

# OBJEX Link

## SB/uC

Sheet: SerialBridge



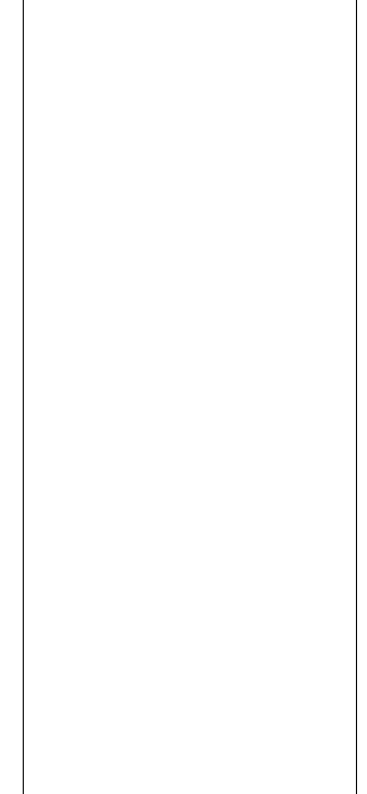
File: CP2104.sch

Sheet: Microcontroller



File: ESP32-PICO-D4.sch

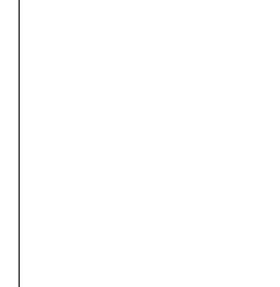
Sheet: I/O



File: IO.sch

## USB-C

Sheet: USB-C



File: USB-C\_Type2.0.sch

## POWER

Sheet: LDO



File: AP7361C-FGE-7.sch

Sheet: Battery Manager



File: MCP738331-AMI\_MF.sch

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Source location: <https://www.ohwr.org/project/wr-switch-hw>

As per CERN-OHL-W v2 section 4.1, should You produce hardware based on these sources, You must maintain the Source Location visible on the external case of the White Rabbit switch or other product you make using this documentation.

visit: [docs.objex.link](https://docs.objex.link)

Designer: Salvatore Raccardi

**OBJEX**

Sheet: /

File: OBJEX\_LINK-Rev1.6.sch

**Title: OBJEX Link**

Size: A4 Date: 2021-10-18

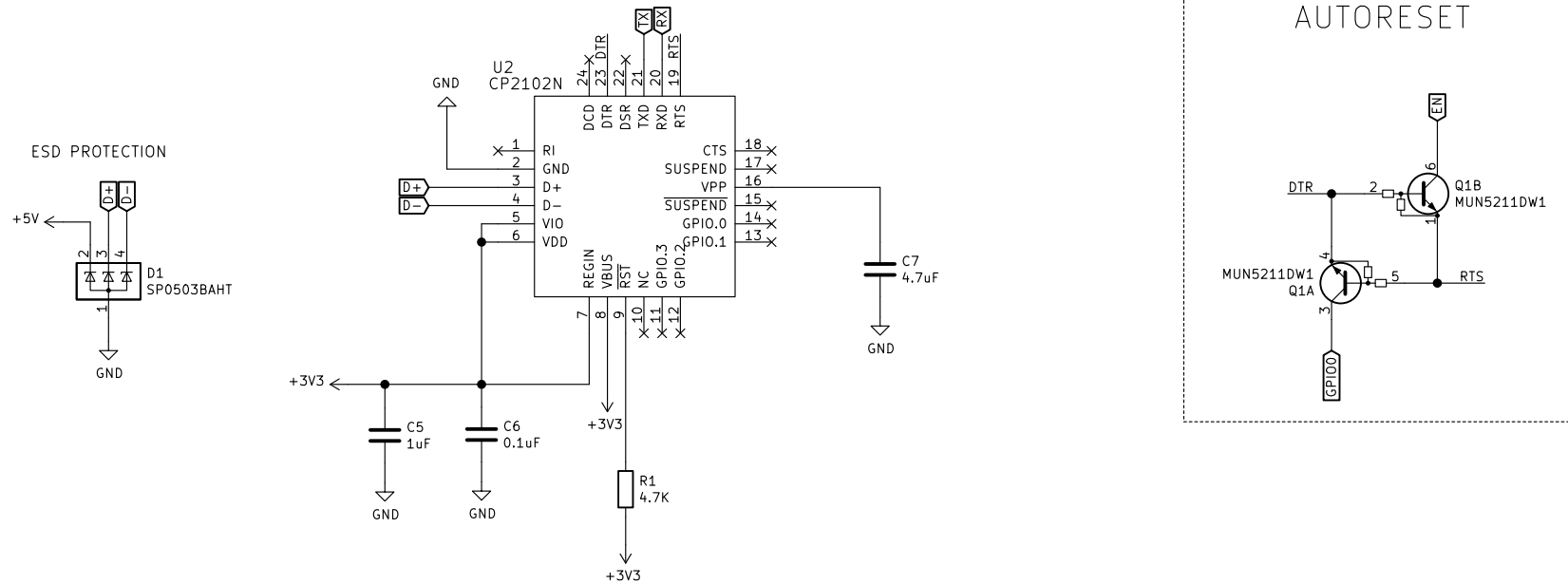
KiCad E.D.A. eeschema (5.1.10)-1

**Rev: 1.6**

Id: 1/7



# SERIAL BRIDGE



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Designer: Salvatore Raccardi

**OBJEX**

Sheet: /SerialBridge/

File: CP2104.sch

**Title: OBJEX Link**

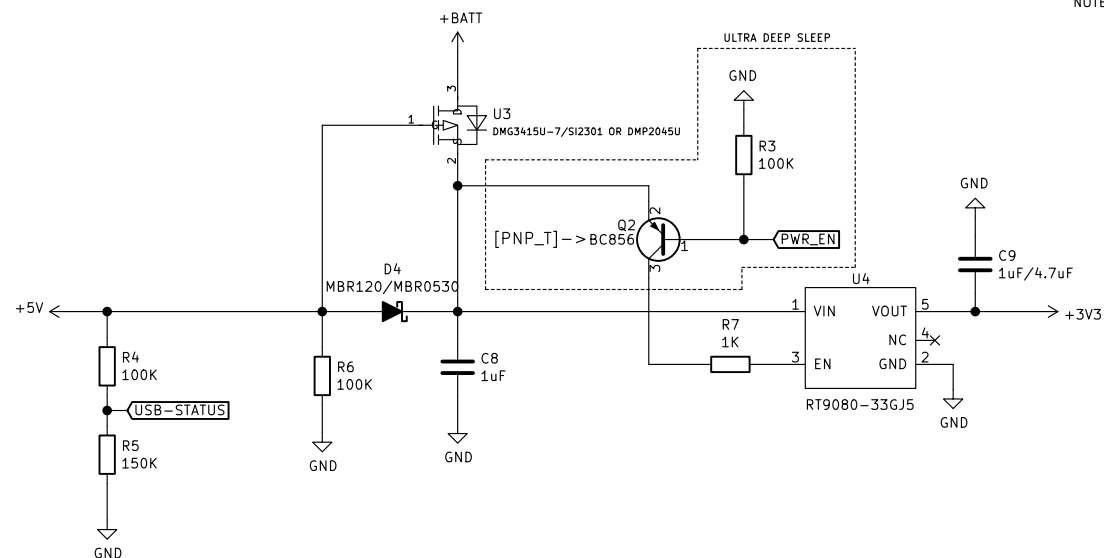
Size: A4 Date: 2021-10-18

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**Rev: 1.6**

Id: 3/7

# LDO



[PNP\_T]

1. Test to be completed, to choose the most suitable componet.  
 [!]Component to be changed

NOTE: Currently working correctly — but (off\_status: 40uA value too high)  
 | — NOTE: EN\_RT9080: OFF --> 3.2uA (MAX: 4.32uA)

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Designer: Salvatore Raccardi

**OBJEX**

Sheet: /LDO/

File: AP7361C-FGE-7.sch

**Title: OBJEX Link**

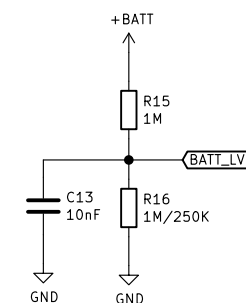
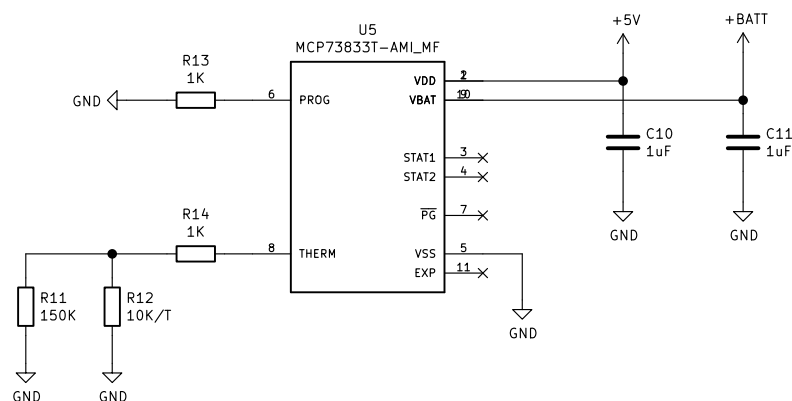
Size: A4 Date: 2021-10-18

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Id: 4/7

# BATTERY CHG



C13 to avoid high voltage spike from battery and noise/get false reading

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Source location: <https://www.ohwr.org/project/wr-switch-hw>

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Designer: Salvatore Raccardi

**OBJEX**

Sheet: /Battery Manager/

File: MCP73833T-AMI\_MF.sch

**Title: OBJEX Link**

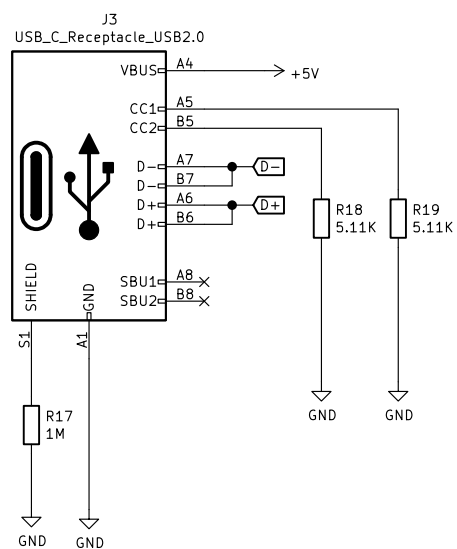
Size: A4 Date: 2021-10-18

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Id: 5/7

# USB-C TYPE 2.0



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Designer: Salvatore Raccardi

**OBJEX**

Sheet: /USB-C/

File: USB-C\_Type2.0.sch

**Title: OBJEX Link**

Size: A4 Date: 2021-10-18

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**Rev: 1.6**

Id: 6/7

