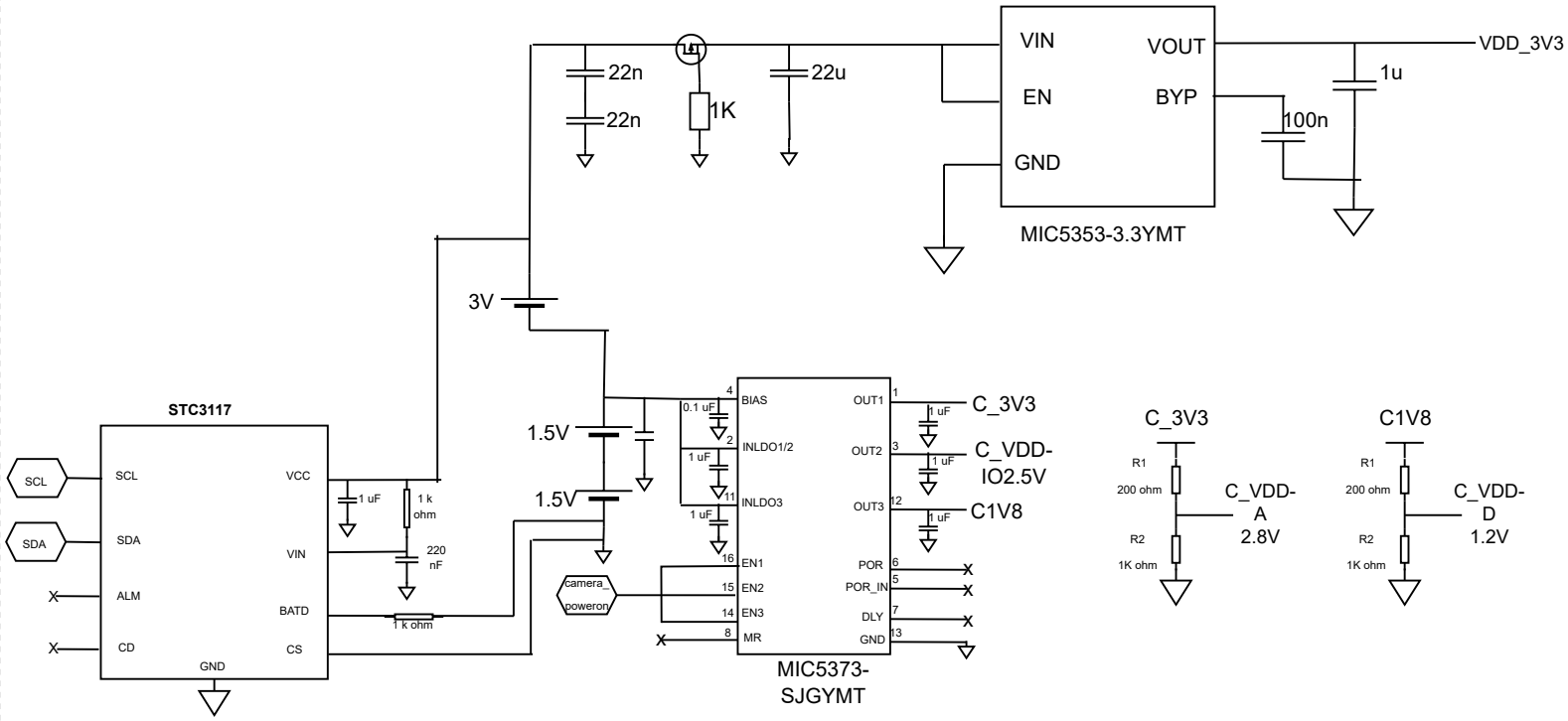
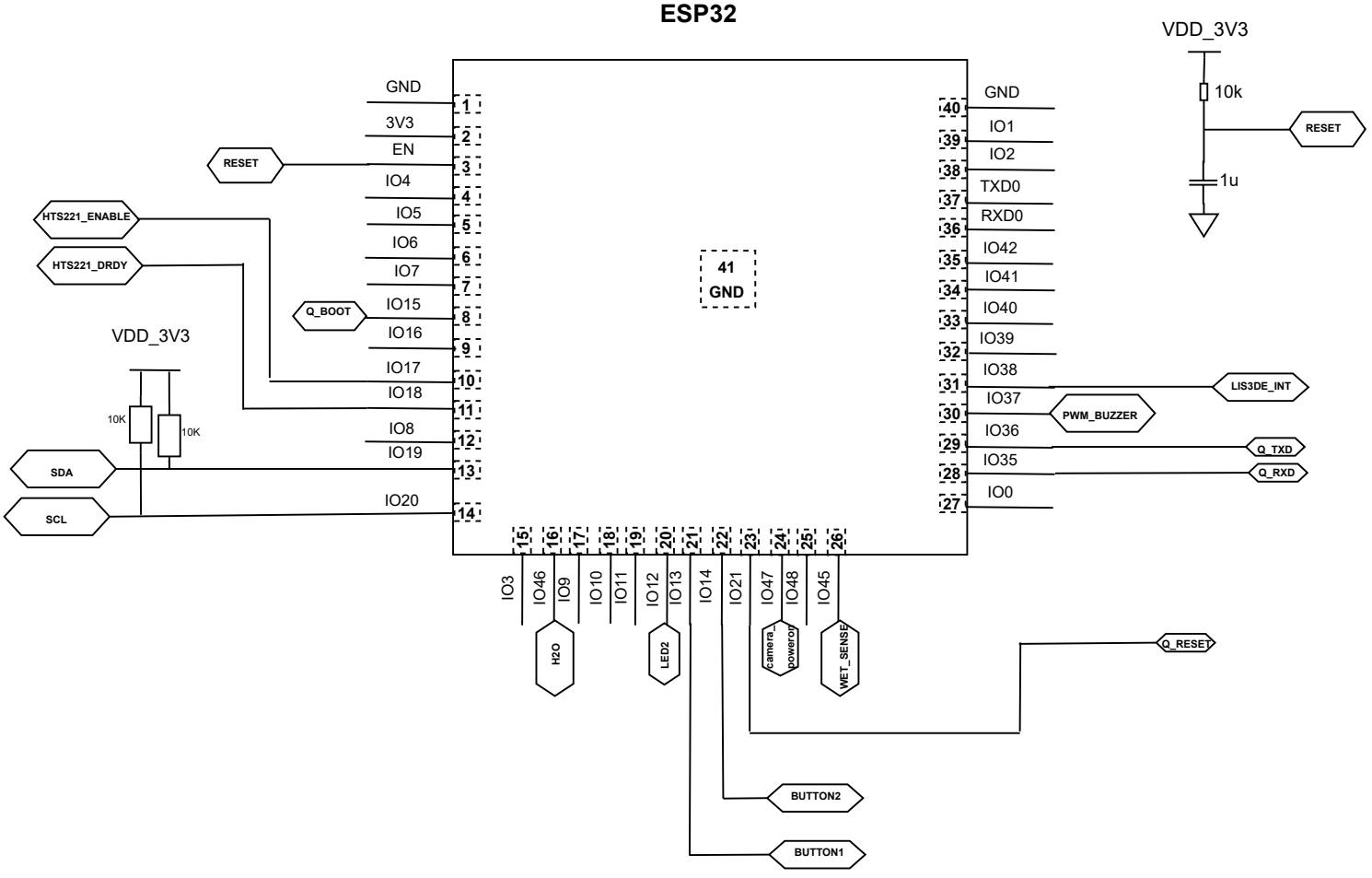
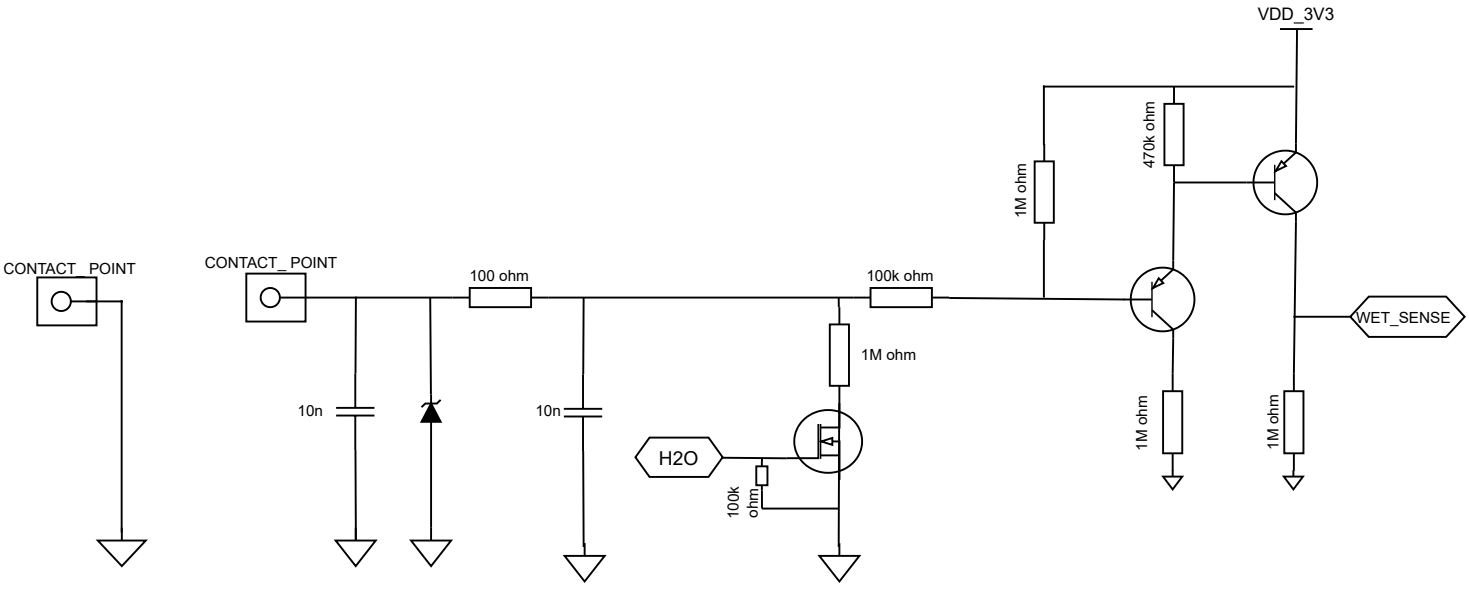
Power supply

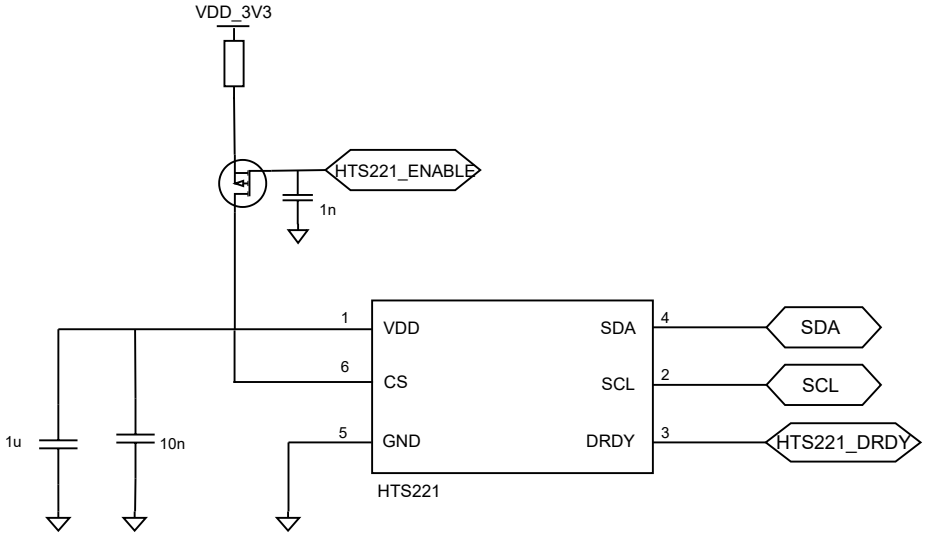


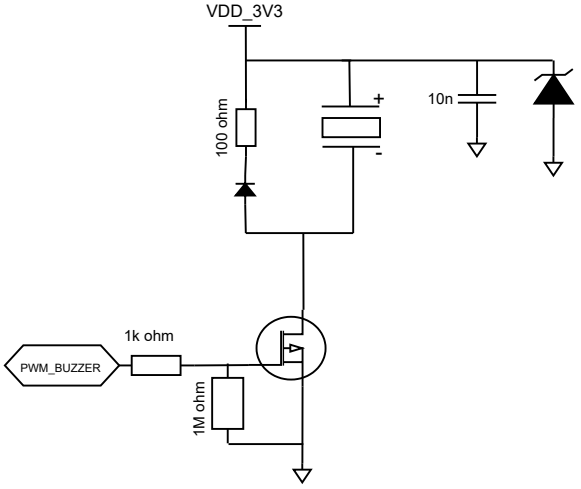
ESP32

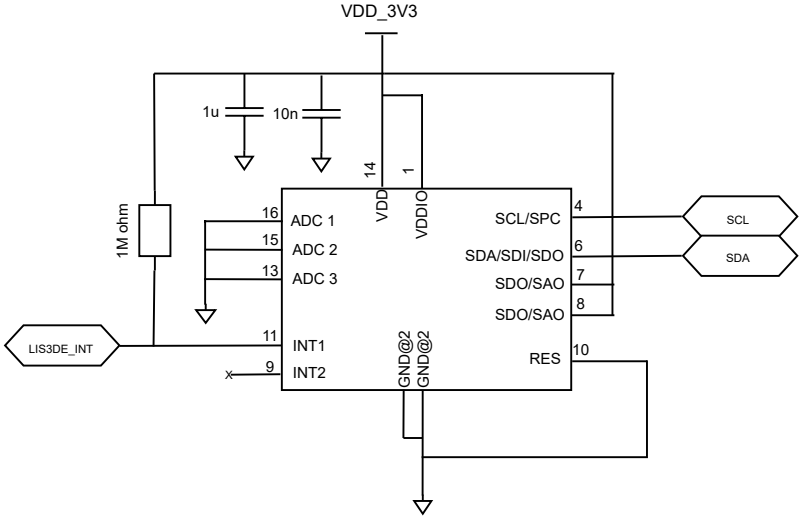


Sensors

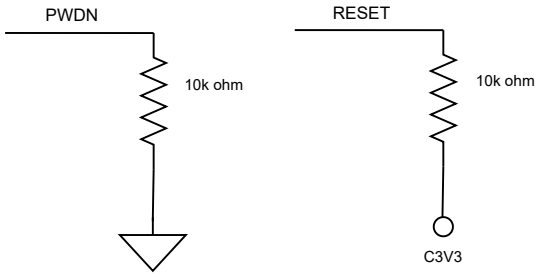

VDD_3V3
CONTACT_POINT
CONTACT_POINT
100 ohm
100k ohm
470k ohm
1M ohm
10n
10n
1M ohm
H2O
100k ohm
1M ohm
1M ohm
WET_SENSE

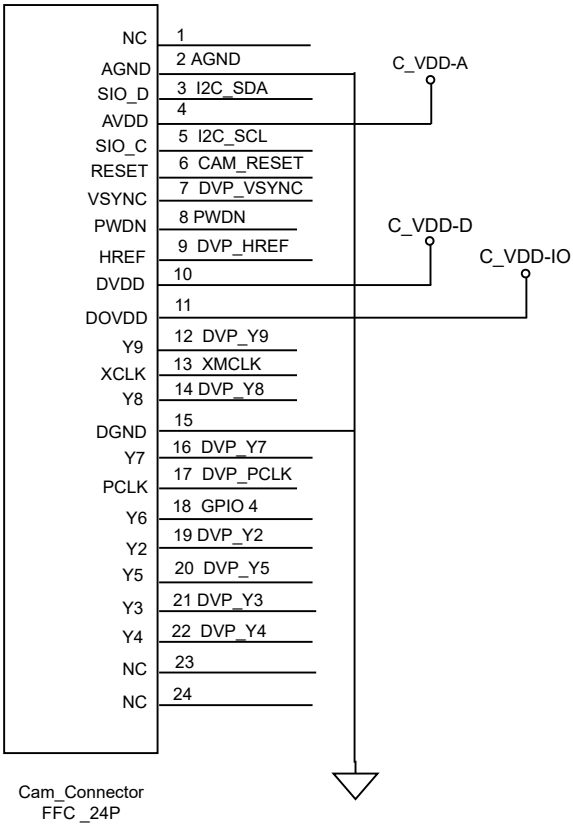

VDD_3V3
HTS221_ENABLE
1n
1
VDD
6
CS
5
GND
SDA
4
SCL
2
DRDY
3
SDA
SCL
HTS221_DRDY
1u
10n
HTS221

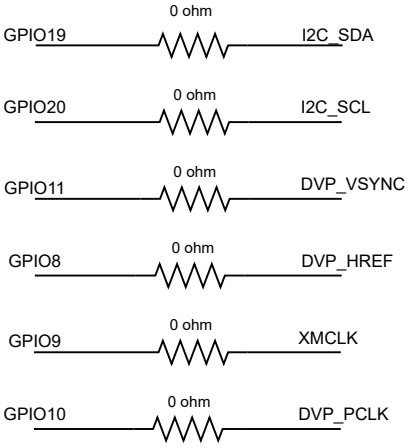

VDD_3V3
100 ohm
10n
1k ohm
PWM_BUZZER
1M ohm

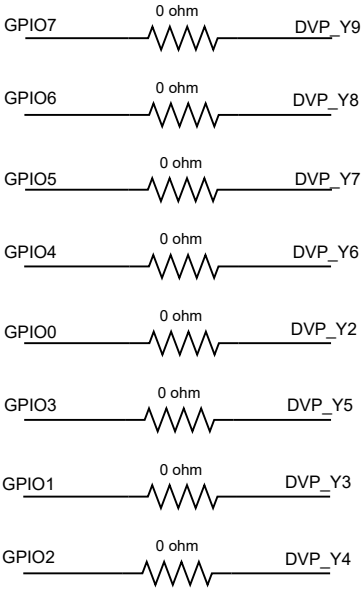

VDD_3V3
1u
10n
14
VDD
1
VDDIO
1M ohm
16
ADC 1
15
ADC 2
13
ADC 3
SCL/SPC
4
SDA/SDI/SDO
6
SDO/SAO
7
SDO/SAO
8
SCL
SDA
LIS3DE_INT
11
INT1
9
INT2
GND@2
GND@2
RES
10

Camera

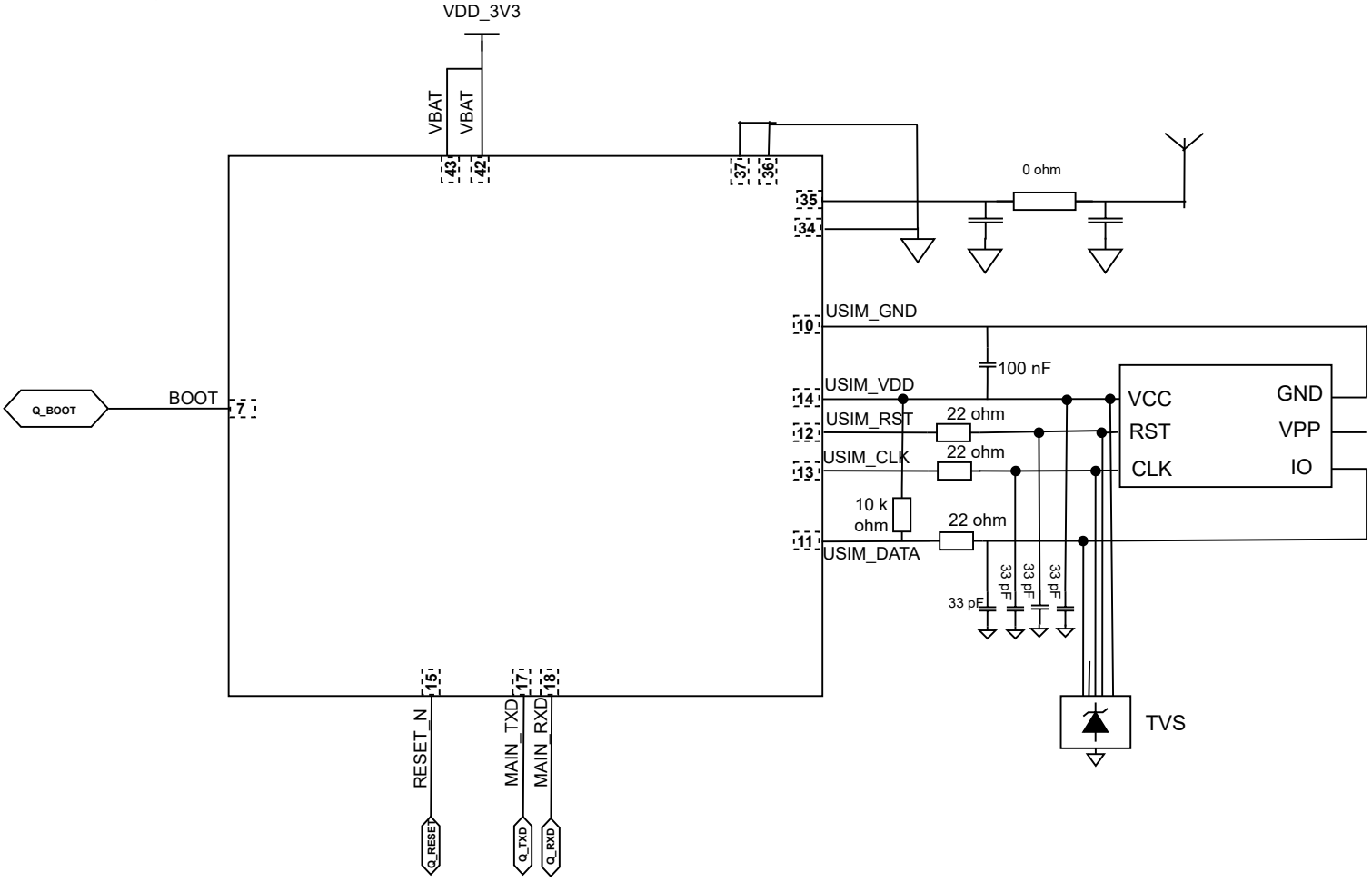

PWDN
10k ohm
RESET
10k ohm
C3V3

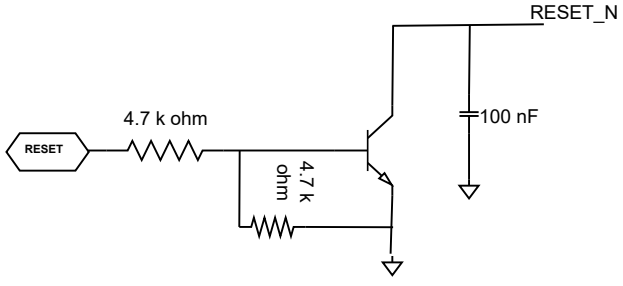

NC 1
AGND 2 AGND
SIO_D 3 I2C_SDA
AVDD 4
SIO_C 5 I2C_SCL
RESET 6 CAM_RESET
VSYNC 7 DVP_VSYNC
PWDN 8 PWDN
HREF 9 DVP_HREF
DVDD 10
DOVDD 11
Y9 12 DVP_Y9
XCLK 13 XMCLK
Y8 14 DVP_Y8
DGND 15
Y7 16 DVP_Y7
PCLK 17 DVP_PCLK
Y6 18 GPIO 4
Y2 19 DVP_Y2
Y5 20 DVP_Y5
Y3 21 DVP_Y3
Y4 22 DVP_Y4
NC 23
NC 24
C_VDD-A
C_VDD-D
C_VDD-IO
Cam_Connector
FFC _24P

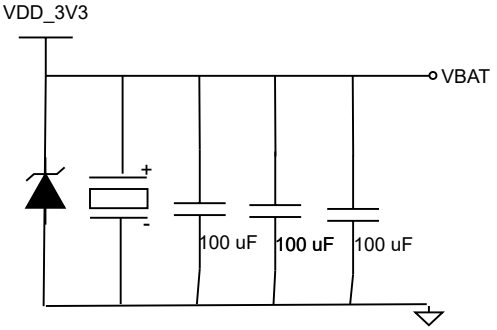

GPIO19 0 ohm I2C_SDA
GPIO20 0 ohm I2C_SCL
GPIO11 0 ohm DVP_VSYNC
GPIO8 0 ohm DVP_HREF
GPIO9 0 ohm XMCLK
GPIO10 0 ohm DVP_PCLK


GPIO7 0 ohm DVP_Y9
GPIO6 0 ohm DVP_Y8
GPIO5 0 ohm DVP_Y7
GPIO4 0 ohm DVP_Y6
GPIO0 0 ohm DVP_Y2
GPIO3 0 ohm DVP_Y5
GPIO1 0 ohm DVP_Y3
GPIO2 0 ohm DVP_Y4

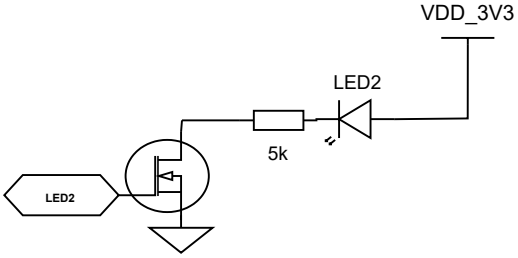
Quectel

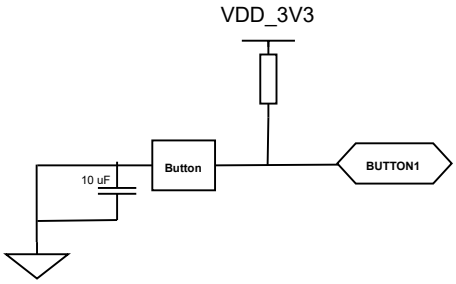

VDD_3V3
VBAT
VBAT
43
42
37
36
35
34
0 ohm
USIM_GND
10
100 nF
USIM_VDD
14
USIM_RST
12
22 ohm
USIM_CLK
13
22 ohm
10 k ohm
22 ohm
11
USIM_DATA
33 pF
33 pF
33 pF
33 pF
VCC
RST
CLK
GND
VPP
IO
TVS
Q_BOOT
BOOT
7
15
17
18
RESET_N
MAIN_TXD
MAIN_RXD
Q_RESET
Q_TXD
Q_RXD

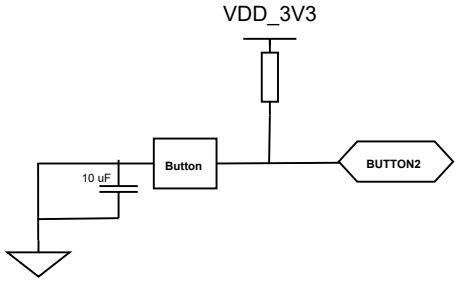

RESET_N
4.7 k ohm
RESET
4.7 k ohm
100 nF


VDD_3V3
VBAT
+
-
100 uF
100 uF
100 uF

LED, Button


VDD_3V3
LED2
5k
LED2


VDD_3V3
10 uF
Button
BUTTON1


VDD_3V3
10 uF
Button
BUTTON2