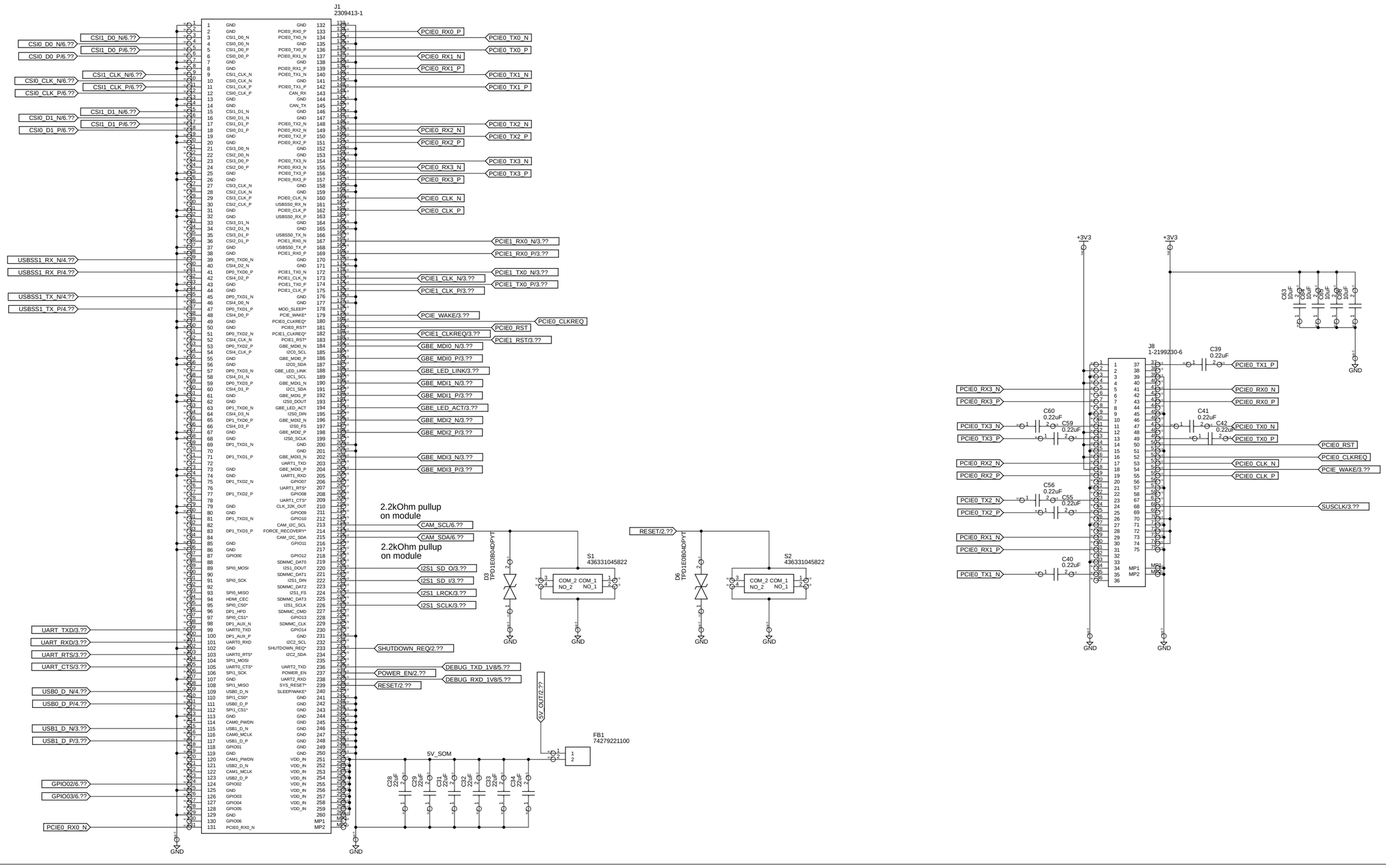
# SOM & NVME SSD


J1
2309413-1
CSI1_D0_N/6.??
CSI1_D0_P/6.??
CSI0_D0_N/6.??
CSI0_D0_P/6.??
CSI1_CLK_N/6.??
CSI1_CLK_P/6.??
CSI0_CLK_N/6.??
CSI0_CLK_P/6.??
CSI1_D1_N/6.??
CSI1_D1_P/6.??
CSI0_D1_N/6.??
CSI0_D1_P/6.??
USBSS1_RX_N/4.??
USBSS1_RX_P/4.??
USBSS1_TX_N/4.??
USBSS1_TX_P/4.??
UART_TXD/3.??
UART_RXD/3.??
UART_RTS/3.??
UART_CTS/3.??
USB0_D_N/4.??
USB0_D_P/4.??
USB1_D_N/3.??
USB1_D_P/3.??
GPIO02/6.??
GPIO03/6.??
PCIE0_RX0_N
PCIE0_RX0_P
PCIE0_TX0_N
PCIE0_TX0_P
PCIE0_RX1_N
PCIE0_RX1_P
PCIE0_TX1_N
PCIE0_TX1_P
PCIE0_TX2_N
PCIE0_TX2_P
PCIE0_RX2_N
PCIE0_RX2_P
PCIE0_TX3_N
PCIE0_TX3_P
PCIE0_CLK_N
PCIE0_CLK_P
PCIE1_RX0_N/3.??
PCIE1_RX0_P/3.??
PCIE1_TX0_N/3.??
PCIE1_TX0_P/3.??
PCIE1_CLK_N/3.??
PCIE1_CLK_P/3.??
PCIE_WAKE/3.??
PCIE0_CLKREQ
PCIE0_RST
PCIE1_CLKREQ/3.??
PCIE1_RST/3.??
GBE_MDI0_N/3.??
GBE_MDI0_P/3.??
GBE_LED_LINK/3.??
GBE_MDI1_N/3.??
GBE_MDI1_P/3.??
GBE_LED_ACT/3.??
GBE_MDI2_N/3.??
GBE_MDI2_P/3.??
GBE_MDI3_N/3.??
GBE_MDI3_P/3.??
2.2kOhm pullup
on module
CAM_SCL/6.??
CAM_SDA/6.??
2.2kOhm pullup
on module
I2S1_SD_O/3.??
I2S1_SD_I/3.??
I2S1_LRCK/3.??
I2S1_SCLK/3.??
SHUTDOWN_REQ/2.??
POWER_EN/2.??
RESET/2.??
DEBUG_TXD_1V8/5.??
DEBUG_RXD_1V8/5.??
5V_OUT/2.??
FB1
74279221100
5V_SOM
D3
TPD1E0B04DPYT
S1
436331045822
RESET/2.??
D6
TPD1E0B04DPYT
S2
436331045822
+3V3
+3V3
C63
10uF
C62
10uF
C61
10uF
C60
10uF
C59
10uF
C58
10uF
GND
J8
1-2199230-6
C39
0.22uF
PCIE0_TX1_P
PCIE0_RX3_N
PCIE0_RX3_P
PCIE0_TX3_N
PCIE0_TX3_P
PCIE0_RX2_N
PCIE0_RX2_P
PCIE0_TX2_N
PCIE0_TX2_P
PCIE0_RX1_N
PCIE0_RX1_P
PCIE0_TX1_N
C60
0.22uF
C59
0.22uF
C56
0.22uF
C55
0.22uF
C40
0.22uF
C41
0.22uF
C42
0.22uF
PCIE0_RX0_N
PCIE0_RX0_P
PCIE0_TX0_N
PCIE0_TX0_P
PCIE0_RST
PCIE0_CLKREQ
PCIE0_CLK_N
PCIE0_CLK_P
PCIE_WAKE/3.??
SUSCLK/3.??
C28
22uF
C29
22uF
C31
22uF
C32
22uF
C33
22uF
C34
22uF

# POWER

GRM32ER71H475KA88LCAP_GRM_32E_MUR

EMK107B7105KA-TCAP_UMK107AB7105KA-T_TAY

## DC/DC

TPSM33615FRDNRRDN0011A-MFG
U1
TPSM33615FRDNRRDN0011A-MFG

VIN, VCC, EN, PGOOD, MODE_SYNC, BOOT, SW_2 SW, VOUT, FB, GND

RESET/1.??

+3V3

C18, C19 CGA3E2X7R1H104K080AA, C30, R10 CR0402-FX-2322GLF, R8 10k, R7 10k, LED1 SML-LXR44GC-TR, R1 75R, C20 GRM31CR71A226KE15L, C21 GRM31CR71A226KE15L, Q1 DMN63D8L-13

3V3

5V

J6 XT30PW-M, VCC, D4 DF2S30FS-L3M

5V_STANDBY, R24 10k, IC7 TPSM63606RDLR, 5V_GOOD

VIN1, SW, CBOOT, RBOOT, VLDOIN, AGND_1, VCC, VOUT1, VOUT2, FB, AGND_2, RT, PG, EN/SYNC, NC, VIN2, PGND_1, PGND_2, PGND_3, PGND_4

5V_OUT/1.??

C2 C3225X7R1H106M250AC, C15, C14, R39 CR0402-FX-4022GLF, R31 CRCW0402210K0FKEDC, R30 AC0402FR-0712KL, C6 C3225X7R1H106M250AC

Q6 DMP3018SFK-7, +5V, R16 10k, Q2 DMN63D8L-13

## 5V LDO

IC1
LP2951-50DRGR

VCC, INPUT, FEEDBACK, VTAP, ERROR, OUTPUT, SENSE, SHUTDOWN, GND, EP

C35 06035C105MAT2A, C22 1uF, D2 ESD9X5.0ST5G, 5V_STANDBY, <100 mA @5V

## 1.8V LDO

IC9
TPS7A0518PDBVT

+5V, IN, NC, GND, OUT, EN, +1.8V

RESET/1.??

C37 10uF, C36 1uF, D1 ESD9X5.0ST5G

## ON/ OFF

5V_STANDBY

R13 10k, R14 10k, R28 10k

Q5 DMN63D8L-13, Q4 DMN63D8L-13, Q3 DMN63D8L-13, Q8 DMN63D8L-13

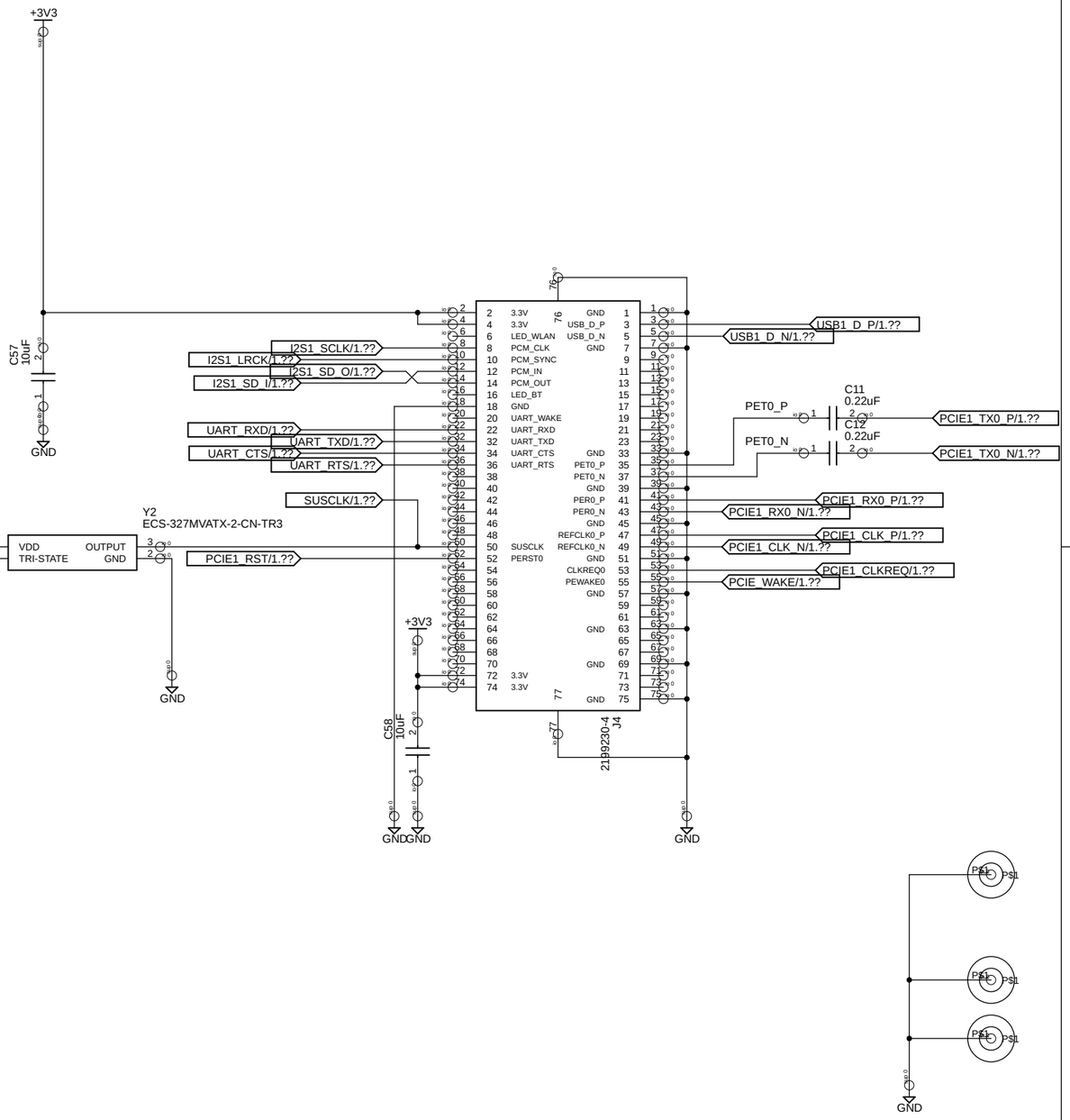
SHUTDOWN_REQ/1.??, R12 10k, POWER GOOD, 5V_GOOD

POWER_EN/1.??

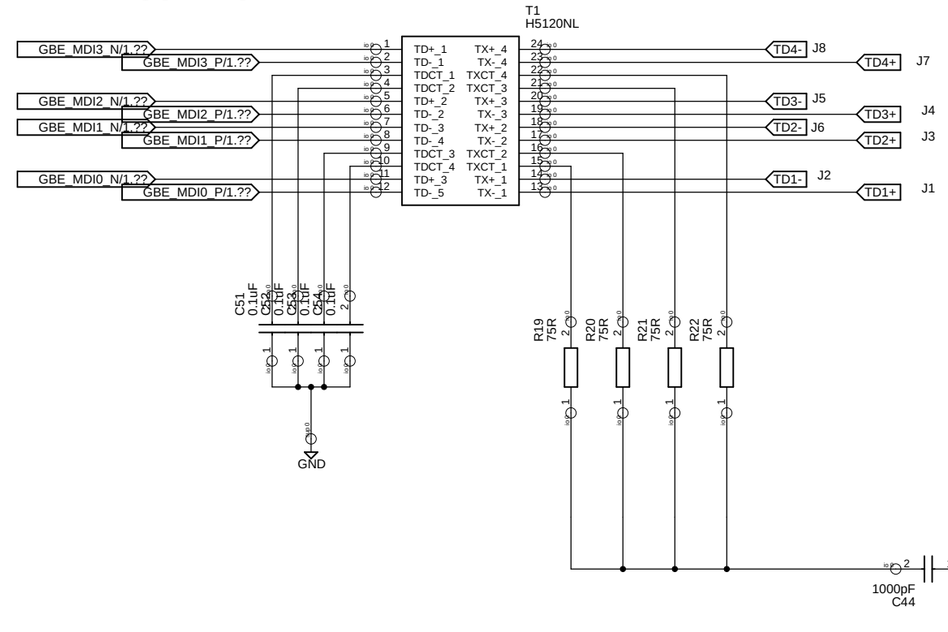
GCM32ER70J476KE19LCAP_GCM32ER70J476KE19L_MUR

GCM32ER70J476KE19LCAP_GCM32ER70J476KE19L_MUR

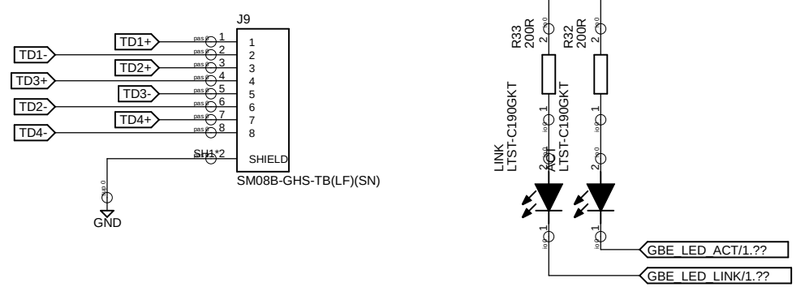
# PCIE & ETHERNET




## ETHERNET ISOLATION

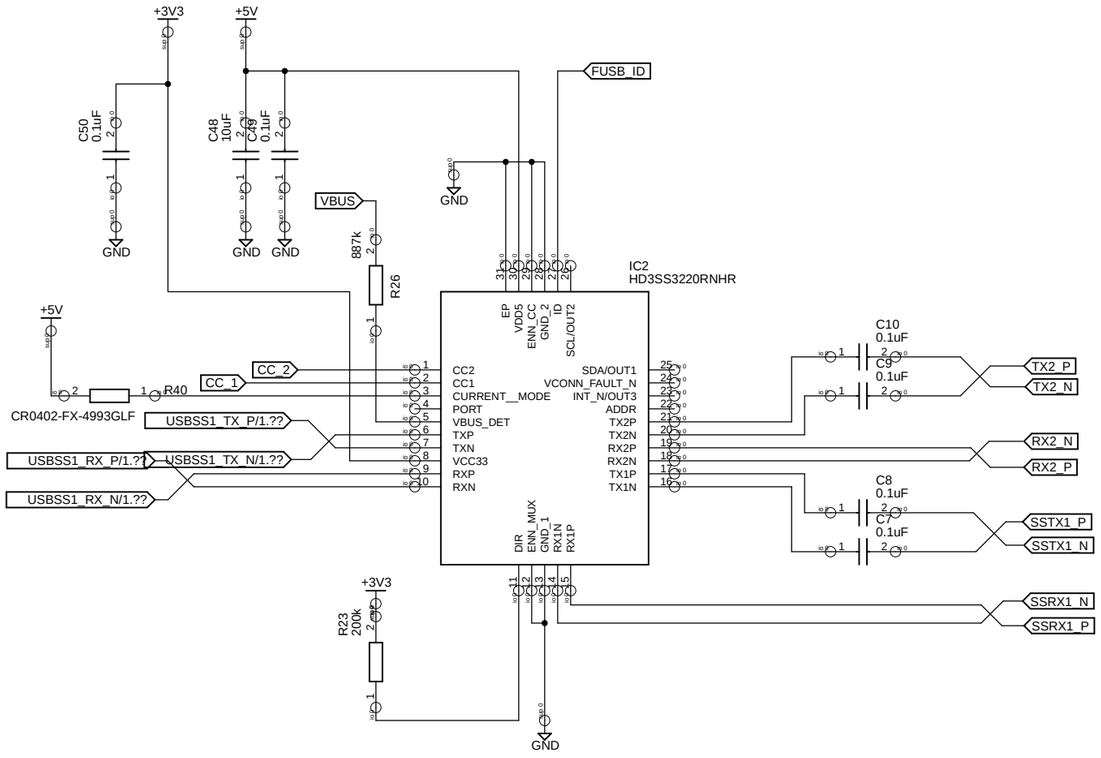



## ETHERNET

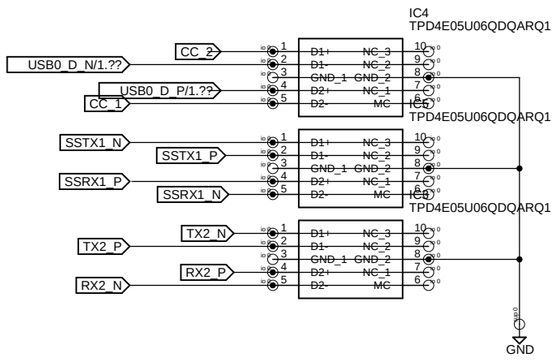


# USB C

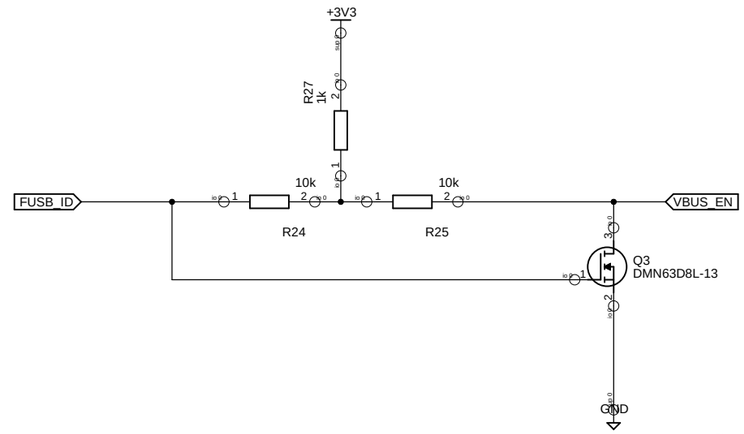
## USB controller




## ESD



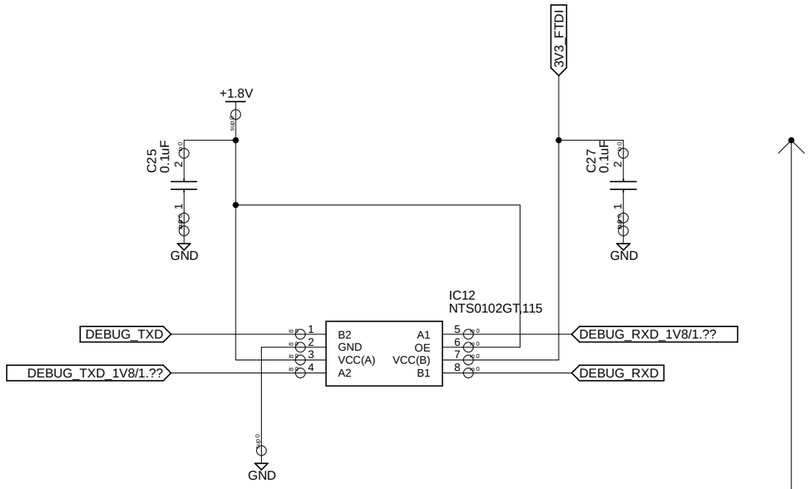

## VBUS EN



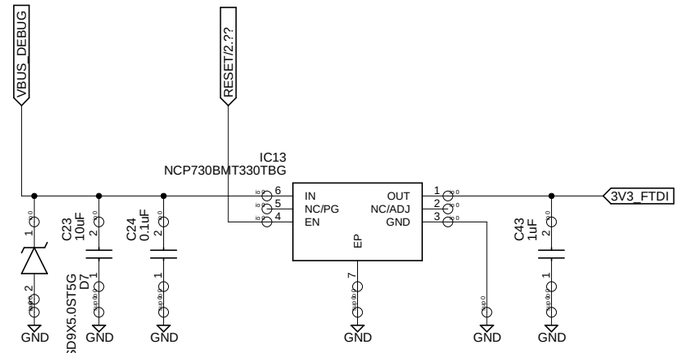

## USB C

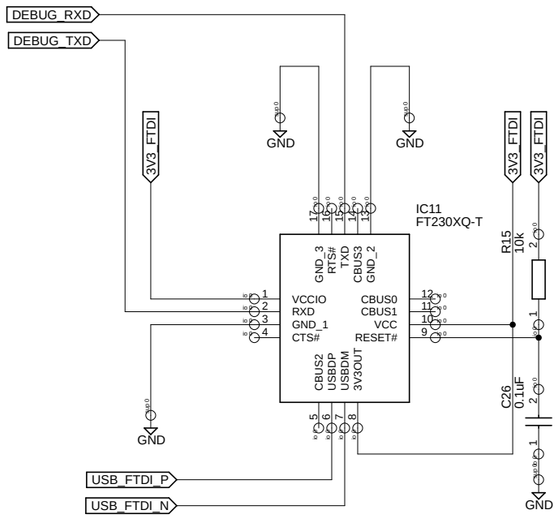
# USB C - DEBUG

## Level shifter

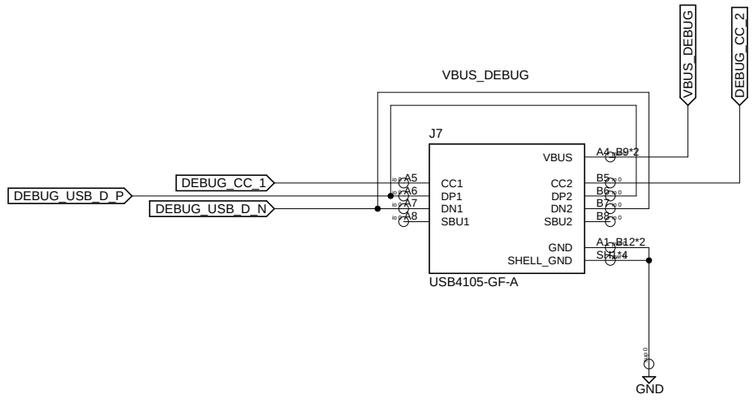



## 3V3 from USB

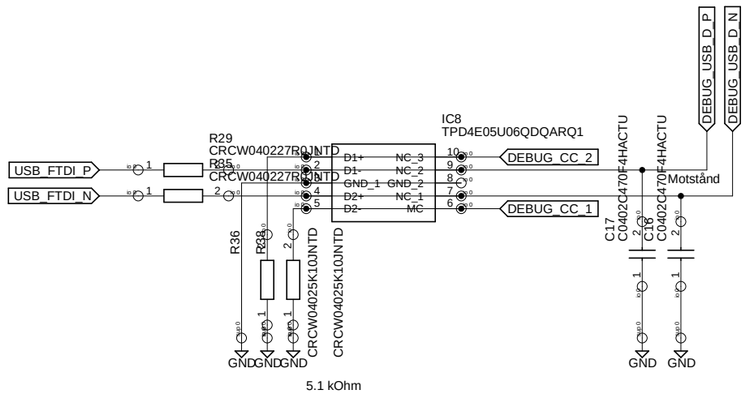



## FTDI
## USB-UART bridge



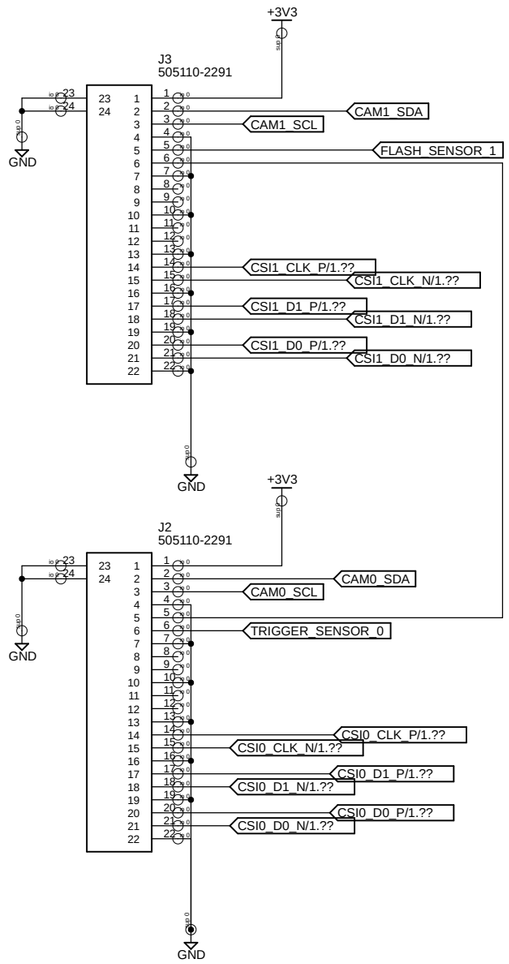

## USBC



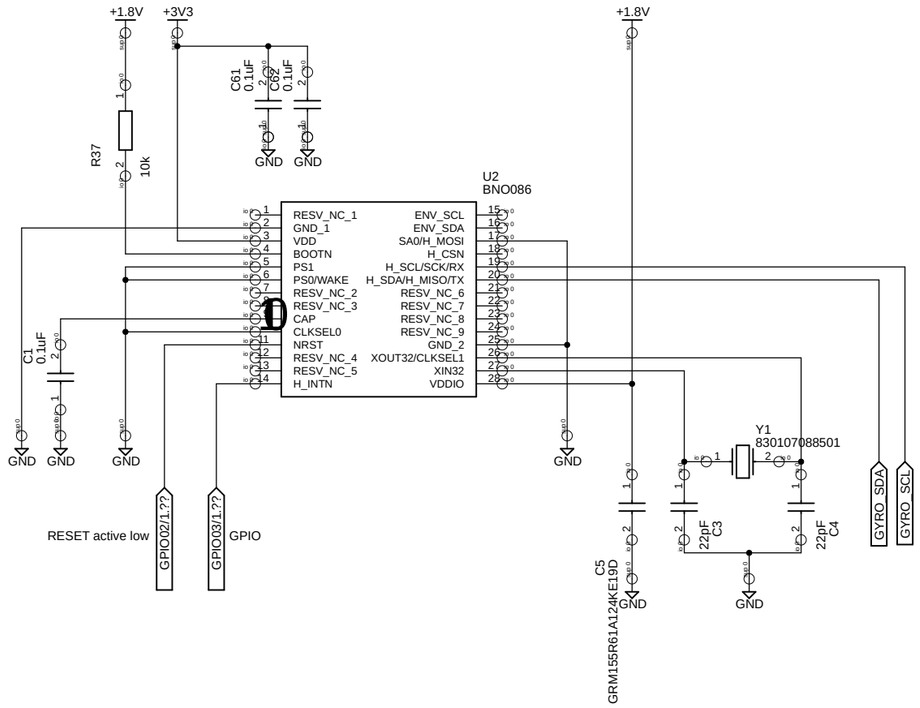

## ESD

# Peripherals & IMU

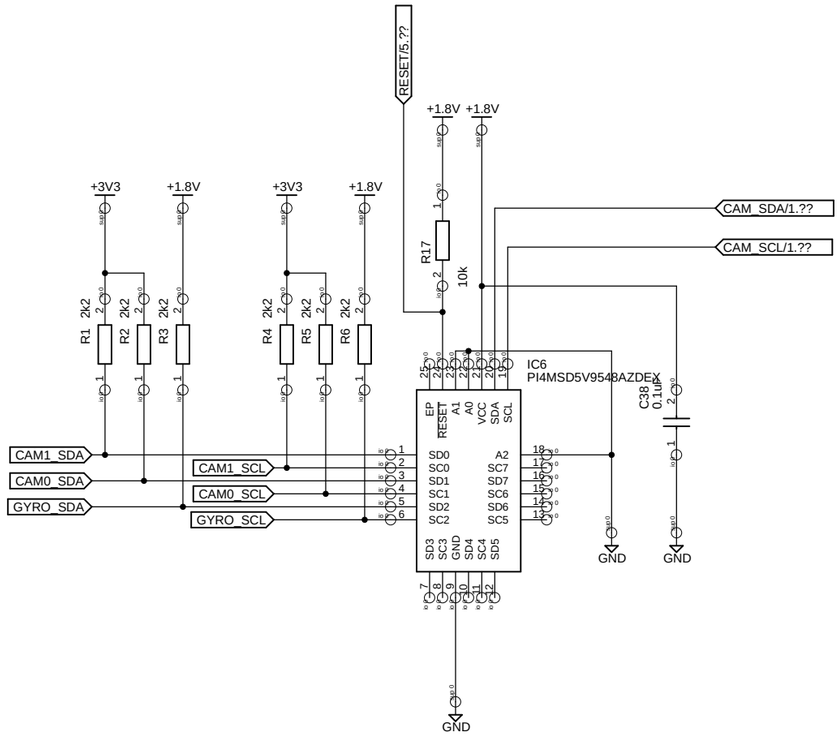
## CAMERA




## GYRO




## I2C MUX




NRND