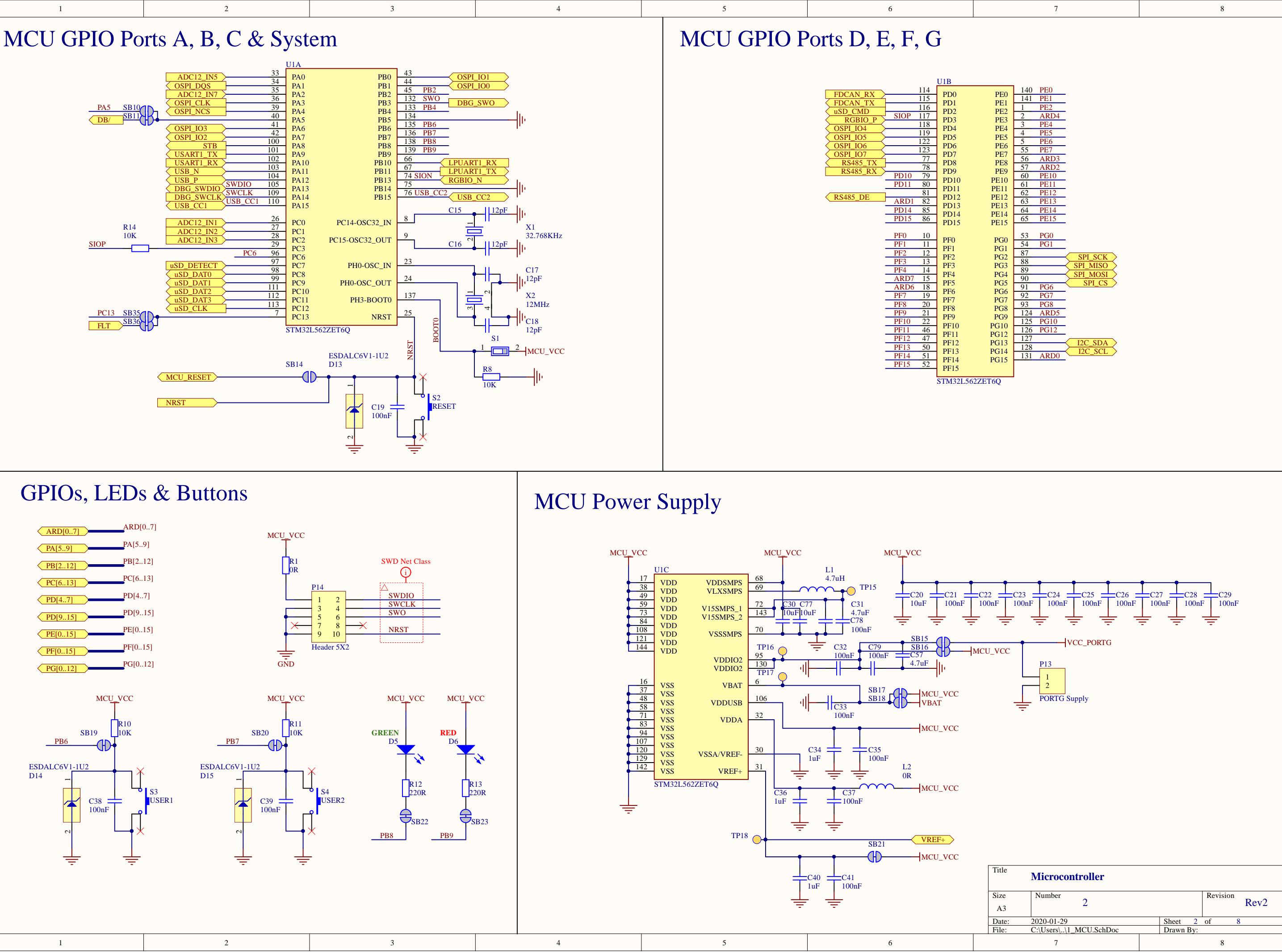
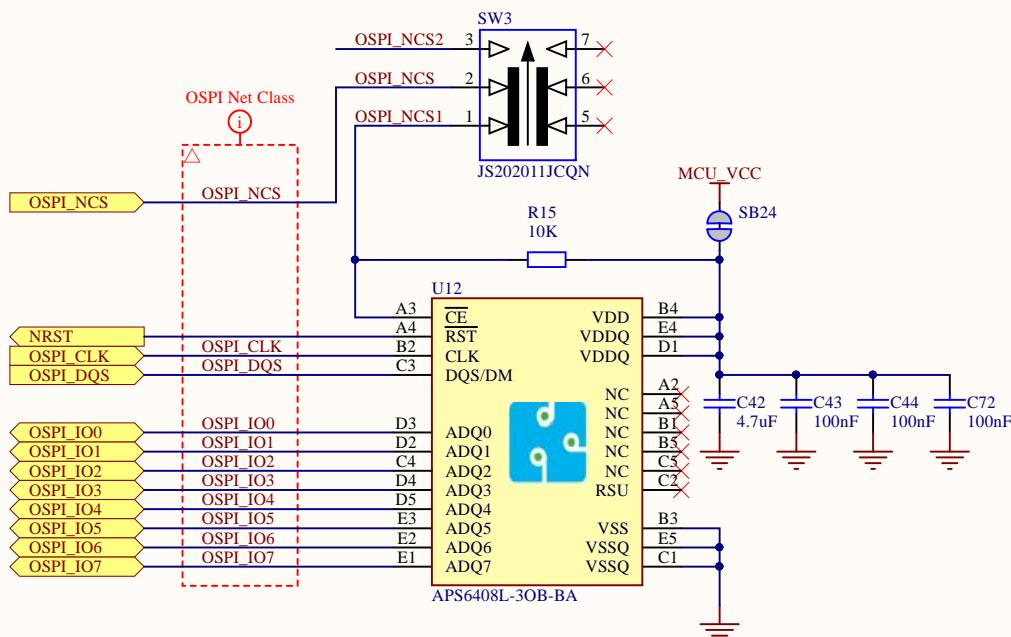


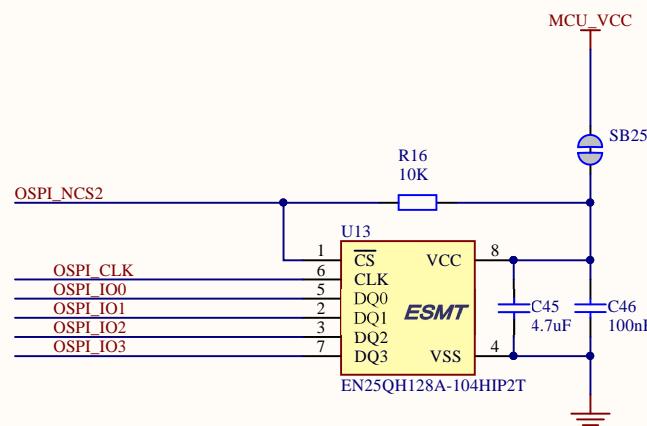
| Title <b>RUTRONIK Development Kit STM32L5</b>  |              |                  |
|--|--------------|------------------|
| Size<br>A4                                     | Number<br>1  | Revision<br>Rev2 |
| Date: 2020-01-29                               | Sheet 1 of 8 |                  |
| File: C:\Users\...\0_RUT_DevKit_STM32L5.SchDoc |              | Download By:     |



# OSPI PSRAM

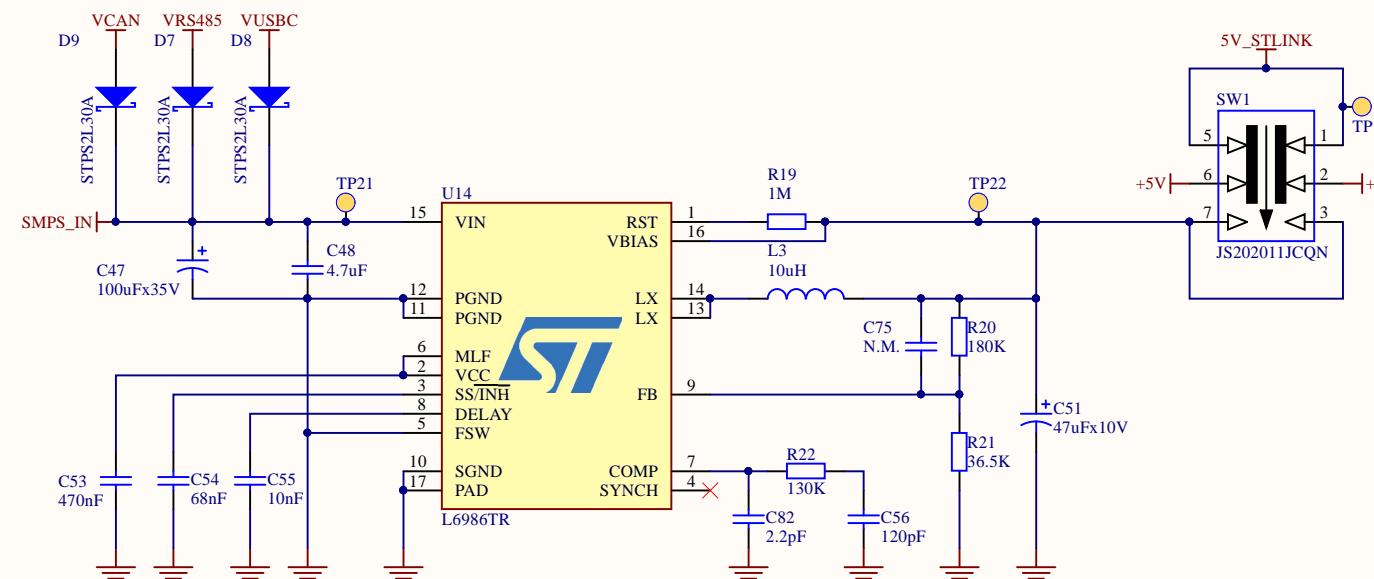
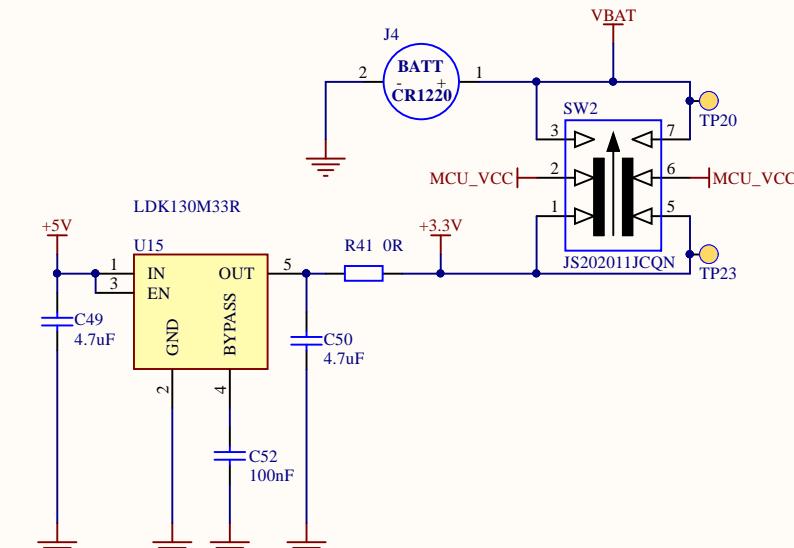
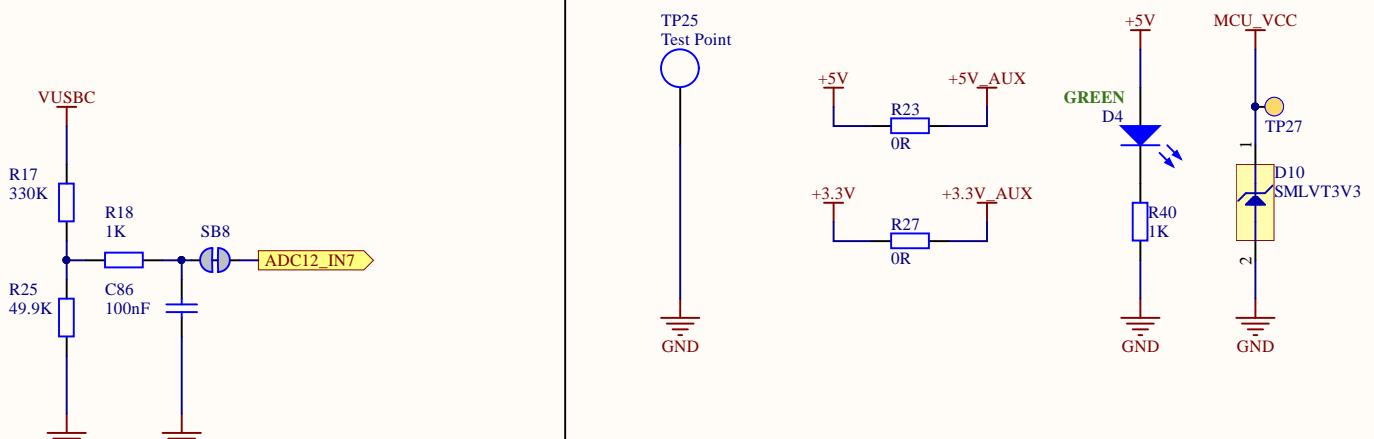
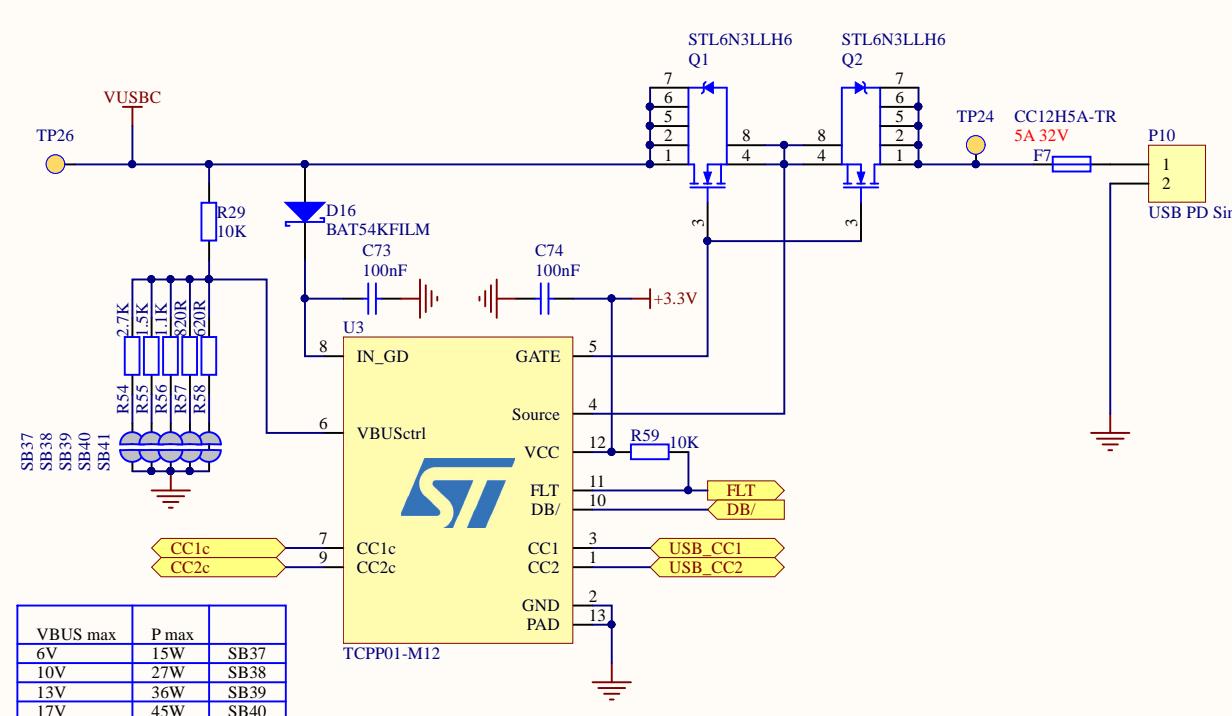


# QSPI NOR Flash



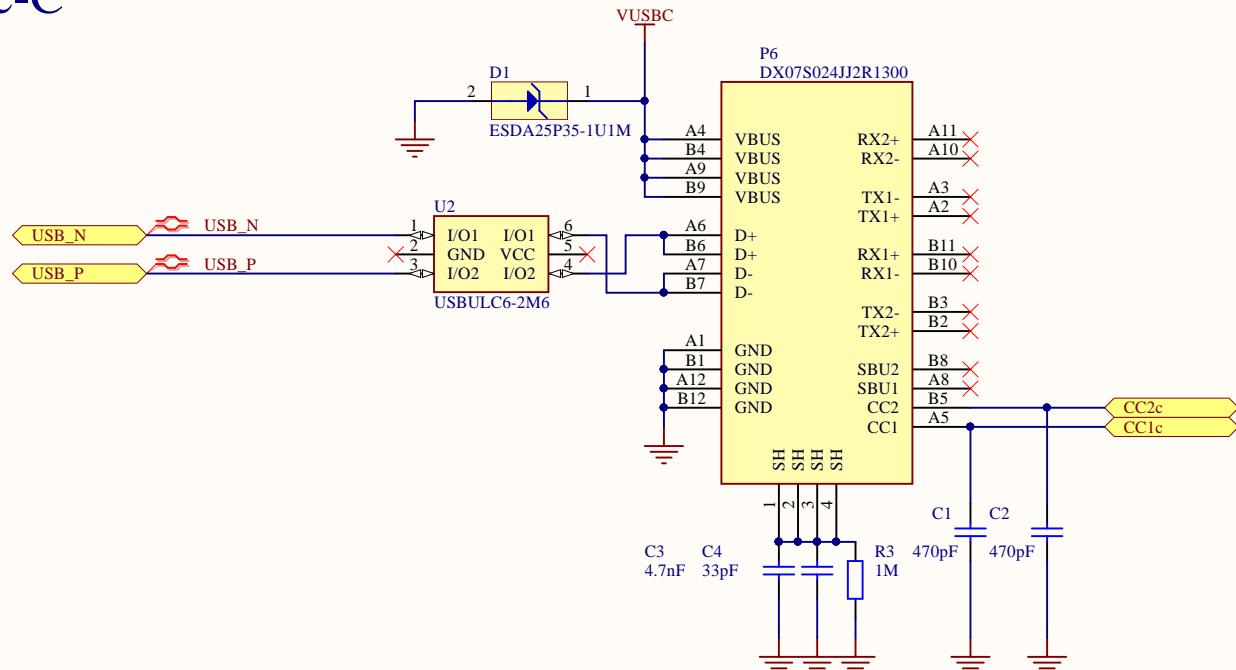
Title **External Memories**

|                                      |             |                            |
|--------------------------------------|-------------|----------------------------|
| Size<br>A4                           | Number<br>3 | Revision<br>Rev2           |
| Date:<br>2020-01-29                  |             | Sheet <b>3</b> of <b>8</b> |
| File:<br>C:\Users...\2_Memory.SchDoc |             | Drawn By:                  |

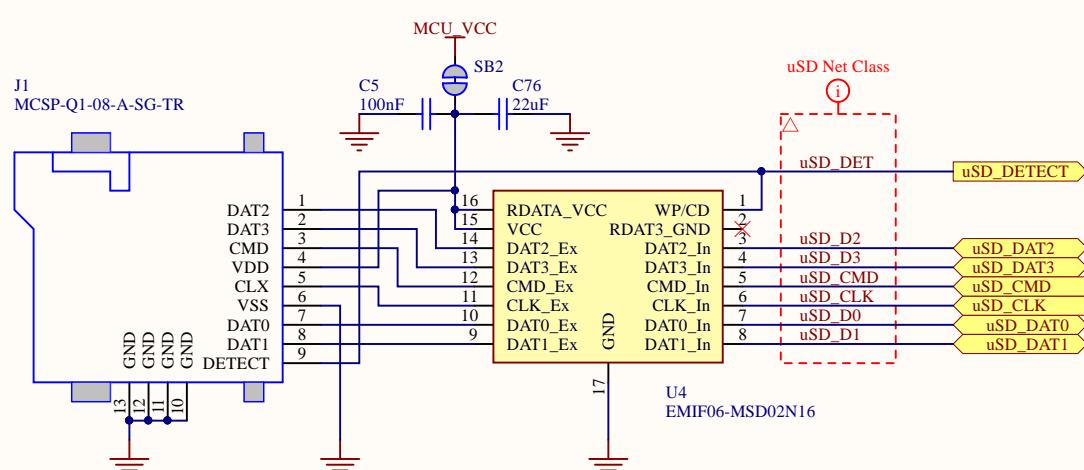
**Main SMPS****MCU LDO & Battery****USB PD SNK Control**

| Title Power Management          |              |               |
|---------------------------------|--------------|---------------|
| Size A3                         | Number 4     | Revision Rev2 |
| Date: 2020-01-29                | Sheet 4 of 8 |               |
| File: C:\Users\..3_Power.SchDoc | Drawn By:    |               |

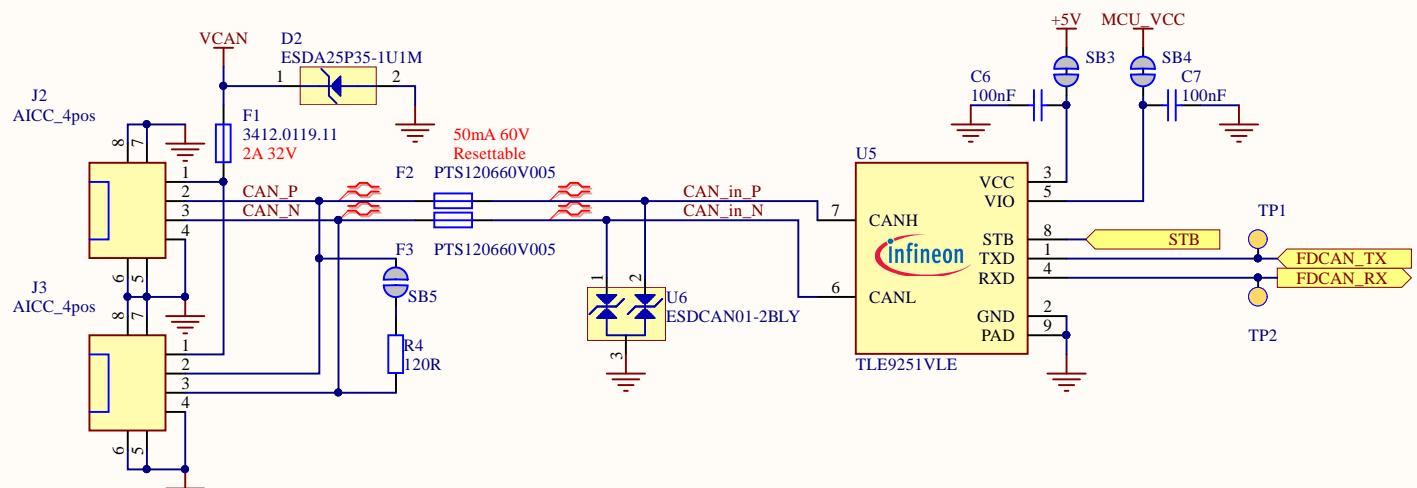
# USB Type-C



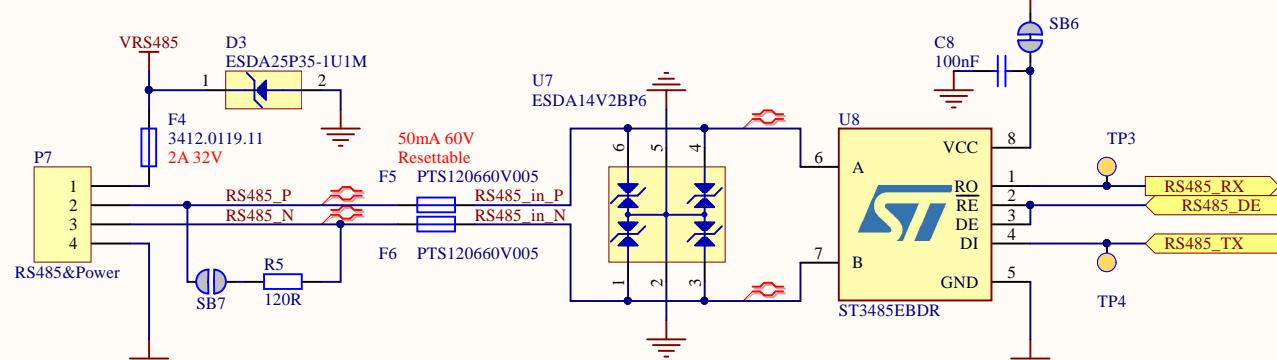
# Micro SD Card



# CAN FD



# RS485



## Title Interfaces

|  |             |                  |
|--|-------------|------------------|
| Size<br>A3                               | Number<br>5 | Revision<br>Rev2 |
| Date:<br>2020-01-29                      |             | Sheet 5 of 8     |
| File:<br>C:\Users\...\4_Interface.SchDoc |             | Drawn By:        |

A

A

B

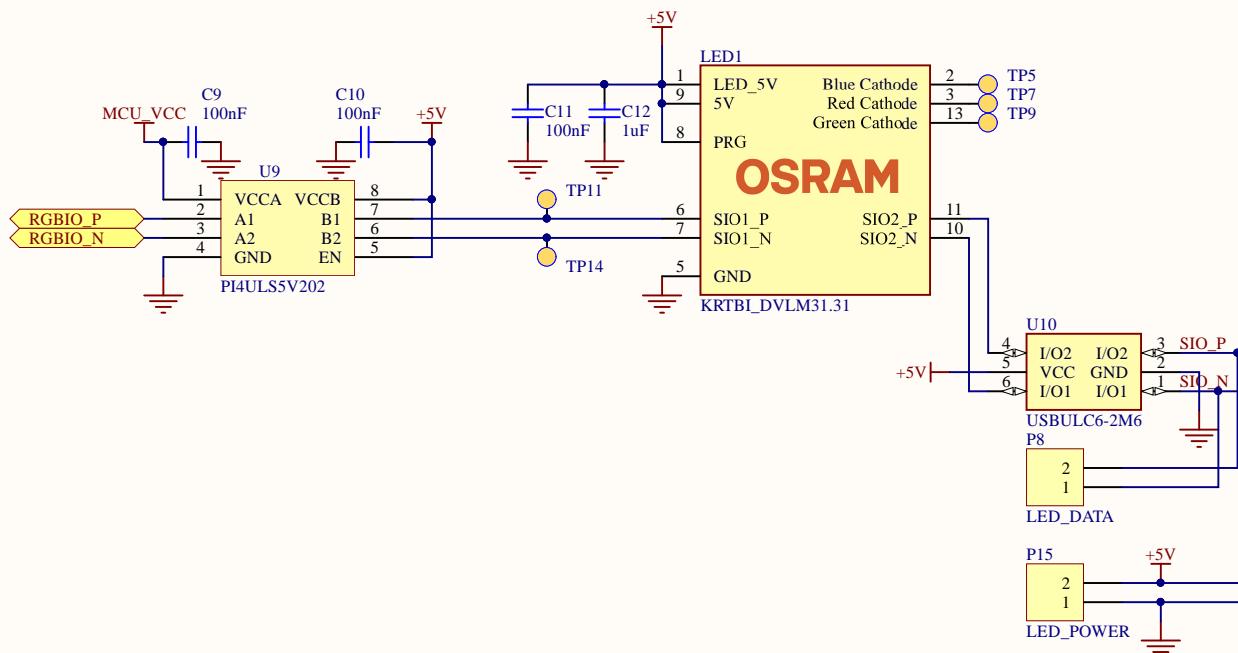
B

C

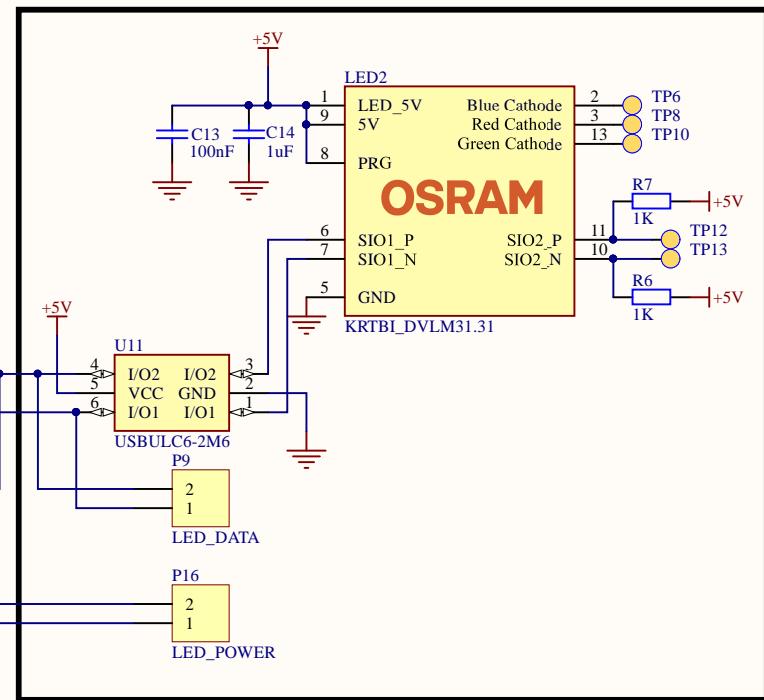
C

D

D



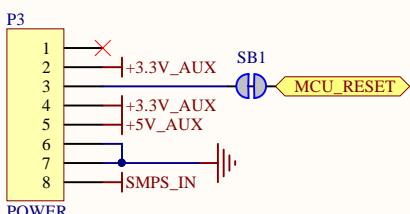
## Slave Board



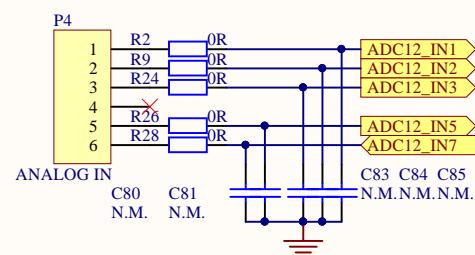
Title  
**OSRAM Osire LEDs**

|                                       |             |                  |
|---------------------------------------|-------------|------------------|
| Size<br>A4                            | Number<br>6 | Revision<br>Rev2 |
| Date:<br>2020-01-29                   |             | Sheet 6 of 8     |
| File:<br>C:\Users...\5_LED_RGB.SchDoc |             | Drawn By:        |

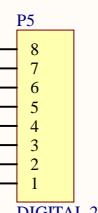
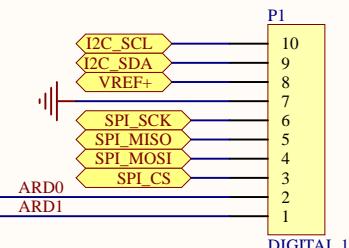
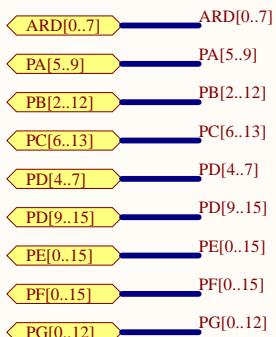
A



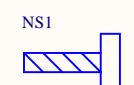
B



C



STANDOFF



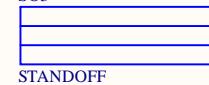
NYLON SCREW



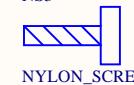
STANDOFF



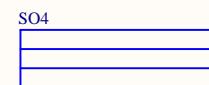
NYLON SCREW



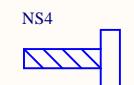
STANDOFF



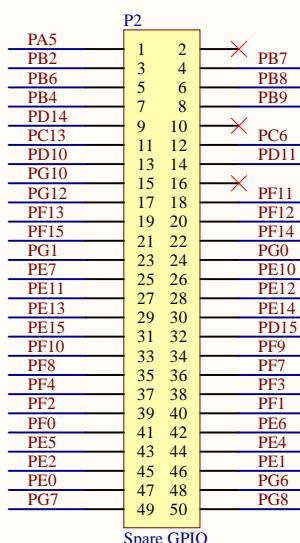
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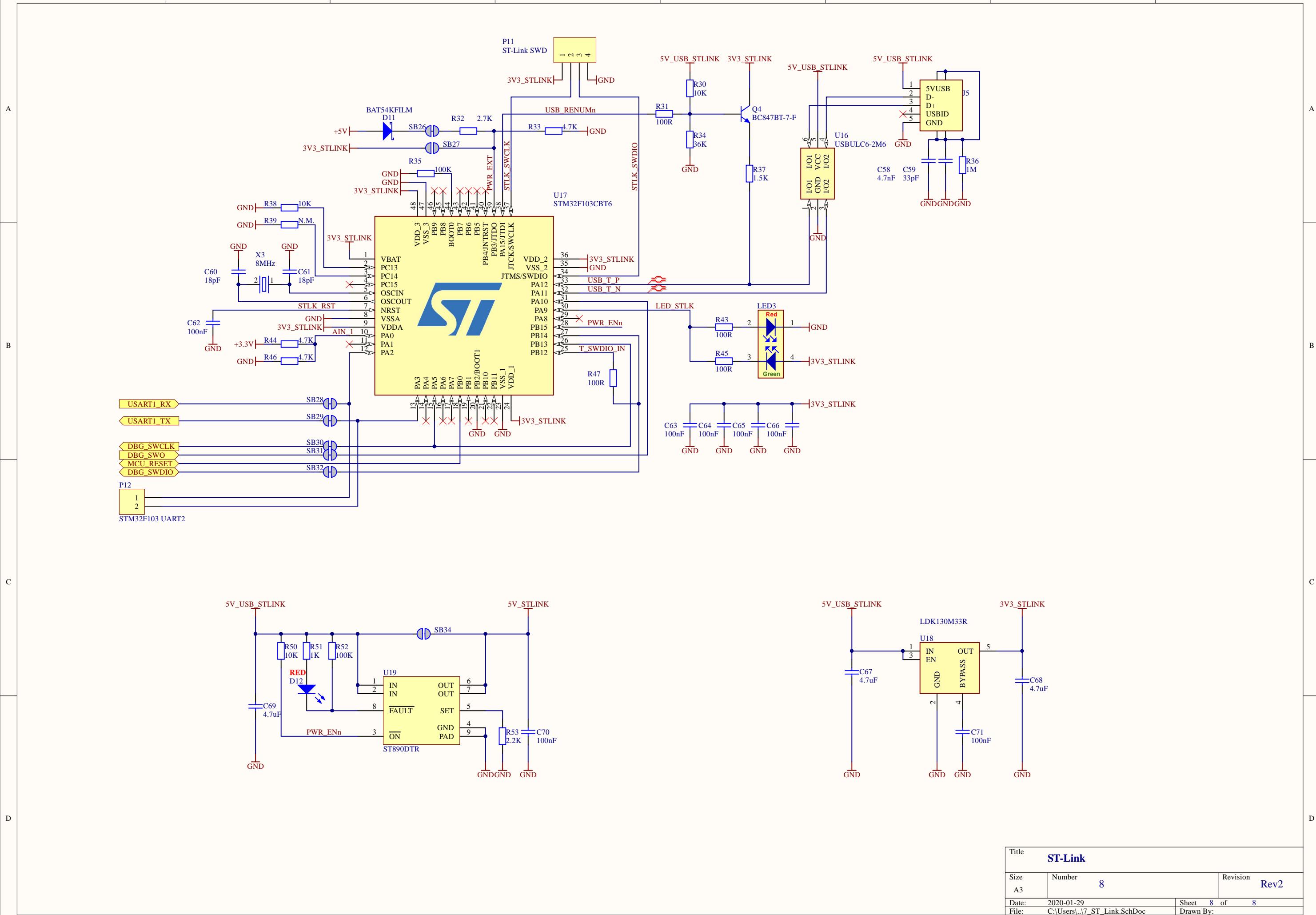
STANDOFF

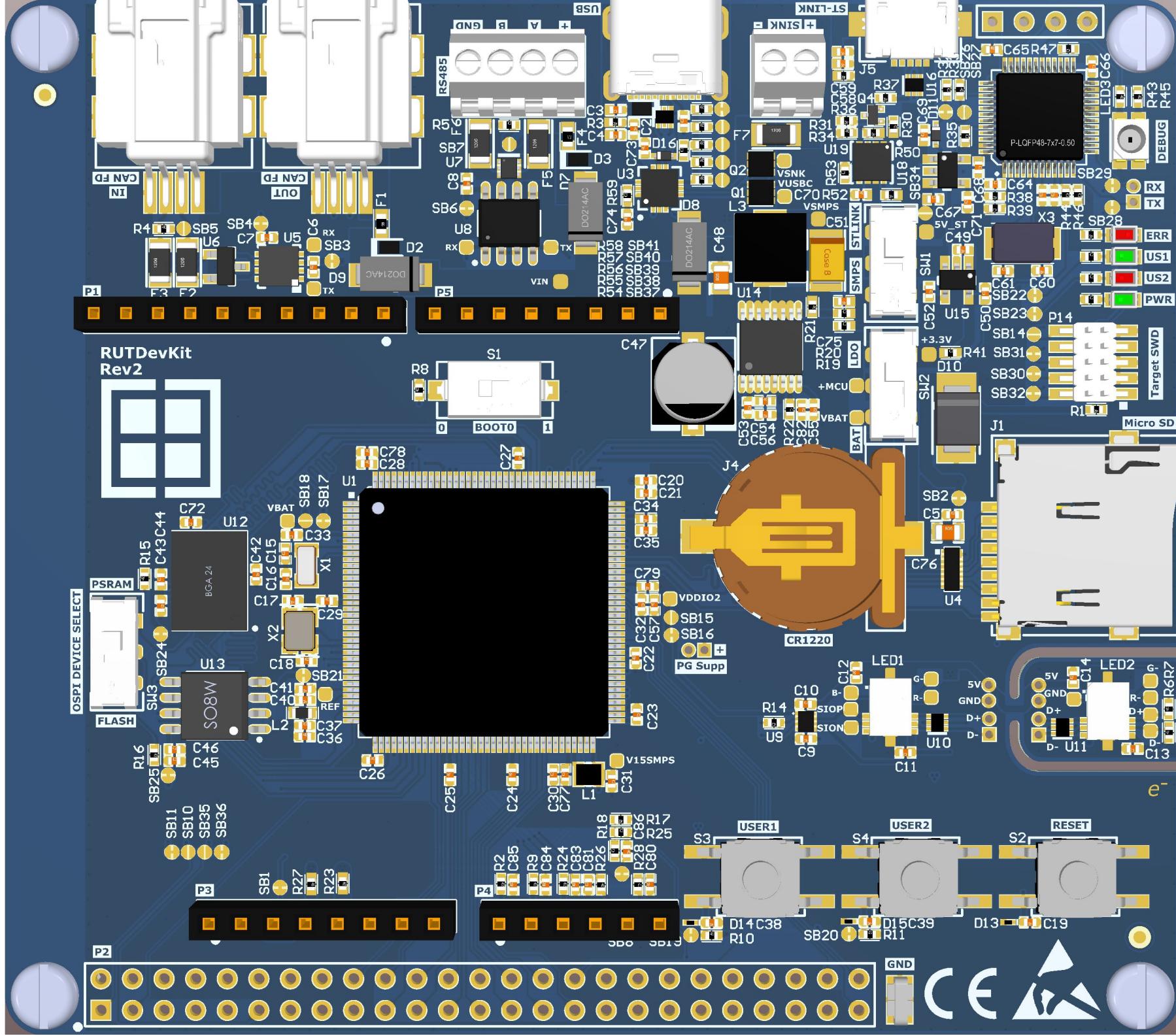


NYLON SCREW

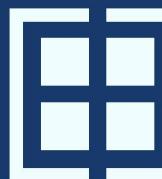


| Title              |                                 |              |
|--------------------|---------------------------------|--------------|
| Arduino Connectors |                                 |              |
| Size               | Number                          | Revision     |
| A4                 | 7                               | Rev2         |
| Date:              | 2020-01-29                      | Sheet 7 of 8 |
| File:              | C:\Users...\6_Connectors.SchDoc | Drawn By:    |





POWERED BY



**RUTRONIK**

ELECTRONICS WORLDWIDE

| P1 |          |
|----|----------|
| 1  | PD13     |
| 2  | PG15     |
| 3  | SPI_CS   |
| 4  | SPI_MOSI |
| 5  | SPI_MISO |
| 6  | SPI_SCK  |
| 7  | GND      |
| 8  | VREF+    |
| 9  | I2C_SDA  |
| 10 | I2C_SCL  |

| P3 |           |
|----|-----------|
| 1  | n.c.      |
| 2  | +3.3V     |
| 3  | MCU RESET |
| 4  | +3.3V     |
| 5  | +5V       |
| 6  | GND       |
| 7  | GND       |
| 8  | SMPS VIN  |

| P5 |            |
|----|------------|
| 1  | LPUART1_RX |
| 2  | LPUART1_TX |
| 3  | PF5        |
| 4  | PF6        |
| 5  | PG9        |
| 6  | PE3        |
| 7  | PE8        |
| 8  | PE9        |

| P4 |           |
|----|-----------|
| 1  | ADC12_IN1 |
| 2  | ADC12_IN2 |
| 3  | ADC12_IN3 |
| 4  | n. c.     |
| 5  | ADC12_IN5 |
| 6  | ADC12_IN7 |

| P2 |       |
|----|-------|
| 1  | PA5   |
| 2  | n. c. |
| 3  | PB2   |
| 4  | PB7   |
| 5  | PB6   |
| 6  | PB8   |
| 7  | PB4   |
| 8  | PB9   |
| 9  | PD14  |
| 10 | n. c. |
| 11 | PC13  |
| 12 | PC6   |
| 13 | PD10  |
| 14 | PD11  |
| 15 | PG10  |
| 16 | n. c. |
| 17 | PG12  |
| 18 | PF11  |
| 19 | PF13  |
| 20 | PF12  |
| 21 | PF15  |
| 22 | PF14  |
| 23 | PG1   |
| 24 | PG0   |
| 25 | PE7   |
| 26 | PE10  |
| 27 | PE11  |
| 28 | PE12  |
| 29 | PE13  |
| 30 | PE14  |
| 31 | PE15  |
| 32 | PD15  |
| 33 | PF10  |
| 34 | PF9   |
| 35 | PF8   |
| 36 | PF7   |
| 37 | PF4   |
| 38 | PF3   |
| 39 | PF2   |
| 40 | PF1   |
| 41 | PF0   |
| 42 | PE6   |
| 43 | PE5   |
| 44 | PE4   |
| 45 | PE2   |
| 46 | PE1   |
| 47 | PE0   |
| 48 | PG6   |
| 49 | PG7   |
| 50 | PG8   |



