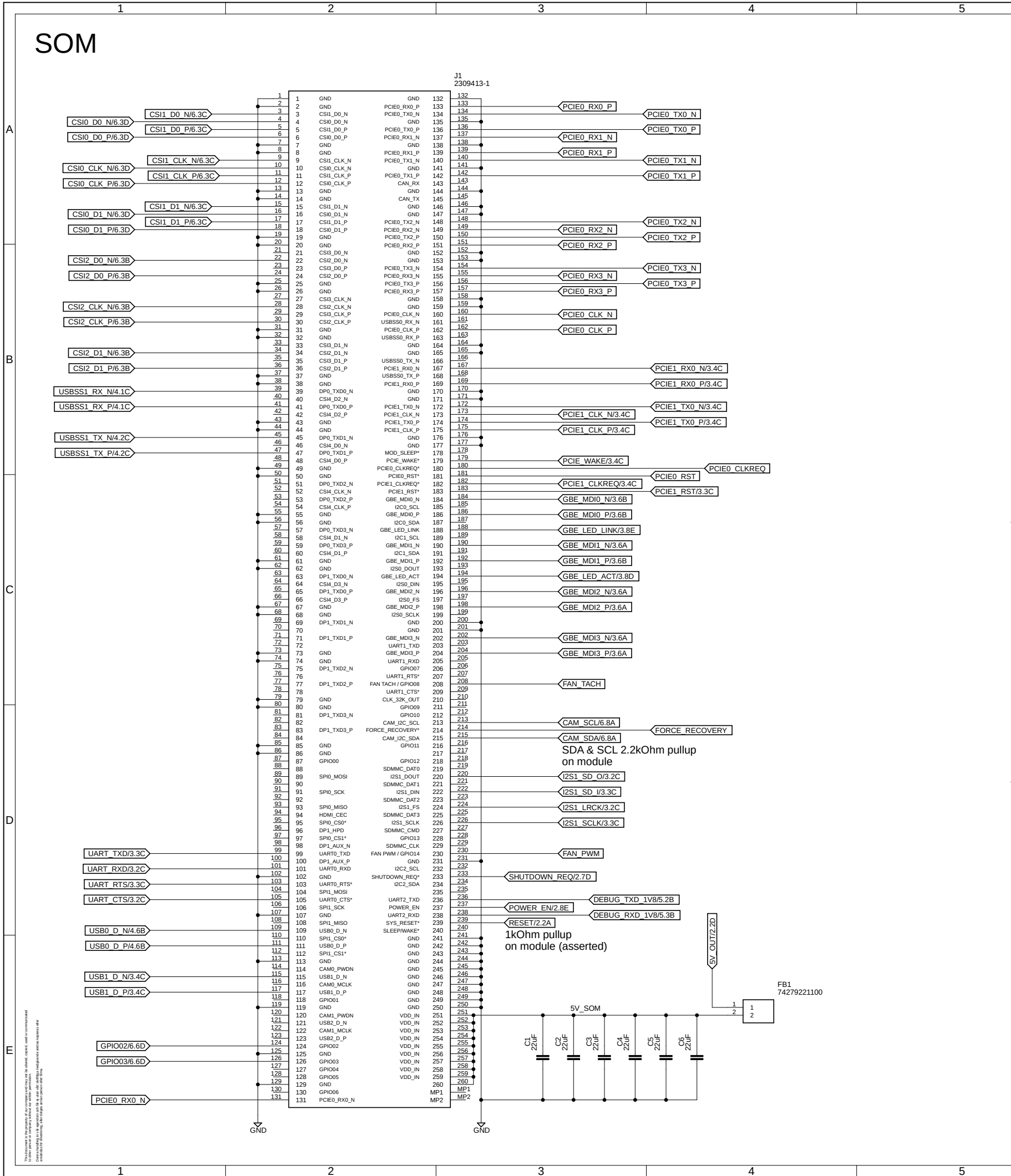
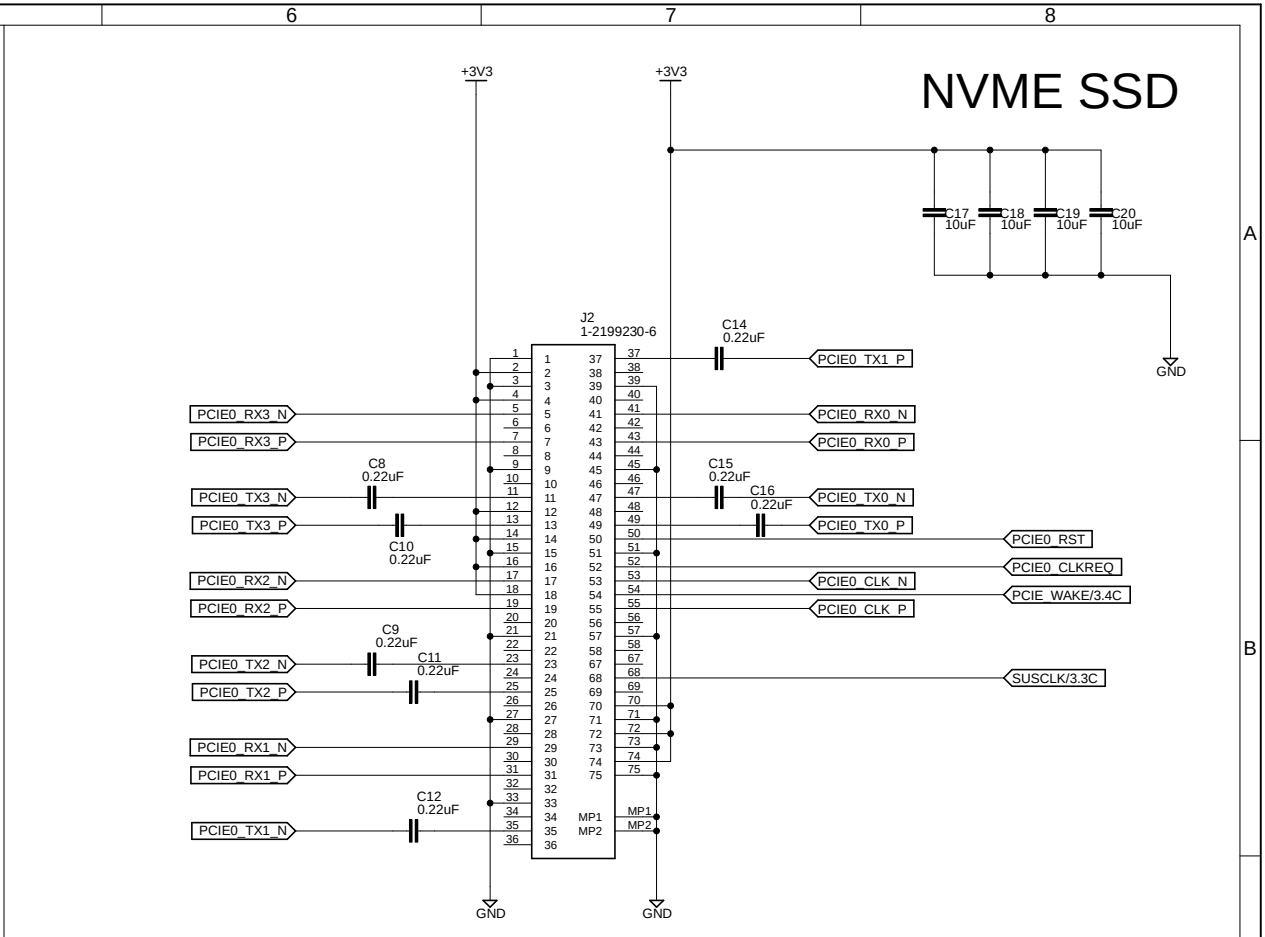


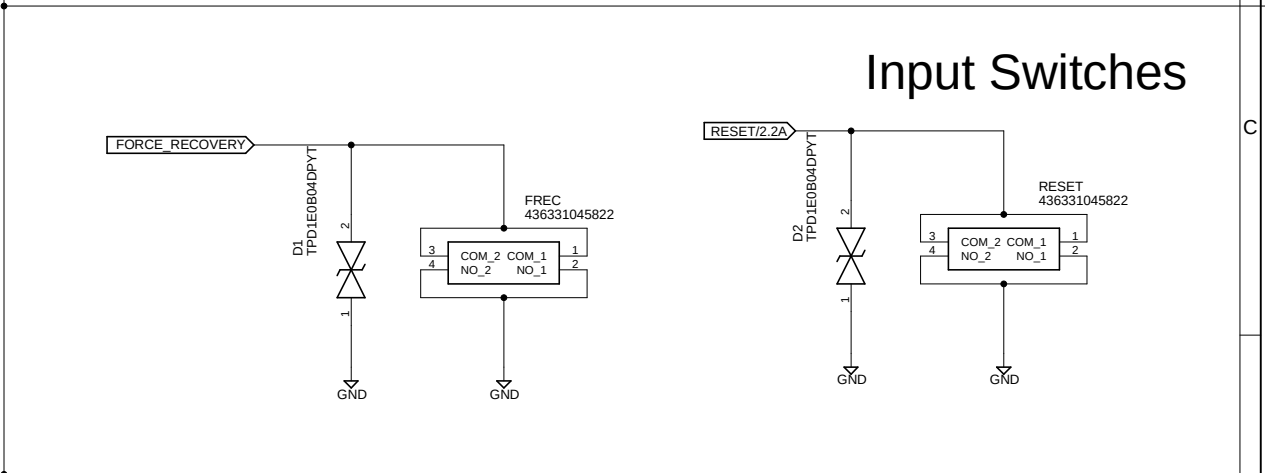
SOM



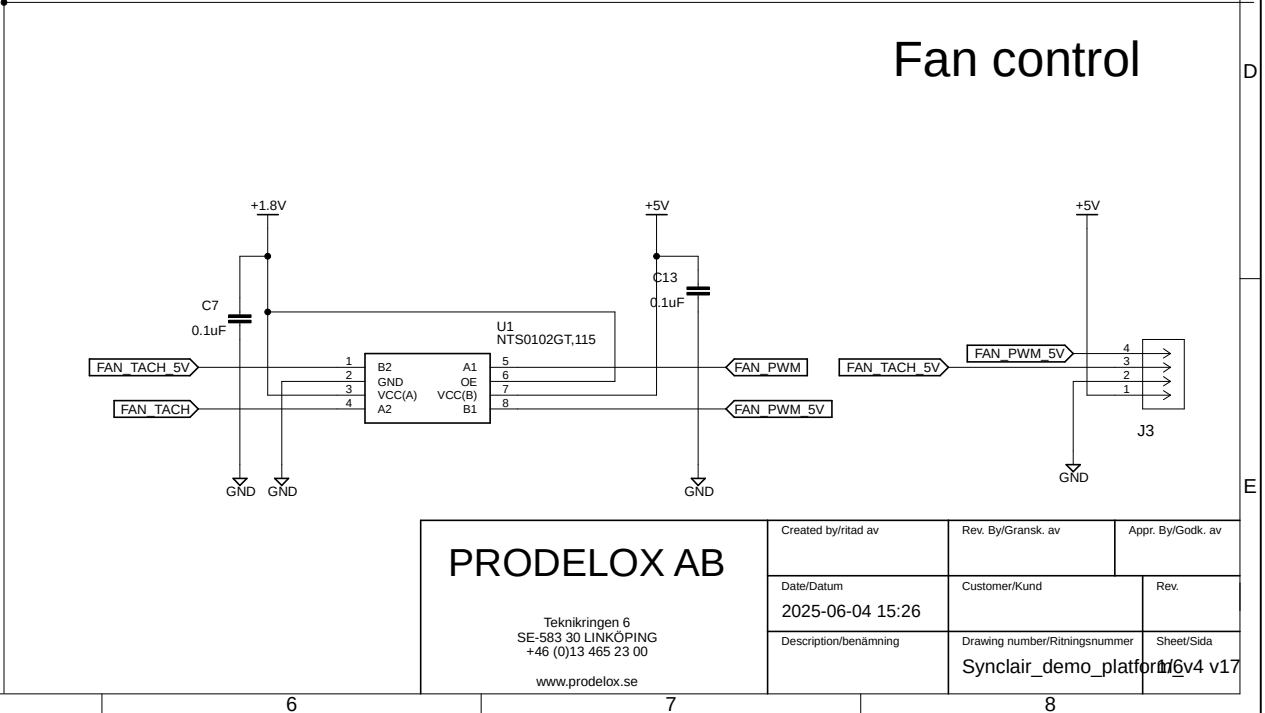
NVME SSD



Input Switches



Fan control

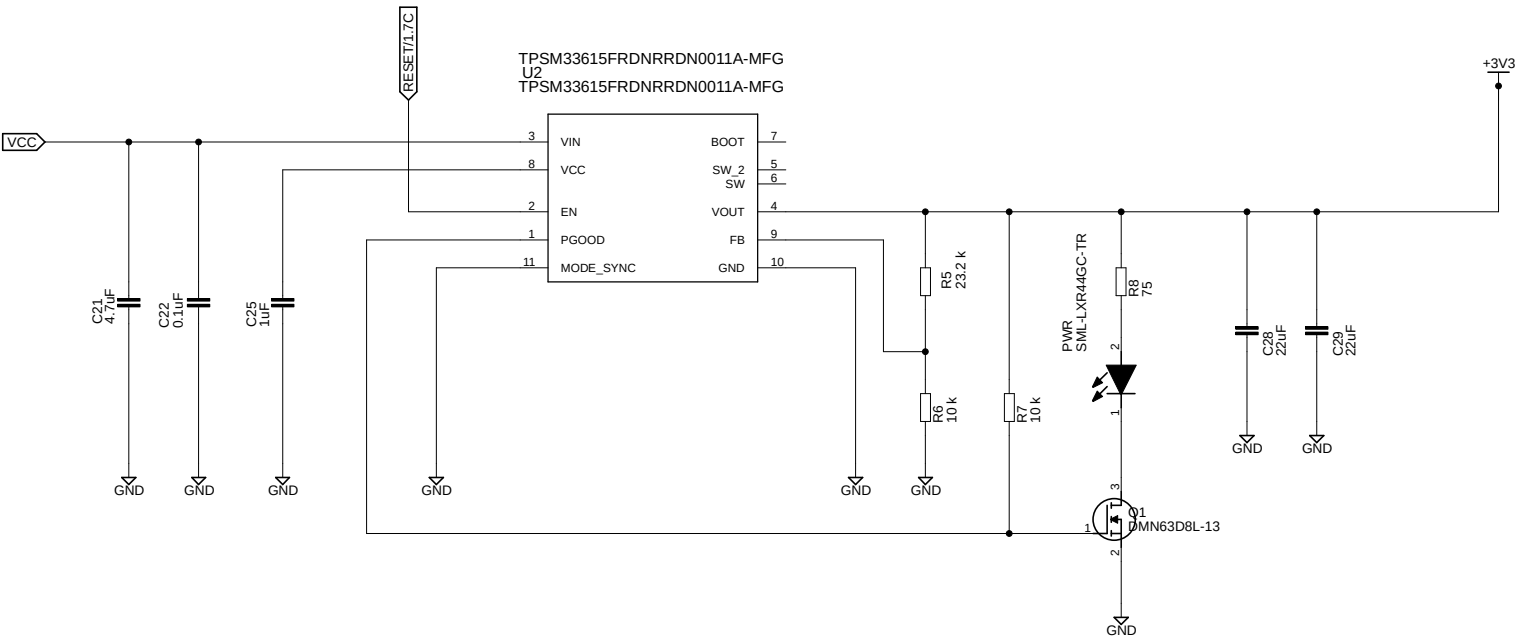


PRODELIX AB

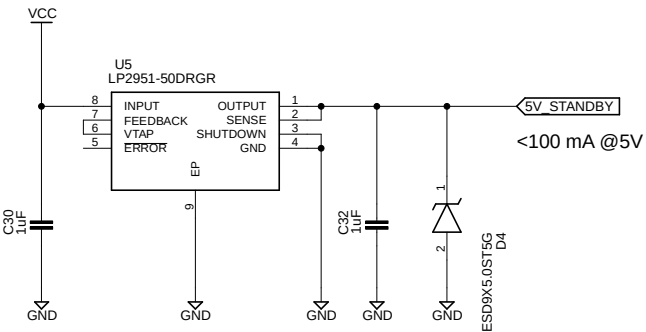
Teknikringen 6
SE-583 30 LINKÖPING
+46 (0)13 465 23 00
www.prodelox.se

Created by/ritad av	Rev. By/Gransk. av	Appr. By/Godk. av
Date/Datum	Customer/Kund	Rev.
2025-06-04 15:26		
Description/benämning	Drawing number/Ritningsnummer	Sheet/Sida
Synclair_demo_plattform	16v4 v17	

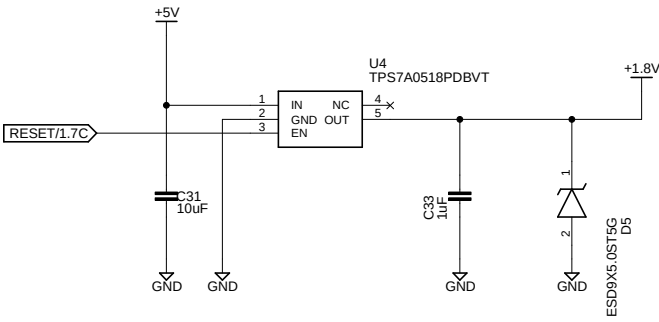
3.3V DCDC
Max 30V in



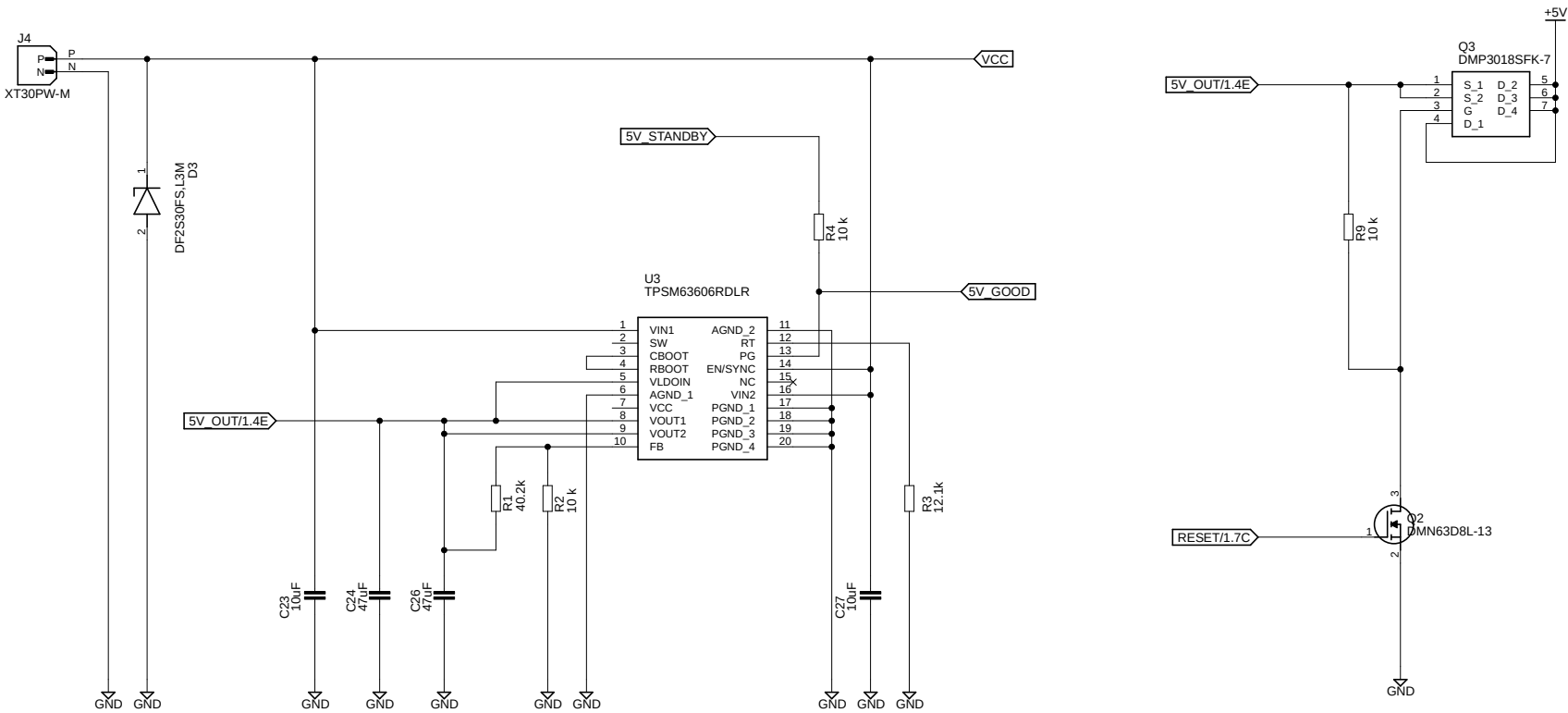
5V LDO



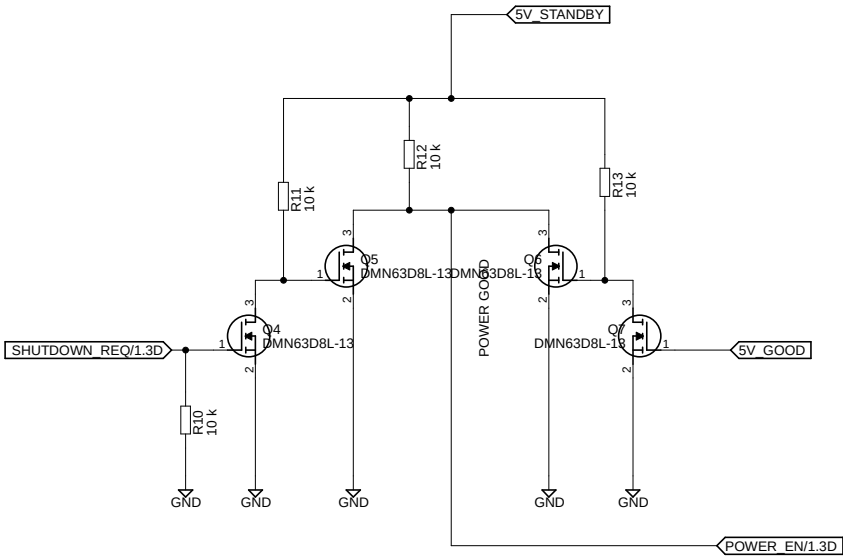
1.8V LDO



5V DC/DC
Max 30V in

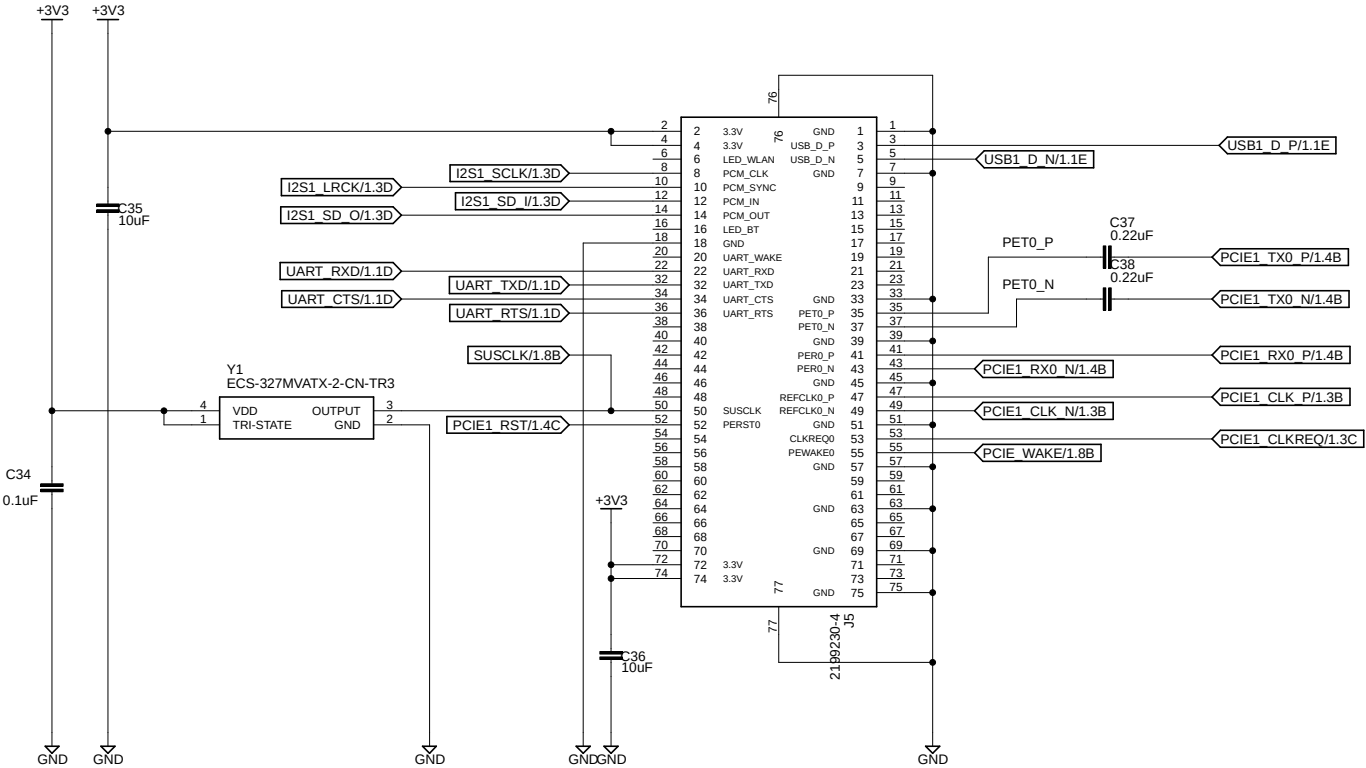


ON/OFF

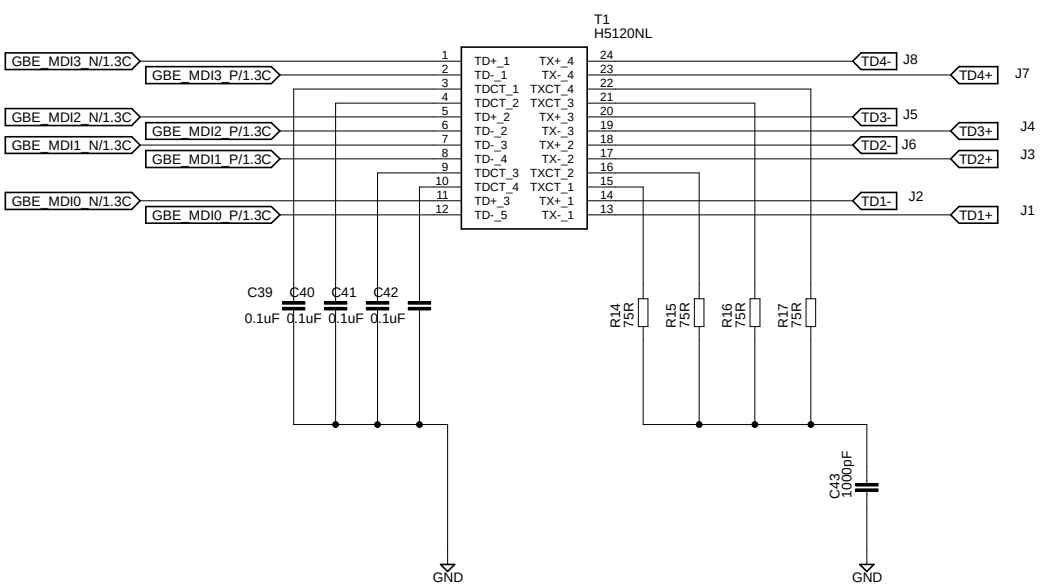


PRODELOX AB Teknikringen 6 SE-583 30 LINKÖPING +46 (0)13 465 23 00 www.prodelox.se	Created by/nitad av	Rev. By/Gransk. av	Appr. By/Godk. av
	Date/Datum	Customer/Kund	Rev.
	Description/benämning	Drawing number/Ritningsnummer	Sheet/Sida
		Synclair_demo_platform_v4	2/4 v17

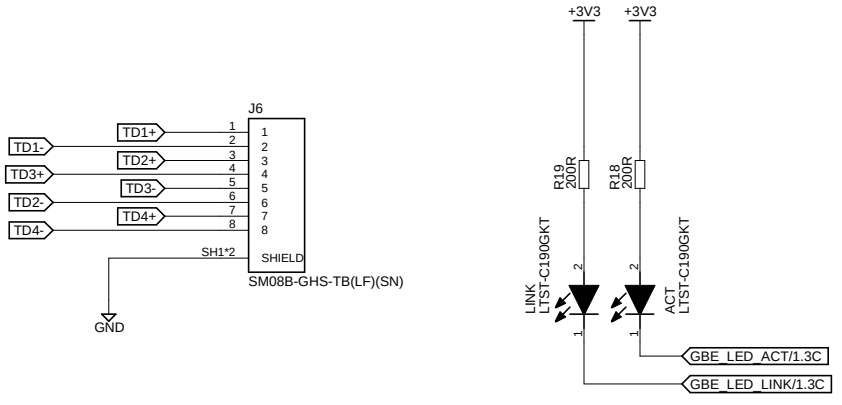
PCIE1 WIFI



ETHERNET ISOLATION



ETHERNET JST GH 8 Pin



PRODELOX AB

Teknikringen 6
SE-583 30 LINKÖPING
+46 (0)13 465 23 00
www.prodelox.se

Created by/ritad av	Rev. By/Gransk. av	Appr. By/Godk. av
Date/Datum	Customer/Kund	Rev.
2025-06-04 15:26		
Description/benämning	Drawing number/Ritningsnummer	Sheet/Sida
	Synclair_demo_platform v4	6 v17

USBSS1 controller

A

B

C

D

E



5 6 7 8

VBUS EN

ESD Protection

USBC Connector

PRODELOX AB

Teknikringen 6
SE-583 30 LINKÖPING
+46 (0)13 465 23 00
www.prodelox.se

Created by/ritad av	Rev. By/Gransk. av	Appr. By/Godk. av
Date/Datum	Customer/Kund	Rev.
2025-06-04 15:26		
Description/benämning	Drawing number/Ritningsnummer	Sheet/Sida
	Synclair_demo_plattform v17	4/6



The diagram shows the electrical connections for three components: U7 (TPD4E05U06QDQARQ1), U8 (TPD4E05U06QDQARQ1), and U9 (TPD4E05U06QDQARQ1). Each component has a 5-pin header with pins labeled 1'2, 2'2, 3'2, 4'2, and 5'2. The connections are as follows:

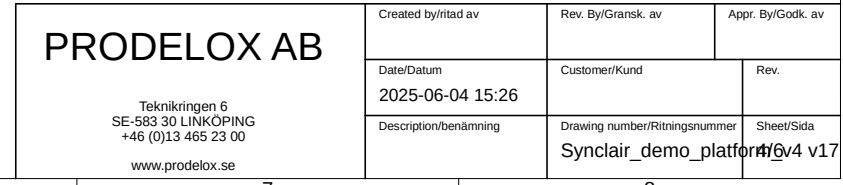
- U7:**
 - Pin 1'2: CC 2
 - Pin 2'2: USB0 D N/1.1D
 - Pin 3'2: CC 1
 - Pin 4'2: USB0 D P/1.1E
 - Pin 5'2: GND
- U8:**
 - Pin 1'2: SSTX1 N
 - Pin 2'2: SSTX1 P
 - Pin 3'2: SSRX1 P
 - Pin 4'2: SSRX1 N
 - Pin 5'2: GND
- U9:**
 - Pin 1'2: TX2 P
 - Pin 2'2: TX2 N
 - Pin 3'2: RX2 P
 - Pin 4'2: RX2 N
 - Pin 5'2: GND

Each component's internal connections are shown on the right side of the diagram:

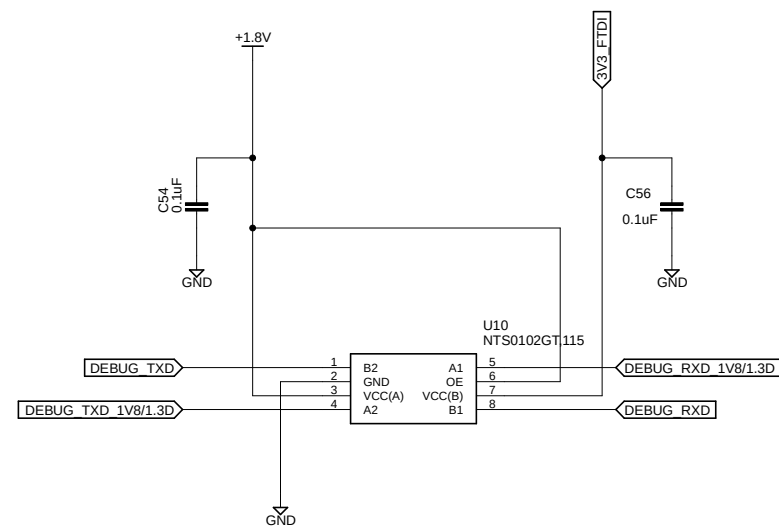
- U7:** D1+, D1-, GND_1, D2+, D2-
- U8:** D1+, D1-, GND_1, D2+, D2-
- U9:** D1+, D1-, GND_1, D2+, D2-



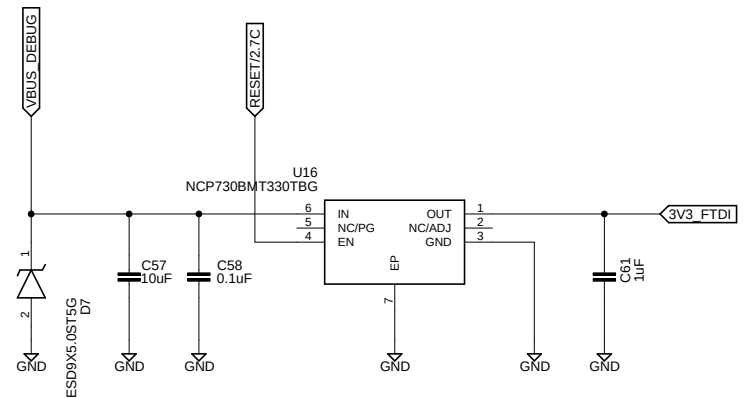
The schematic diagram illustrates the power and signal connections for the USB4080-03-A module. On the left, the **U14 AP22818AKAWT-7** voltage regulator is shown. Its **FLG** pin is connected to **GND**, its **EN** pin is connected to the **VBUS_EN** input, and its **OUT** pin provides a **+5V** output. This **+5V** output is connected to the **VBUS** line and also passes through a series of capacitors: a **D6 ESD9X5.0ST5G** ESD protection diode, followed by **C51 10uF**, **C52 0.1uF**, and **C53 0.1uF**, all connected to **GND**. The **VBUS** line then connects to the **J7** connector of the **USB4080-03-A_REVA1** module. The connector pins are as follows: **A4*2** and **A2** to **VBUS_A**; **A3** to **SSTXP1** and **A5** to **SSTXN1**; **A6** to **CC1**; **A7** to **DP1** and **A8** to **DN1**; **A10** to **SSRXN2** and **A11** to **SSRXP2**; **A12** to **SSTXN2** and **GND_A**. The **B4*2** pins on the right are connected to **B11** (**SSRX1_P**), **B10** (**SSRX1_N**), **B8** (**USB0_D_N/1.1D**), **B7** (**USB0_D_P/1.1E**), **B6** (**CC2**), **B5** (**TX2_N**), **B3** (**TX2_P**), and **B1*2** to **GND_B**. The **SHIELD** pin is connected to **G1*6**, which is then connected to **GND**.



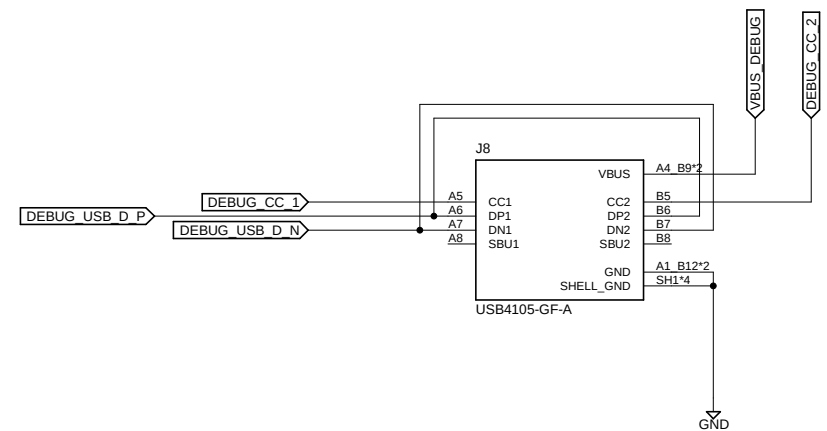
USB C - DEBUG Level shifter



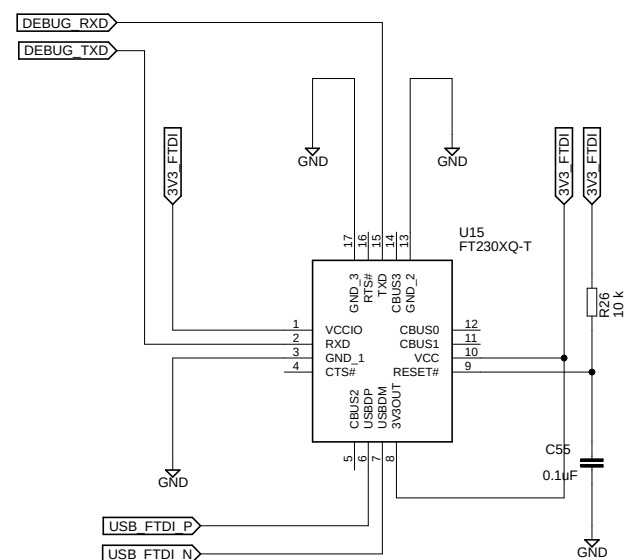
3V3 from USB



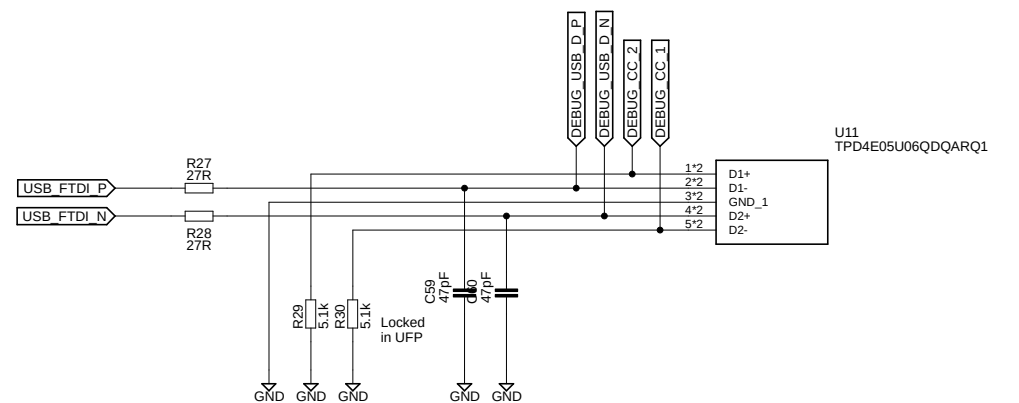
USBC Connector



FTDI USB-UART bridge



ESD Protection



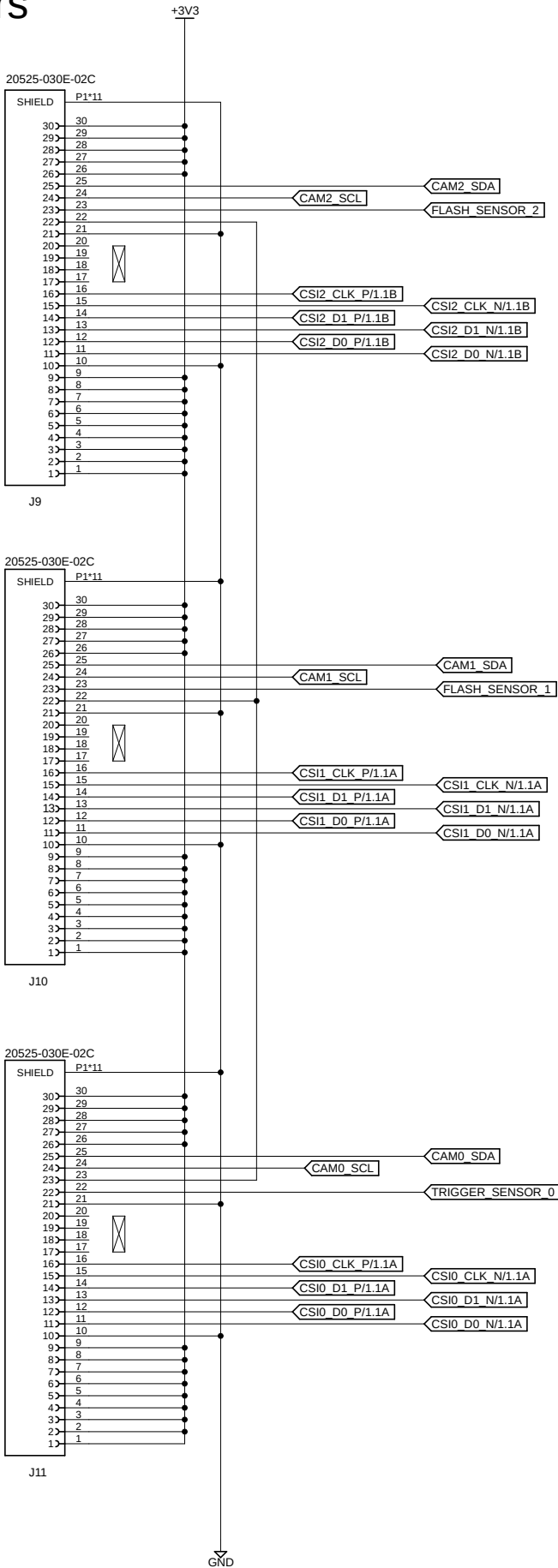
PRODELOX AB

Teknikringen 6
SE-583 30 LINKÖPING
+46 (0)13 465 23 00
www.prodelox.se

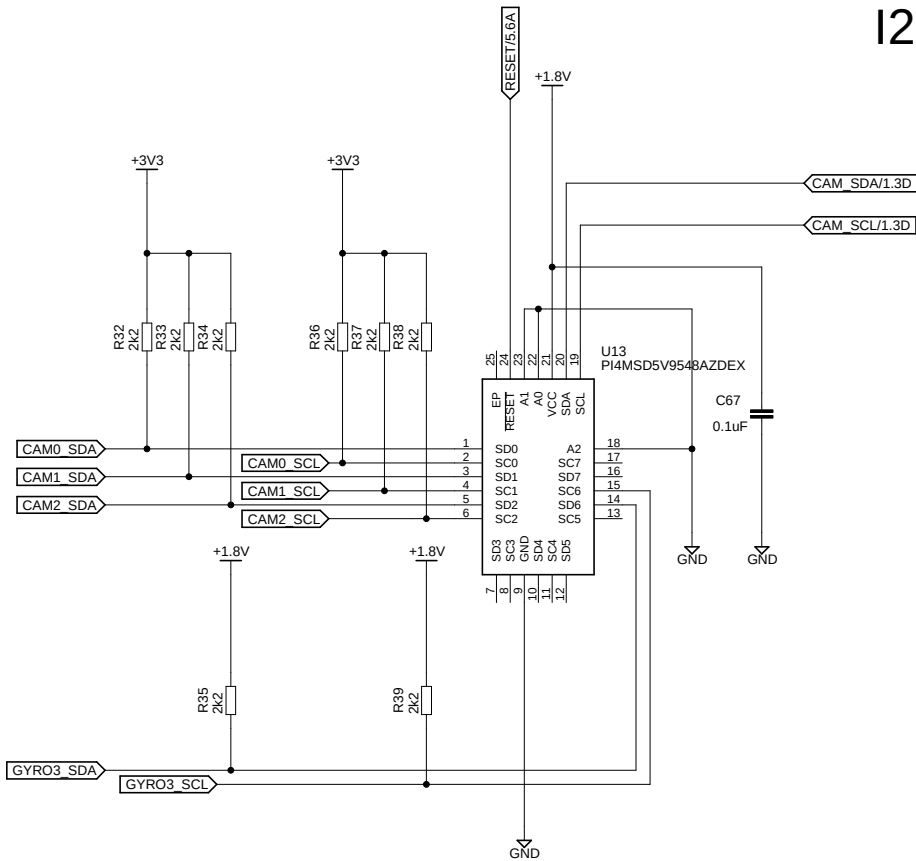
www.prodelox.se

Created by/Initat av	Rev. By/Gransk. av	Appr. By/Godk. av
Date/Datum 2025-06-04 15:26	Customer/Kund	Rev.
Description/benämning	Drawing number/Ritningsnummer Synclair_demo_platform	Sheet/Sida 5 of 4 v17

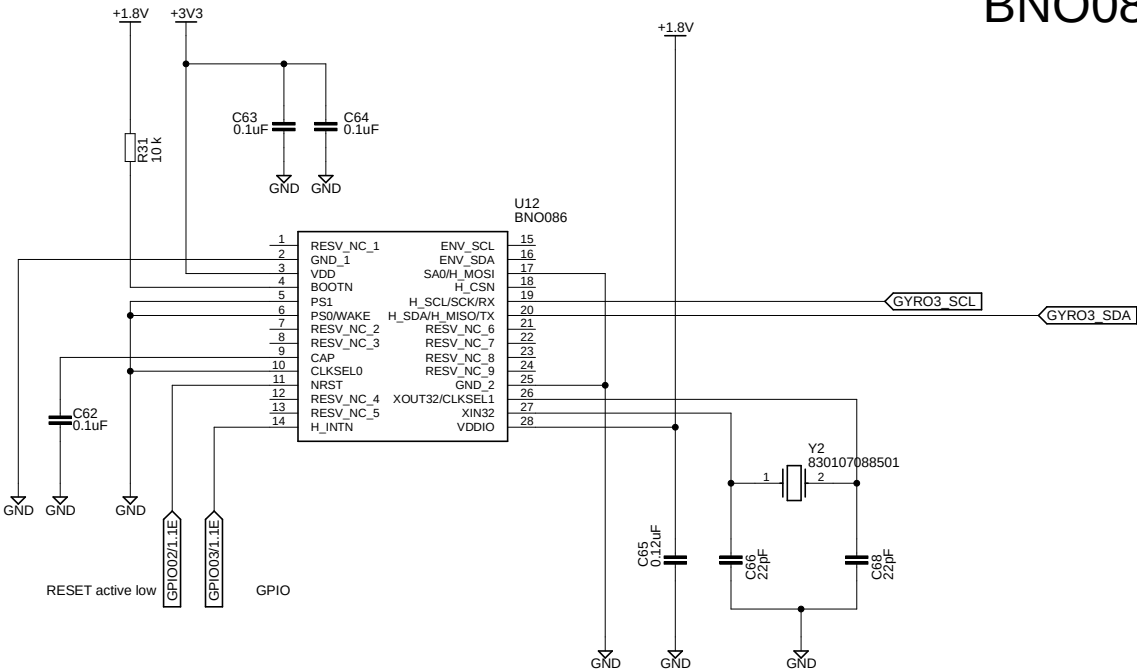
MIPI Camera Connectors



I2C MUX



Gyro BNO086



PRODELUX AB

Teknikringen 6
SE-583 30 LINKÖPING
+46 (0)13 465 23 00
www.prodelox.se

Created by/nitad av	Rev. By/Gransk. av	Appr. By/Godk. av
Date/Datum	Customer/Kund	Rev.
2025-06-04 15:26		
Description/benämning	Drawing number/Ritningsnummer	Sheet/Sida
	Synclair_demo_platform	6 v4 v17