

1

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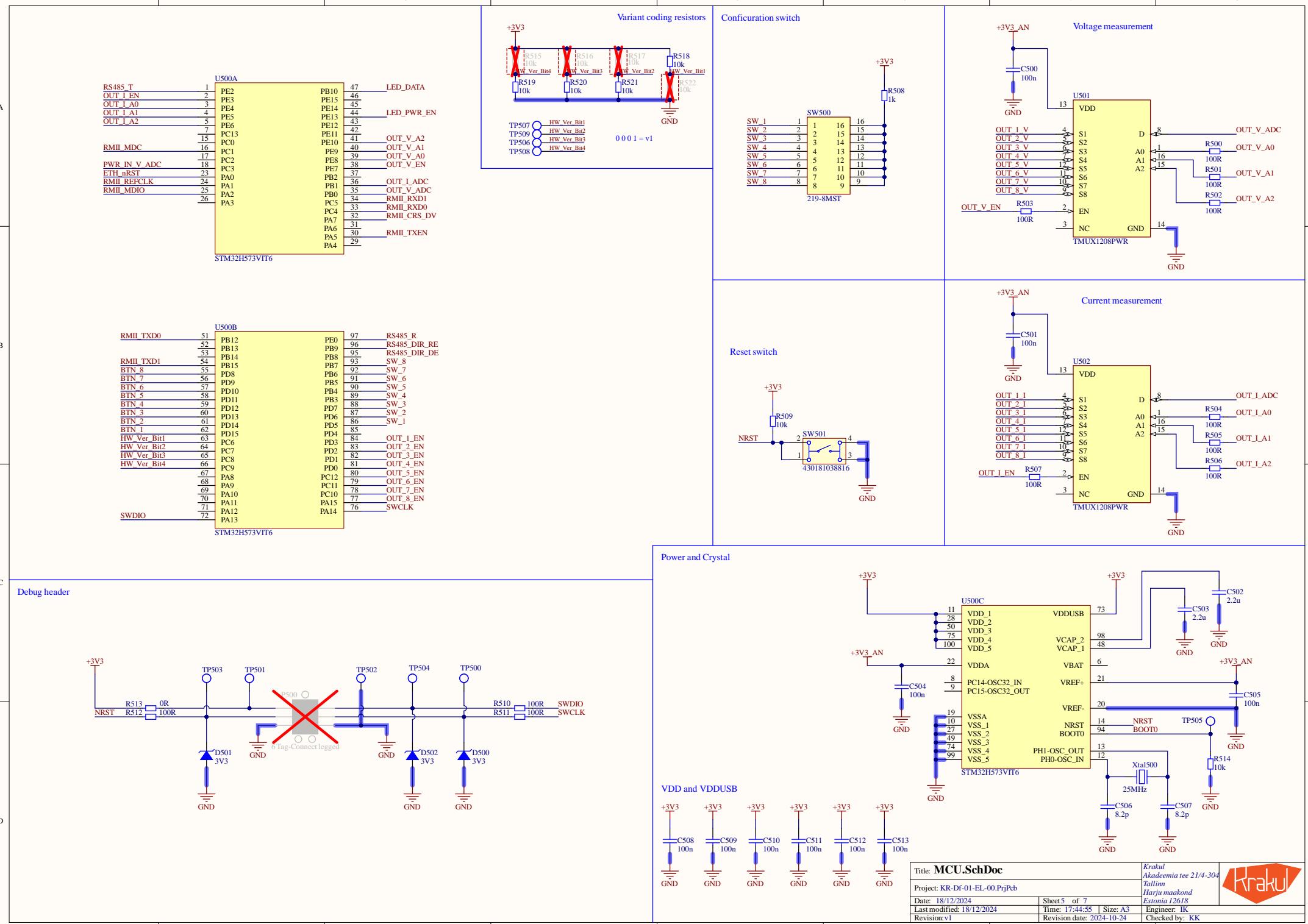
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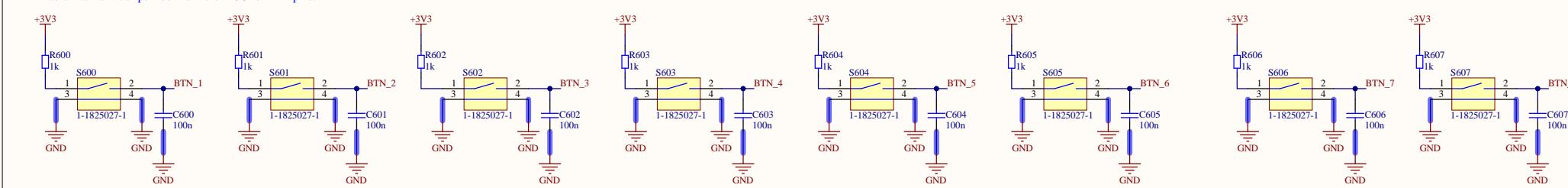
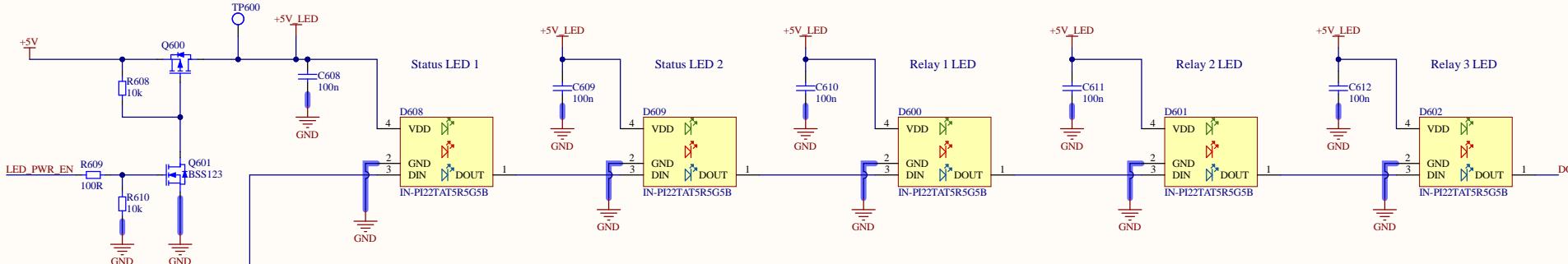
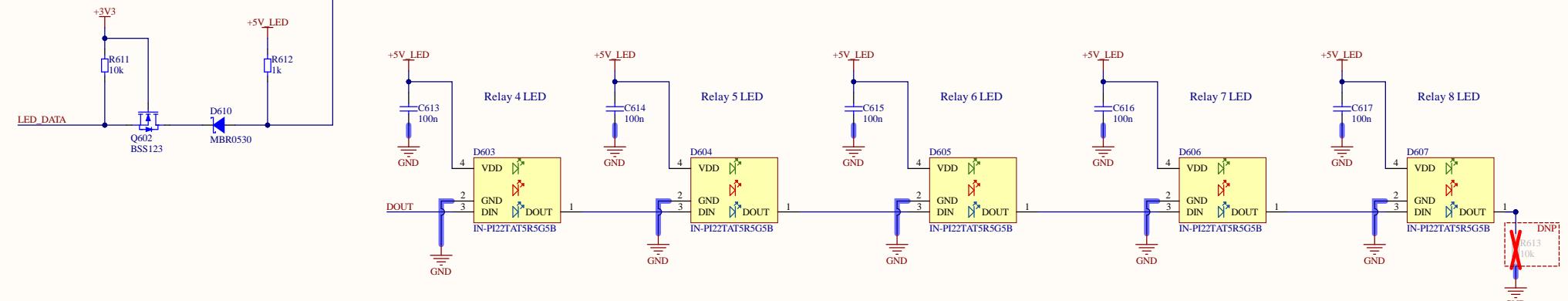
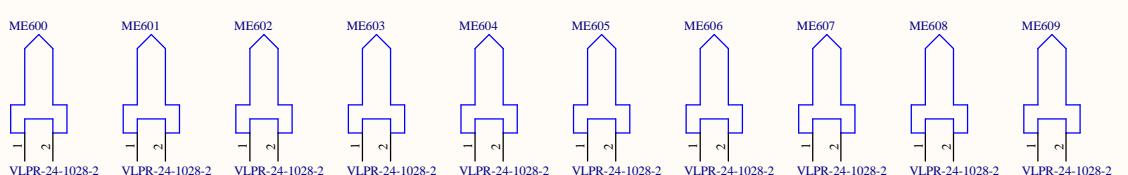
7

8



1 2 3 4 5 6 7 8

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

**RGB LEDs****C****D**

Title: LEDs_Switches.SchDoc

Krakul
Akadeemia tee 21/4-304
Tallinn
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Estonia 12618

Project: KR-Df-01-EL-00.PjrPcb

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Last modified: 18/12/2024
Time: 17:44:55 | Size: A3
Revision: v1
Revision date: 2024-10-24
Checked by: KKDate: 18/12/2024
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V0

First design. See design descriptions

V0.1

A Repopulate R101, R103, R105, R113, R115, R117
R125, R127
Unpopulate R100, R102, R104, R112, R114, R116
R124, R126

A

V1
RDB LEDs D600-D608 part number field updated to the correct value
K100-K107 schematic symbol NC/NO orientation fixed and DNP marking moved over the correct resistor.
R514 added a pull-down to U500 pin 94 along with TP505
J300 and J301 pin order changed as RS485 dsub specification suggests. Connections adjusted accordingly.
Added C124-C147 and R148-R155 as part of snubber circuit for the relays
K100-K107 part number replaced with J107F1CS205VDC.45
D600-D609 schematic symbol pin order rearranged according to the manufacturer's documentation.
Added 3V3 LDO for analogue circuits (U401, C440,C441,R412).
Ferrite bead FB500 removed from MCU AVDD path.
Added R413, R414, Q400, R415, D402.
Added mechanical standoffs MH400-MH406
Rearranged P500 pinout to match standard implementation
Split RS485 direction control into two signals from MCU

B

B

C

C

D

D

Title: Revision history.SchDoc		Krakul Akadeemia tee 21/4-304 Tallinn Harju maakond Estonia I 2618		
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Last modified: 18/12/2024	Time: 17:44:55	Size: A3		
Revision:v1		Engineer: IK		
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