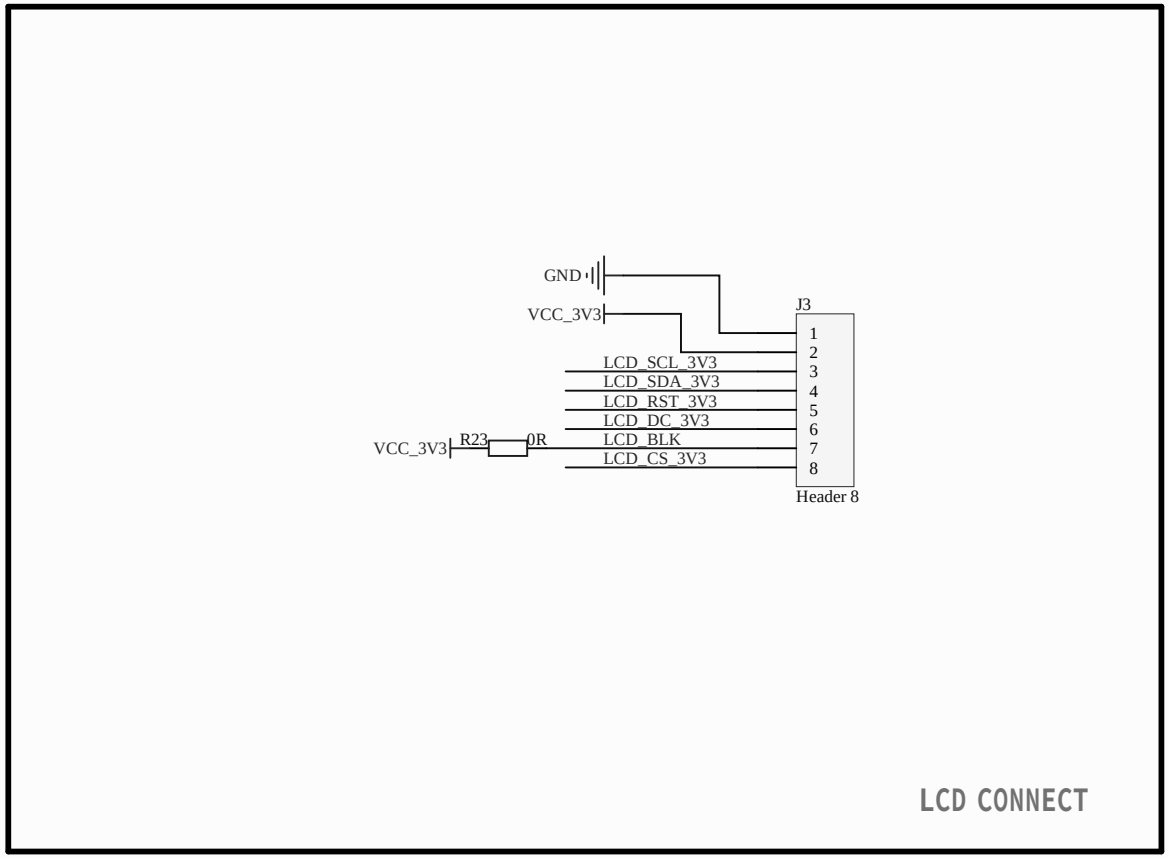

VDD_EXT
U7
RS0108YQ20
VCC_3V3
SPI_MOSI_1V8
SPI_CS_1V8
SPI_CLK_1V8
LCD_SPI_CS
LCD_SPI_RS
LCD_RST
LCD_SPI_DOUT
LCD_SPI_CLK
A1
VCCA
A2
A3
A4
A5
A6
A7
A8
OE
B1
VCCB
B2
B3
B4
B5
B6
B7
B8
GND
SPI_MOSI_3V3
SPI_CS_3V3
SPI_CLK_3V3
LCD_CS_3V3
LCD_DC_3V3
LCD_RST_3V3
LCD_SDA_3V3
LCD_SCL_3V3
R19 10K
R20 100K
U8
M_RXD_1V8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

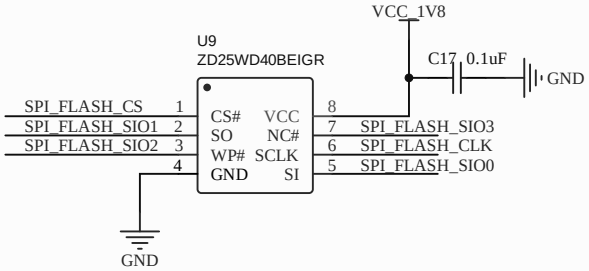

GND
C3
C18
10pF
33pF
MIC1
2
1
C11
C8
33pF
10pF
MIC_N
MIC_P
C31
C20
33pF
10pF
GND
VCC_3V3
R25
NC
PIN21_3V3
R41
0R
U10
NS4160
GND
C4
1uF
SPK_P
C5
0.1uF
R27
10K
C23
22pF
SPK_N
C6
0.1uF
R26
10K
CTRL
Bypass
INP
INN
VoP
GND
VDD
VoN
GND
J7
1
2
VCC_5V
C21
4.7uF
GND

AUDIO

AUDIO


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