

Author: Vincent Nguyen

EPFL Xplore

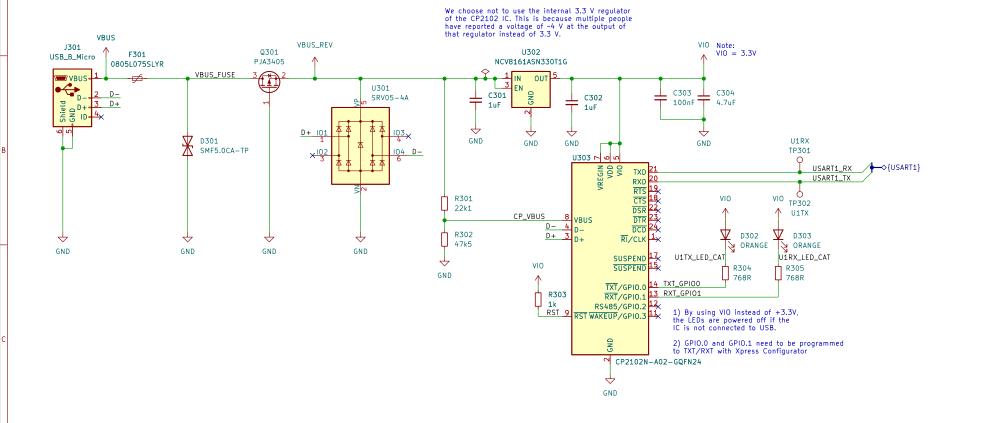
Sheet: /MCU/
File: MCU.kicad\_sch

Title: MCU

Size: A3 Date: Rev:

KiCad E.D.A. eeschema (6.0.8) Id: 2/11

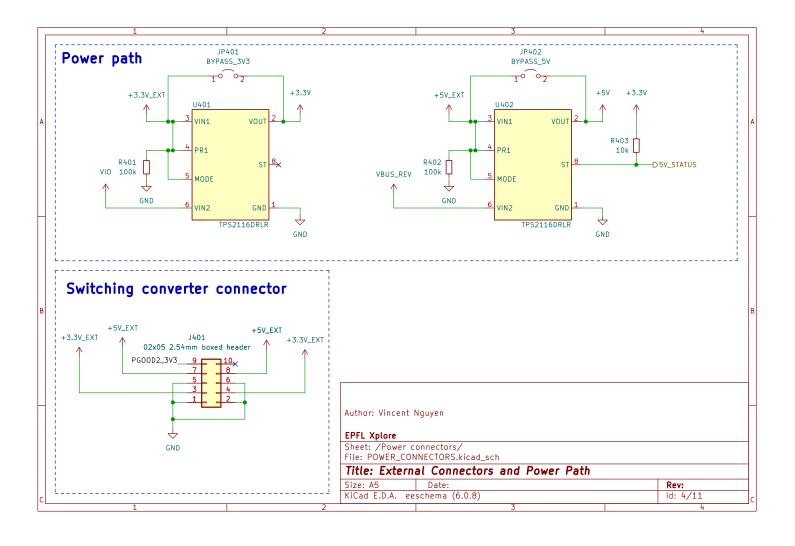
# USB to UART bridge



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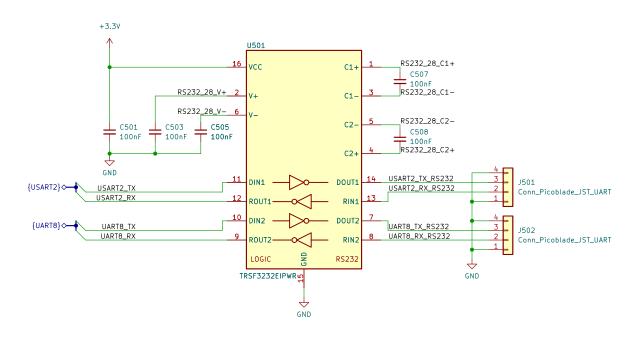
EPFL Xplore
Sheet: /USB to UART Bridge/
File: USB\_UART.kicad\_sch

Title: USB to UART Bridge
Size: A4 Date: Rev:
KiCad E.D.A. eeschema (6.0.8) Id: 3/11



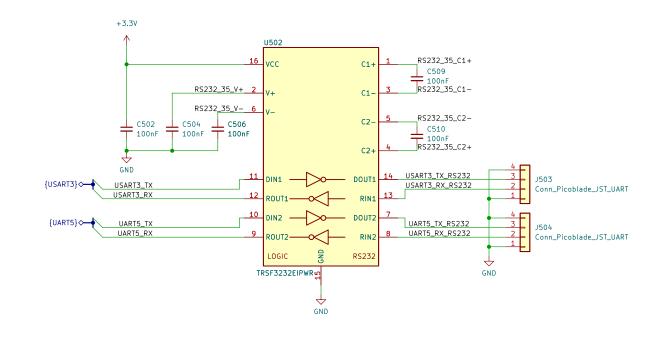
## RS232 Transceivers

USART2, USART8



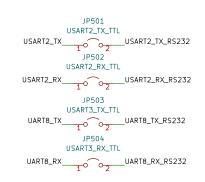
UART3, UART5

Maximum speed is 250 kb/s if using RS232 transceiver

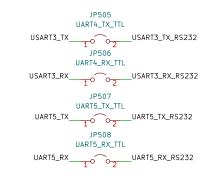


## **Jumpers**

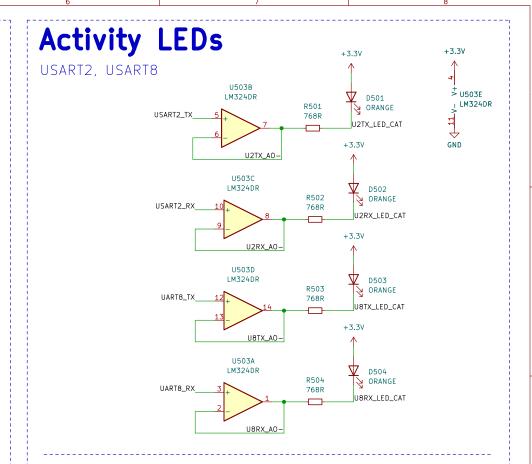
USART2, USART8

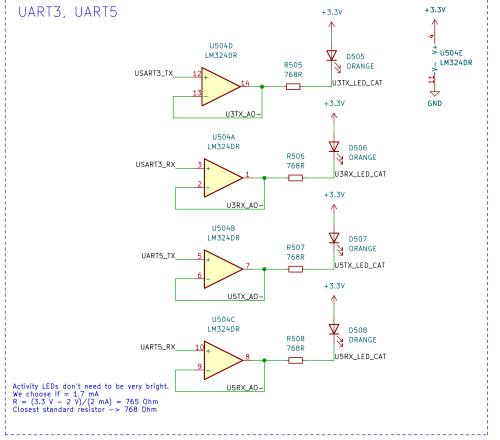


UART3, UART5



To use TTL voltage levels, short ALL of the jumpers for both nodes, for the corresponding UART buses.





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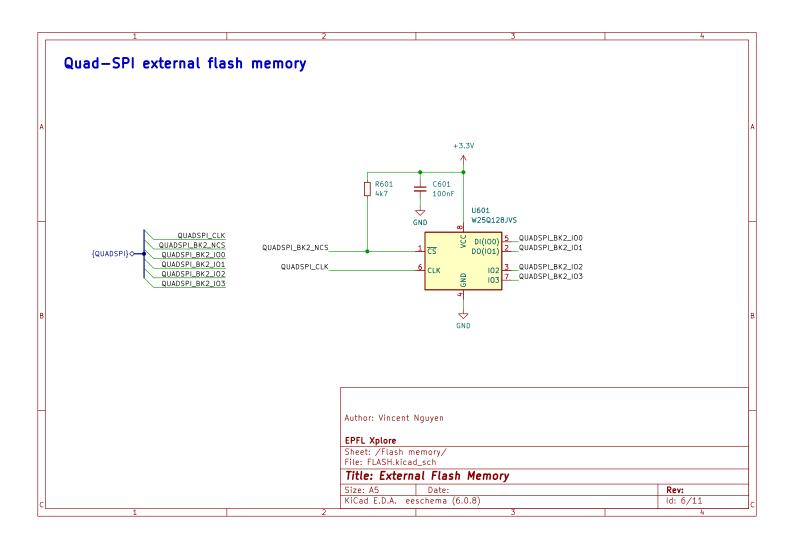
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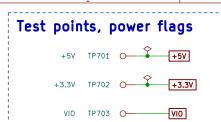
Sheet: /Node to node connectors/
File: NODE\_CONNECTORS.kicad\_sch

Title: RS232 UART Node to Node Connectors

Size: A3 Date: Rev:

KiCad E.D.A. eeschema (6.0.8) Id: 5/11





GND TP704 O GND

+3.3V\_EXT

### Mounting holes

- H701 MountingHole
- H705 MountingHole
- MountingHole
- MountingHole
- MountingHole
- MountingHole
- MountingHole
- MountingHole

### Logos



## **EPFL**

### maxon





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Sheet: /Mechanical elements, testpoints, logos/ File: MECHANICAL\_TP\_LOGO.kicad\_sch

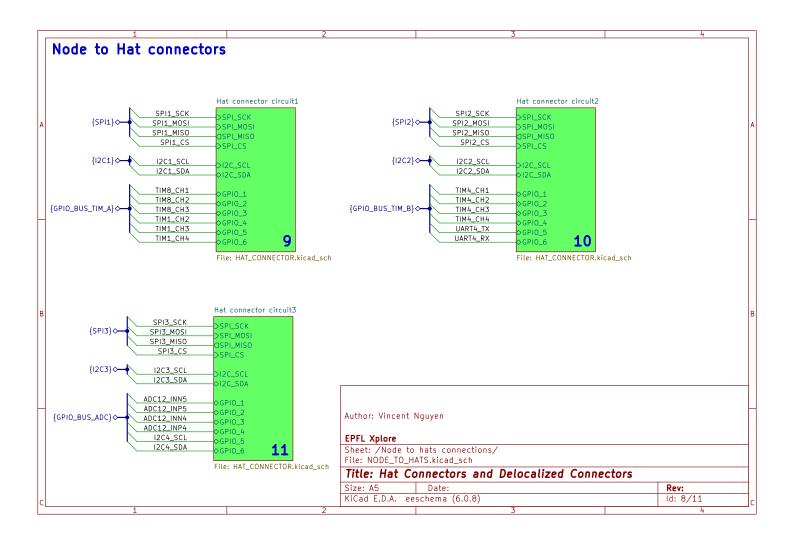
#### Title: Mechanical Elements and Test Points

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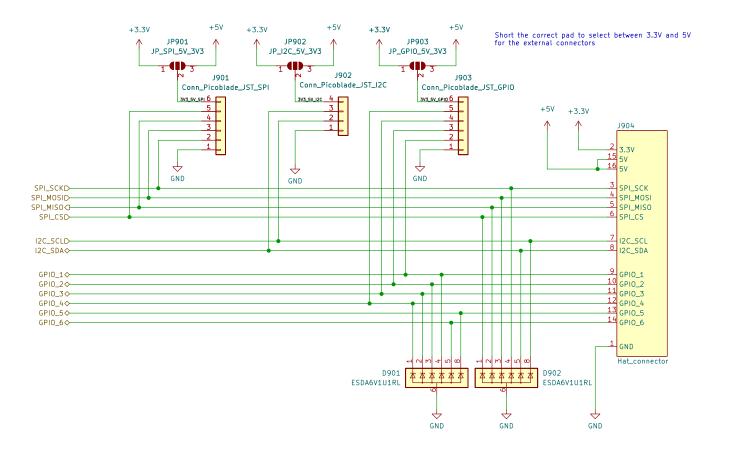
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### Hat connector



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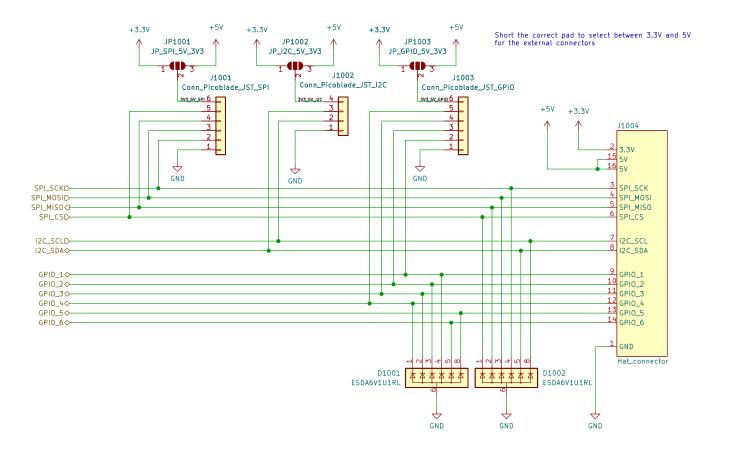
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Sheet: /Node to hats connections/Hat connector circuit1/
File: HAT\_CONNECTOR.kicad\_sch

Title: Hat Connector

Size: A4 Date: Rev:
KiCad E.D.A. eeschema (6.0.8) Id: 9/11

### Hat connector



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Sheet: /Node to hats connections/Hat connector circuit2/
File: HAT\_CONNECTOR.kicad\_sch

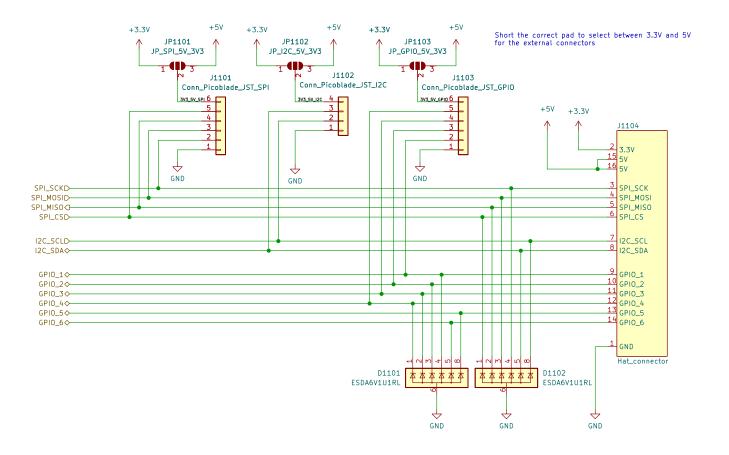
Title: Hat Connector

Size: A4 Date:

KiCad E.D.A. eeschema (6.0.8)

Id: 10/11

### Hat connector



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Sheet: /Node to hats connections/Hat connector circuit3/
File: HAT\_CONNECTOR.kicad\_sch

Title: Hat Connector

Size: A4 Date:

KiCad E.D.A. eeschema (6.0.8)

Id: 11/11