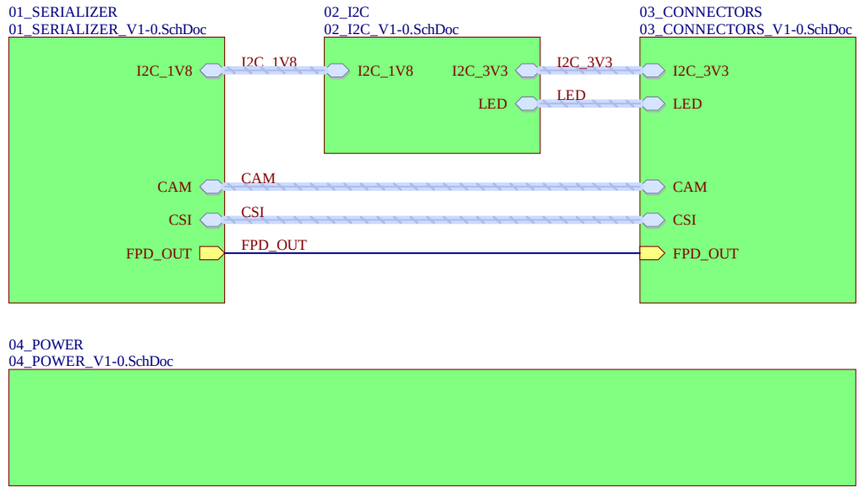

<DNP> Standard (No BOM)

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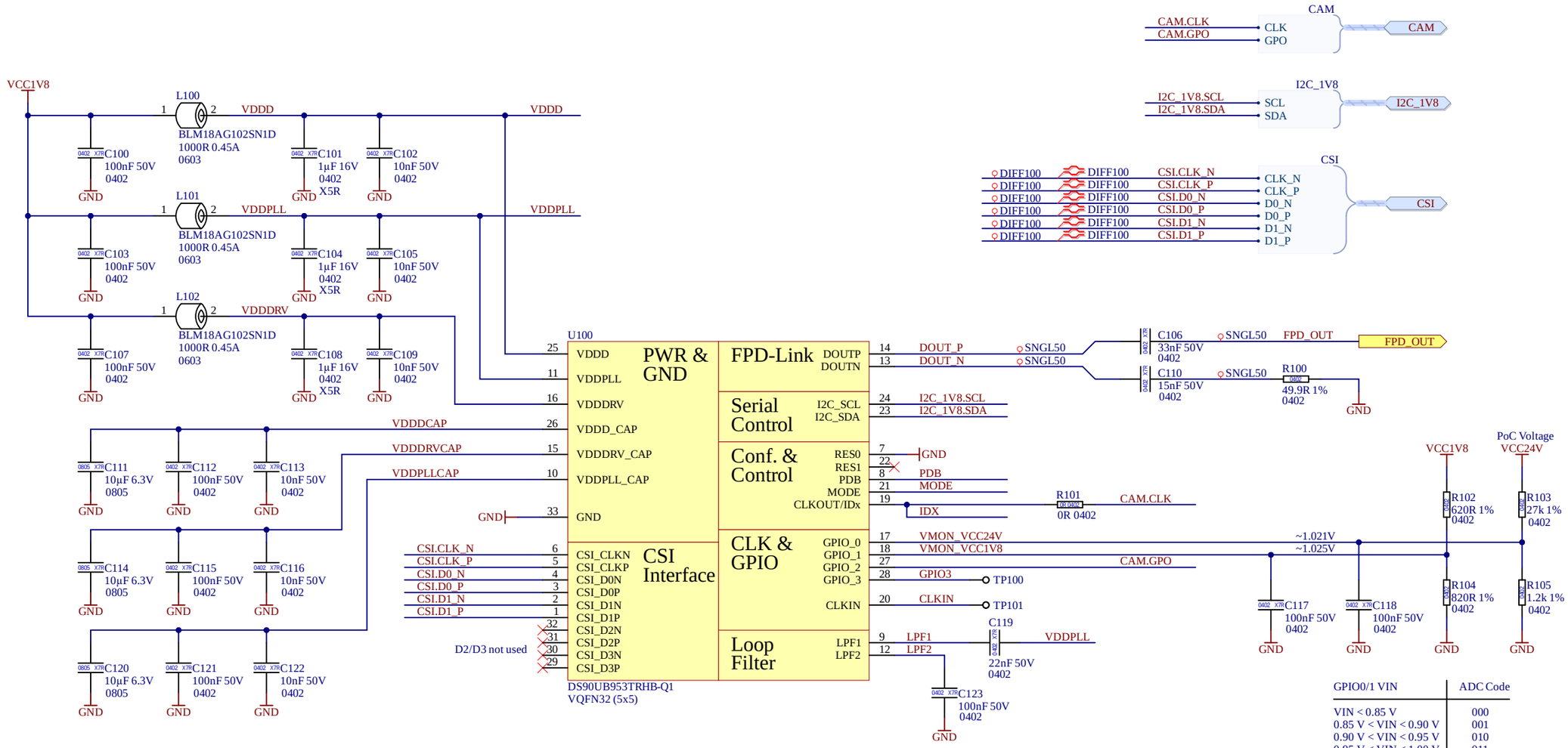
Dokumententyp: Stromlauf	Artikel-Nummer (PCB): n/a
Titel, Sub-Titel: **RPi GS CAM SER.** Block Diagramm	Projekt: PI-0017
Rev.: 1.0	Datum: 2023-05-29
Sprache: DE	Seite: 1 / 5



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Dateiname	RPi-GS-CAM-SER_PCB_V1-0.PDF
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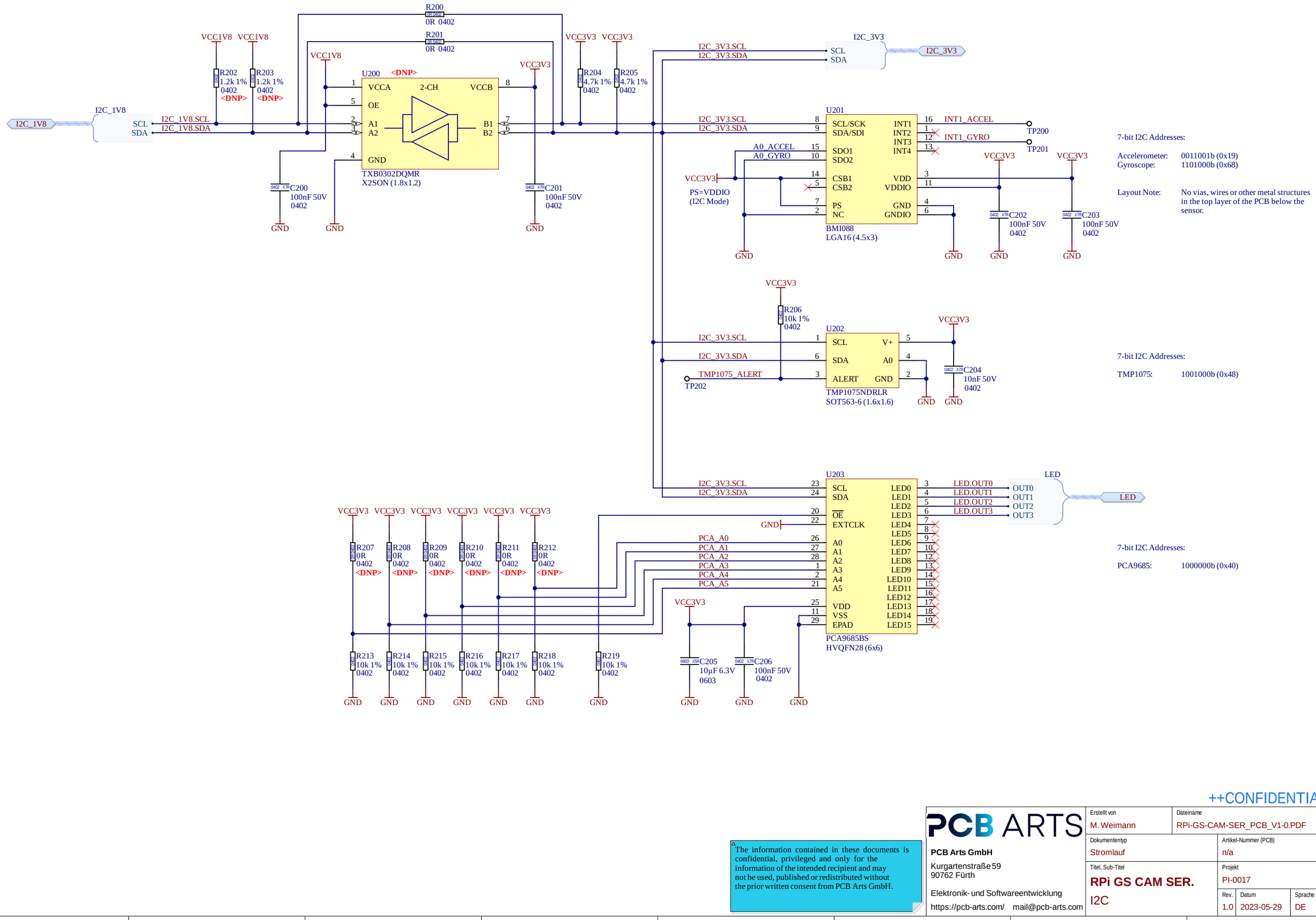
Artikel-Nummer (PCB)	n/a
Titel, Sub-Titel	**RPi GS CAM SER.** Serializer
Projekt	PI-0017
Rev.	1.0
Datum	2023-05-29
Sprache	DE
Seite	2 5



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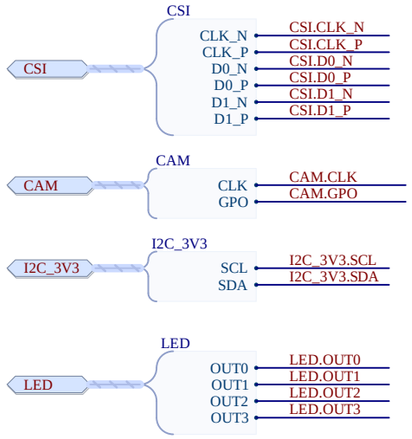
Titel, Sub-Titel	RPi GS CAM SER. / I2C
Projekt	PI-0017
Rev.	1.0
Datum	2023-05-29
Sprache	DE
Seite	3 / 5



FPD-Out / Pwr-In Connector

J300
FA1-NZSP-PCB-2
SHD
GND

FPD_OUT

L300
742863147
470R 0.5A
0603

470R @ 100 MHz
600R @ 1 GHz
Ir1/2 = 500/750 mA
typ. 190 mOhm

L301
742863147
470R 0.5A
0603

R300
4.02k 1%
0402

L302
LQH3NPN100MJRL
10µH 0.8A
SMD3x3x1.1

max. 288 mOhm

PoC Voltage
24V / 0.42A
VCC24V

C300
4.7µF 50V
1206

C301
100nF 50V
0402

GND

RPi GS CAM Connector

J301
XF3M(1)-1515-1B
Vertical
FPC FFC 1.0mm Pitch
MP1
MP2

D300
824014883
DFN3810-9L

D301
824014883
DFN3810-9L

CSI.D0_N
CSI.D0_P
CSI.D1_N
CSI.D1_P
CSI.CLK_N
CSI.CLK_P
CAM_CLK_3V3
CAM_GPO_3V3
I2C_3V3.SCL
I2C_3V3.SDA

Level-Shifters 1.8V -> 3.3V

U300
U301
A
B
C
Y
VCC
GND
SN74AUP1T97DCKR
SC70-6
Non-Inverting
Buffer

CAM.CLK
(1.8V)
CAM.GPO
(1.8V)

C302
100nF 50V
0402

C303
100nF 50V
0402

VCC3V3

L303
BLM18AG102SN1D
1000R 0.45A
0603

C304
1µF 16V
0603

C305
100nF 50V
0402

LED MODULE Connector

VCC5V

L304
300R 3A
742792031
0805

C306
1µF 16V
0603

C307
100nF 50V
0402

D302
CESDP0402UC5VB
0402

J302
10-Pin SMT Pin Socket 2 Row
623310235321

J303 <DNP>
10-Pin SMT Pin Socket 2 Row
62301021021

I2C_3V3.SCL
I2C_3V3.SDA
LED.OUT0
LED.OUT1
LED.OUT2
LED.OUT3

I2C & LED.OUT[3..0] = 3.3V

D303
82400274
0402

C308
100nF 50V
0402

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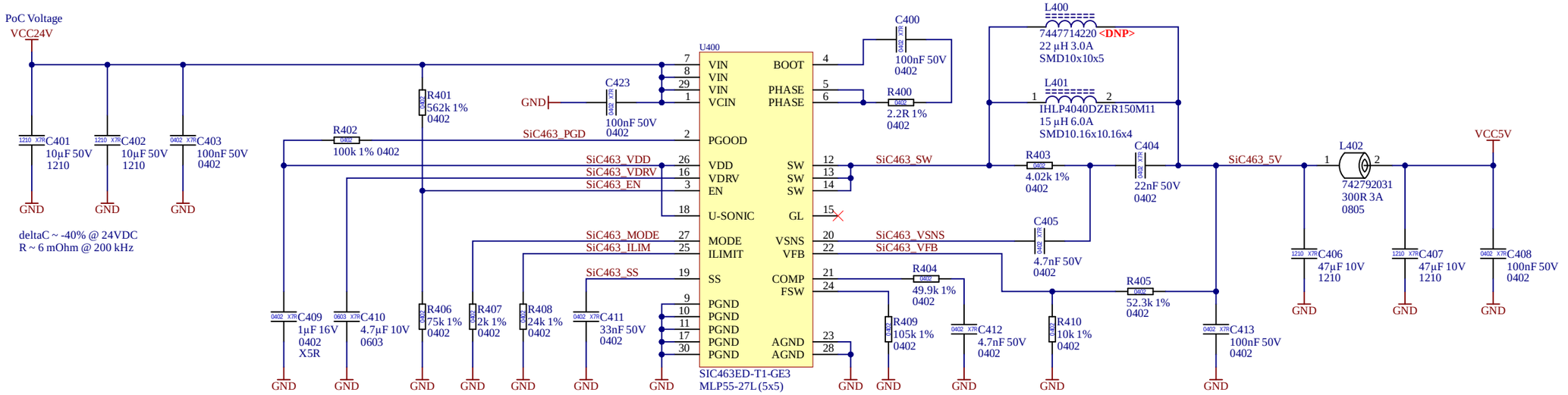
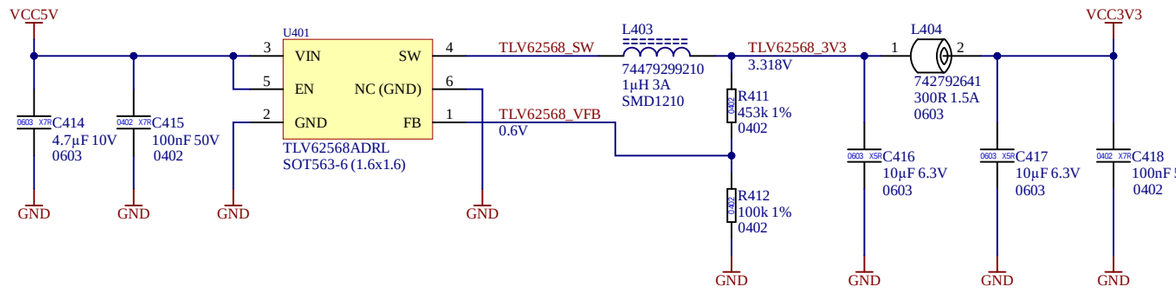
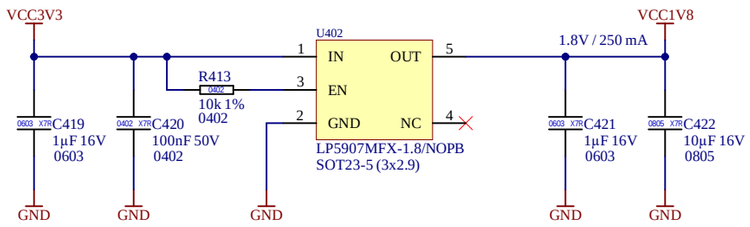
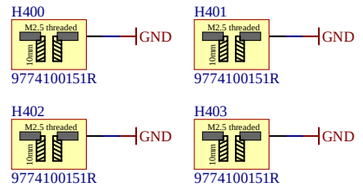
Artikel-Nummer (PCB)	n/a
Titel, Sub-Titel	RPi GS CAM SER. Connectors
Projekt	PI-0017
Rev.	1.0
Datum	2023-05-29
Sprache	DE
Seite	4 / 5









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Artikel-Nummer (PCB)	n/a
Titel, Sub-Titel	**RPi GS CAM SER.** Power Supplies
Projekt	PI-0017
Rev.	1.0
Datum	2023-05-29
Sprache	DE
Seite	5 / 5