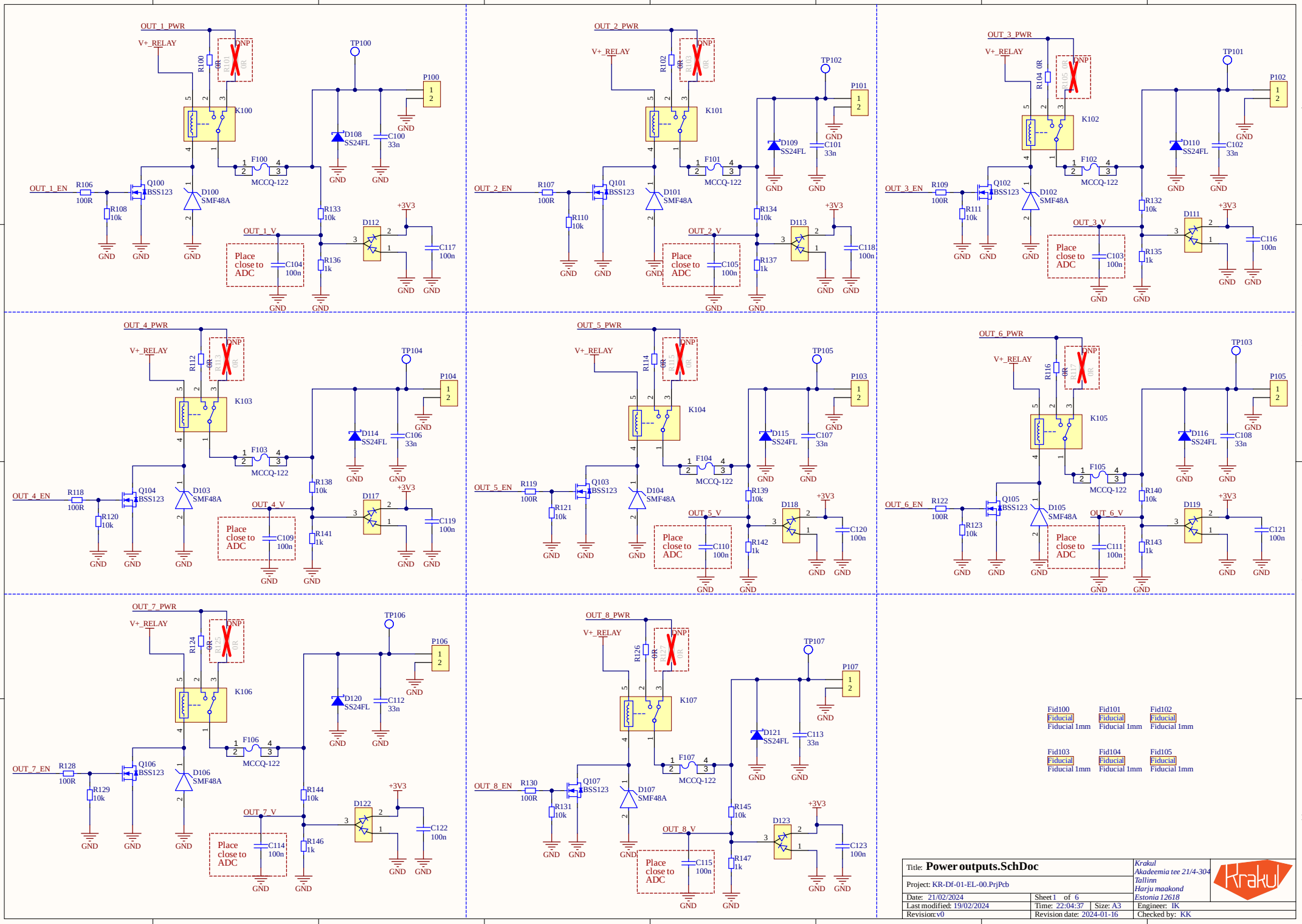
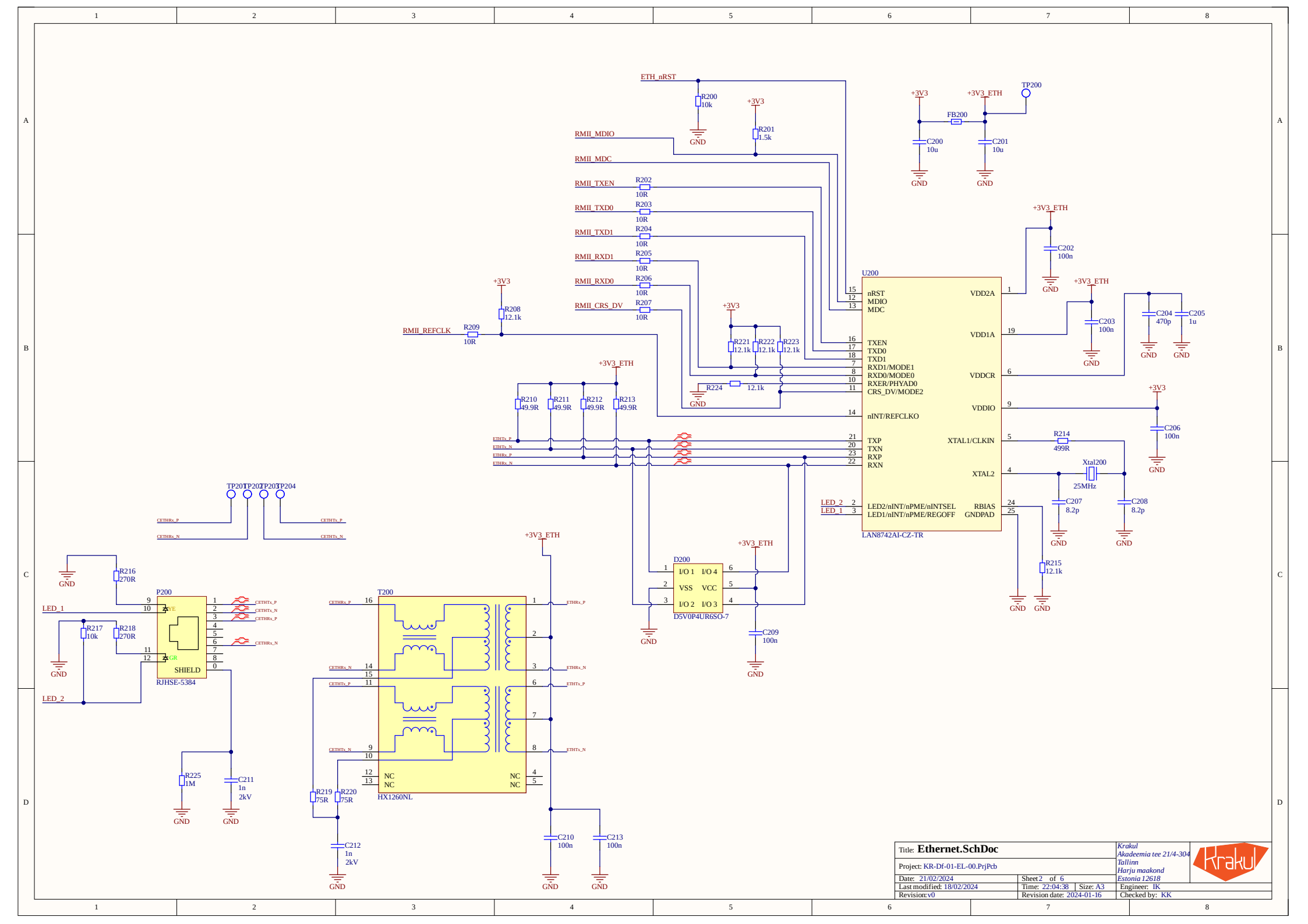
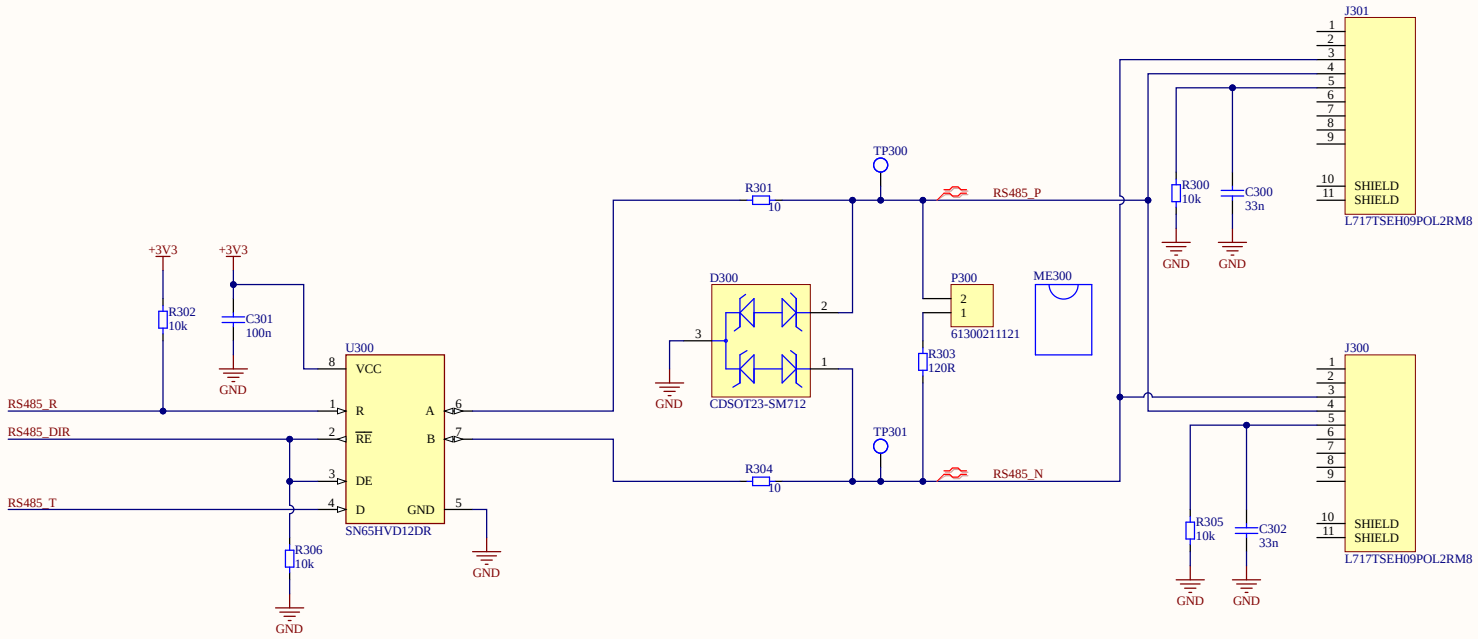

OUT_1_PWR
V+_RELAY
DNP
R100 0R
R101 0R
K100
TP100
P100
D108 SS24FL
C100 33n
GND
F100
MCCQ-122
OUT_1_EN
R106 100R
Q100 BSS123
D100 SMF48A
R108 10k
R133 10k
R136 1k
D112
C117 100n
OUT_1_V
Place close to ADC
C104 100n
+3V3
OUT_2_PWR
R102 0R
R103 0R
K101
TP102
P101
D109 SS24FL
C101 33n
F101
OUT_2_EN
R107 100R
Q101 BSS123
D101 SMF48A
R110 10k
R134 10k
R137 1k
D113
C118 100n
OUT_2_V
C105 100n
OUT_3_PWR
R104 0R
R105 0R
K102
TP101
P102
D110 SS24FL
C102 33n
F102
OUT_3_EN
R109 100R
Q102 BSS123
D102 SMF48A
R111 10k
R132 10k
R135 1k
D111
C116 100n
OUT_3_V
C103 100n
OUT_4_PWR
R112 0R
R113 0R
K103
TP104
P104
D114 SS24FL
C106 33n
F103
OUT_4_EN
R118 100R
Q104 BSS123
D103 SMF48A
R120 10k
R138 10k
R141 1k
D117
C119 100n
OUT_4_V
C109 100n
OUT_5_PWR
R114 0R
R115 0R
K104
TP105
P103
D115 SS24FL
C107 33n
F104
OUT_5_EN
R119 100R
Q103 BSS123
D104 SMF48A
R121 10k
R139 10k
R142 1k
D118
C120 100n
OUT_5_V
C110 100n
OUT_6_PWR
R116 0R
R117 0R
K105
TP103
P105
D116 SS24FL
C108 33n
F105
OUT_6_EN
R122 100R
Q105 BSS123
D105 SMF48A
R123 10k
R140 10k
R143 1k
D119
C121 100n
OUT_6_V
C111 100n
OUT_7_PWR
R124 0R
R125 0R
K106
TP106
P106
D120 SS24FL
C112 33n
F106
OUT_7_EN
R128 100R
Q106 BSS123
D106 SMF48A
R129 10k
R144 10k
R146 1k
D122
C122 100n
OUT_7_V
C114 100n
OUT_8_PWR
R126 0R
R127 0R
K107
TP107
P107
D121 SS24FL
C113 33n
F107
OUT_8_EN
R130 100R
Q107 BSS123
D107 SMF48A
R131 10k
R145 10k
R147 1k
D123
C123 100n
OUT_8_V
C115 100n
Fid100 Fiducial Fiducial 1mm
Fid101 Fiducial Fiducial 1mm
Fid102 Fiducial Fiducial 1mm
Fid103 Fiducial Fiducial 1mm
Fid104 Fiducial Fiducial 1mm
Fid105 Fiducial Fiducial 1mm
Title: Power outputs.SchDoc
Project: KR-Df-01-EL-00.PrjPcb
Date: 21/02/2024
Last modified: 19/02/2024
Revision: v0
Sheet 1 of 6
Time: 22:04:37
Size: A3
Revision date: 2024-01-16
Engineer: IK
Checked by: KK
Krakul
Akadeemia tee 21/4-304
Tallinn
Harju maakond
Estonia 12618

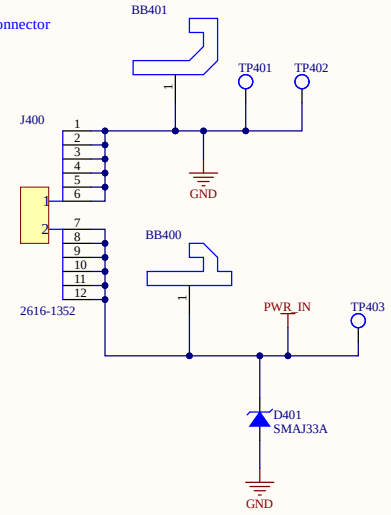


Title: **Ethernet.SchDoc**			*Krakul* *Akadeemia tee 21/4-304* *Tallinn* *Harju maakond* *Estonia 12618*
Project: KR-Df-01-EL-00.PrjPcb			
Date: 21/02/2024	Sheet 2 of 6		Engineer: IK
Last modified: 18/02/2024	Time: 22:04:38	Size: A3	
Revision: v0	Revision date: 2024-01-16		Checked by: KK

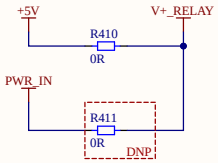


Title: **RS485.SchDoc**		*Krakul* *Akadeemia tee 21/4-304* *Tallinn* *Harju maakond* *Estonia 12618*
Project: KR-Df-01-EL-00.PrjPcb		
Date: 21/02/2024	Sheet 3 of 6	
Last modified: 18/02/2024	Time: 22:04:39 | Size: A3	Engineer: IK
Revision: v0	Revision date: 2024-01-16	Checked by: KK

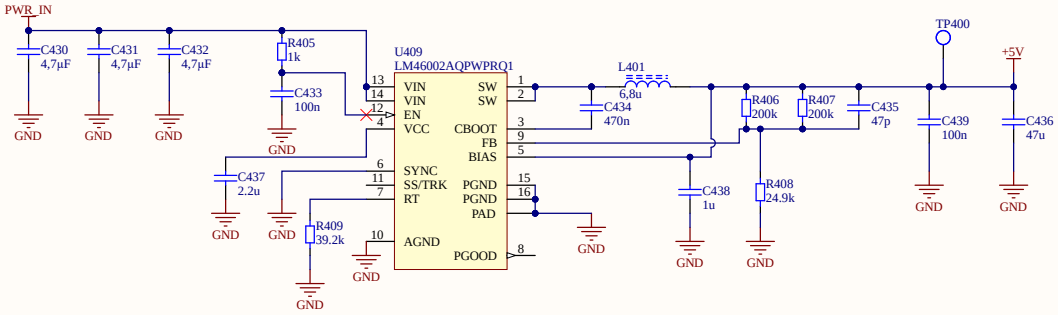
Main Connector



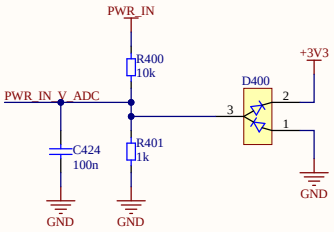
Relay suply selection



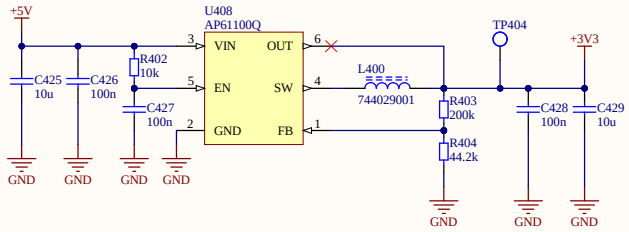
5V SMPS



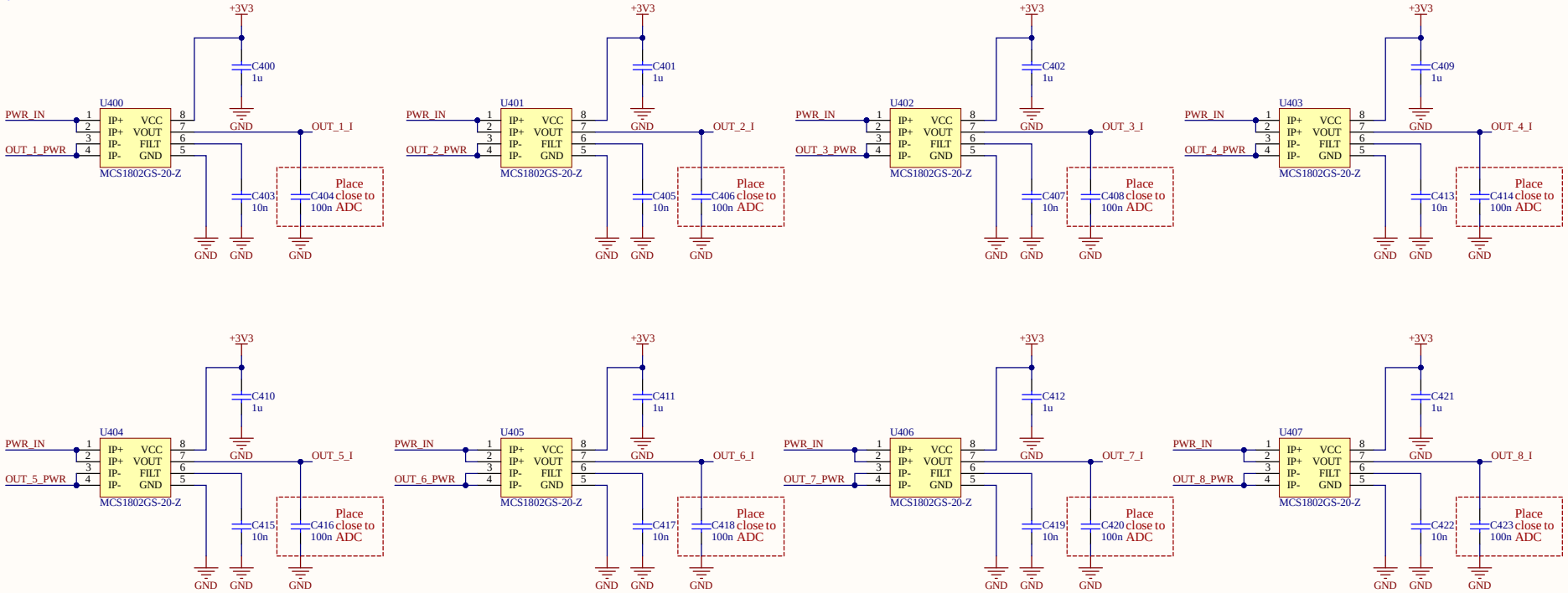
PWR_IN Voltage measurement



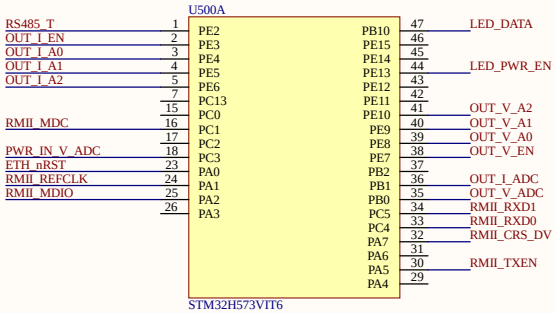
3.3V SMPS

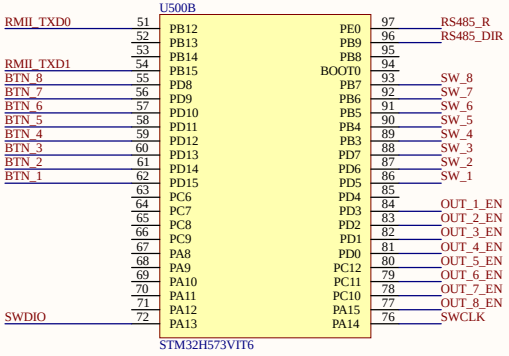


Current measurement

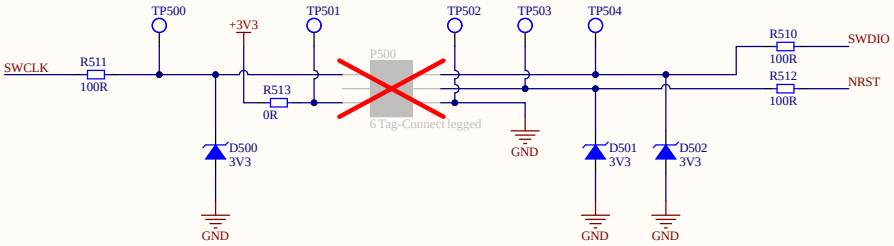


Title: **Power input.SchDoc**		*Krakul* *Akadeemia tee 21/4-304* *Tallinn* *Harju maakond* *Estonia 12618*
Project: KR-Df-01-EL-00.PrjPcb		
Date: 21/02/2024	Sheet 4 of 6	
Last modified: 21/02/2024	Time: 22:04:39 | Size: A3	Engineer: IK
Revision: v0	Revision date: 2024-01-16	Checked by: KK

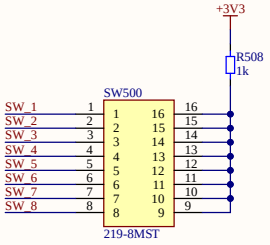




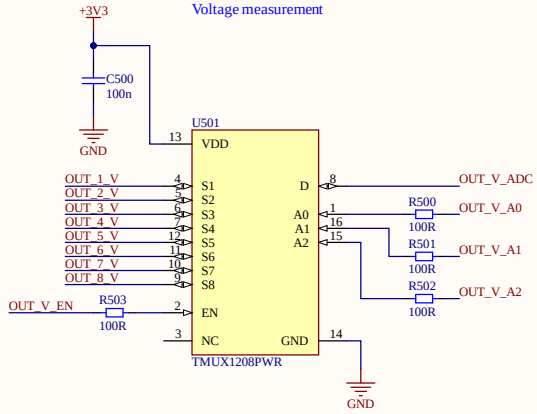
Debug header



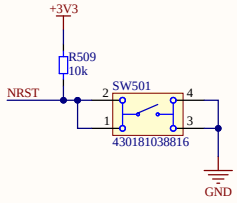
Confiscuration switch



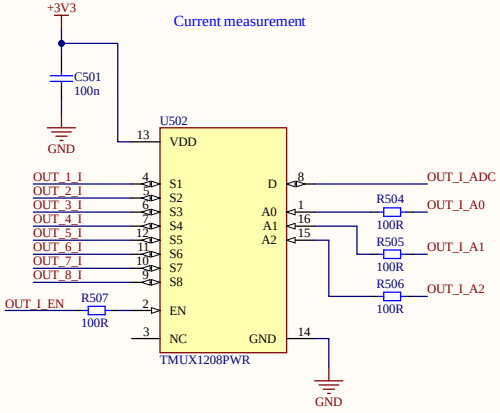
Voltage measurement



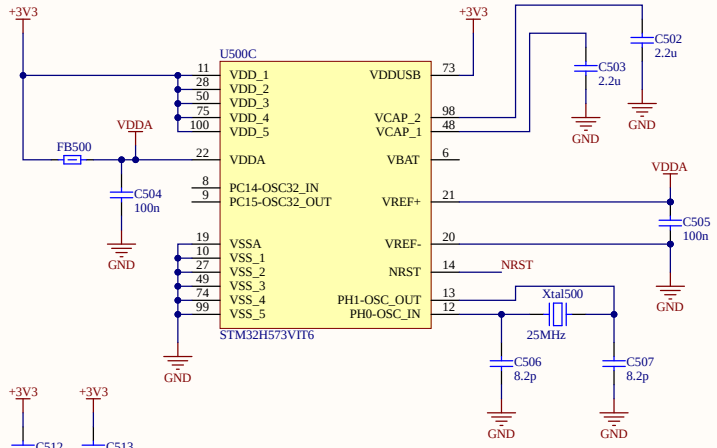
Reset switch



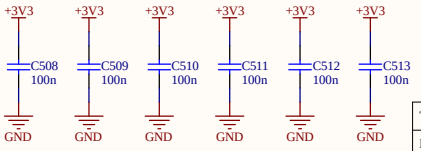
Current measurement



Power and Crystal

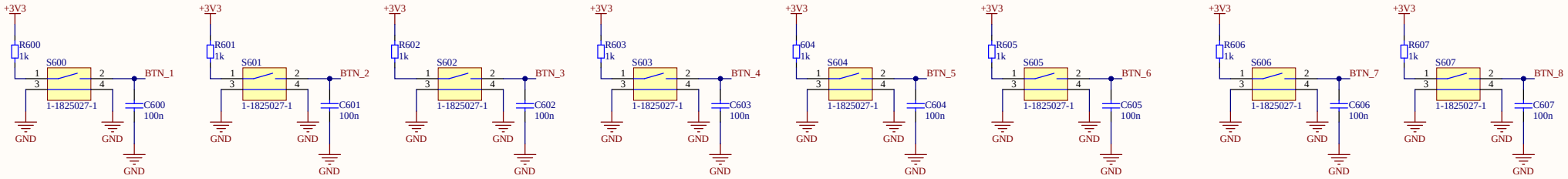


VDD and VDDUSB

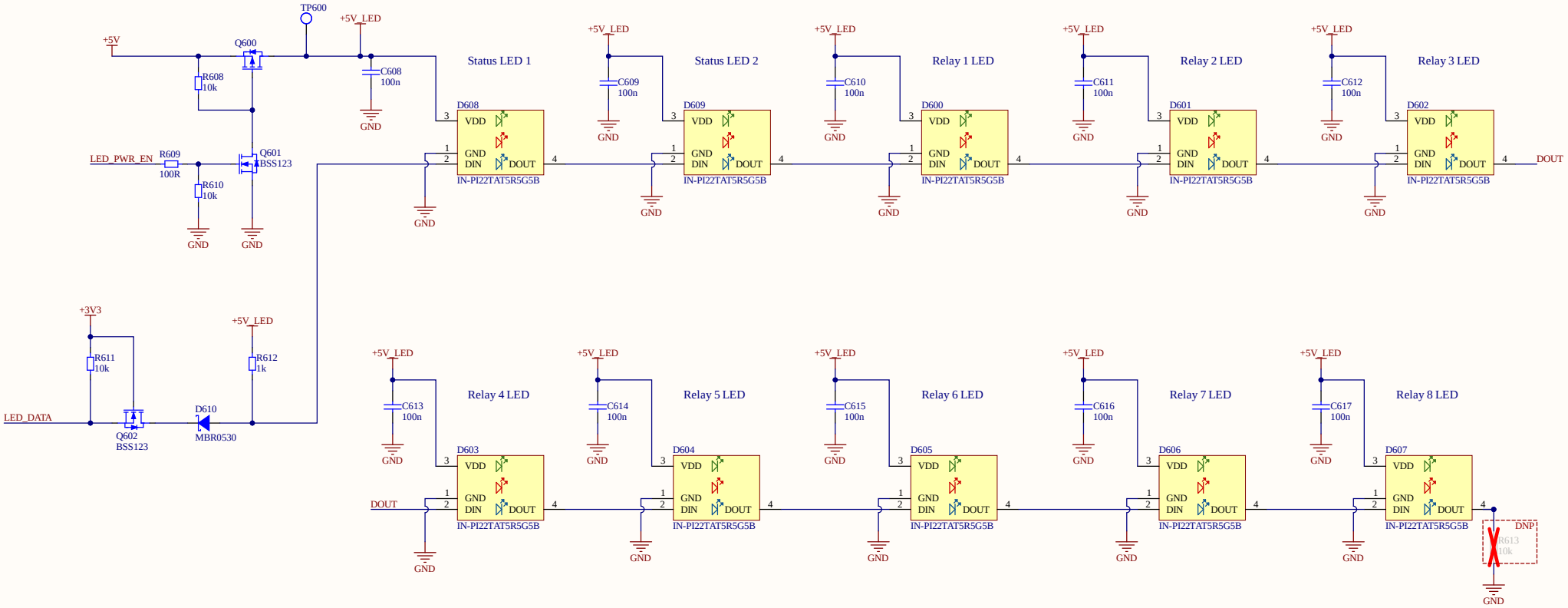


Title: **MCU.SchDoc**		Krakul Akadeemia tee 21/4-304 Tallinn Harju maakond Estonia 12618
Project: KR-Df-01-EL-00.PrjPcb		
Date: 21/02/2024	Sheet 5 of 6	Engineer: IK
Last modified: 19/02/2024	Time: 22:04:40 | Size: A3	Checked by: KK
Revision: v0	Revision date: 2024-01-16	

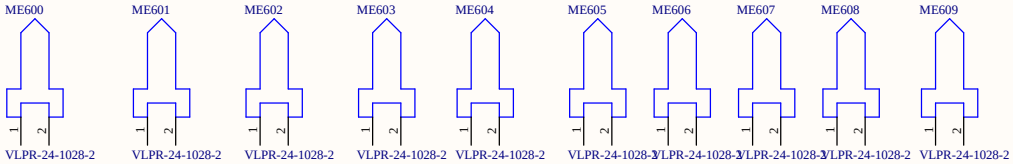
Buttons
NB! Enable internal weak pull-downs in the MCU for BTN pins.



RGB LEDs



Light Guides



Title: **LEDs_Switches.SchDoc**		*Krakul* *Akadeemia tee 21/4-304* *Tallinn* *Harju maakond* *Estonia 12618*
Project: KR-Df-01-EL-00.PrjPcb		
Date: 21/02/2024	Sheet 6 of 6	
Last modified: 18/02/2024	Time: 22:04:40 | Size: A3	Engineer: IK
Revision: v0	Revision date: 2024-01-16	Checked by: KK