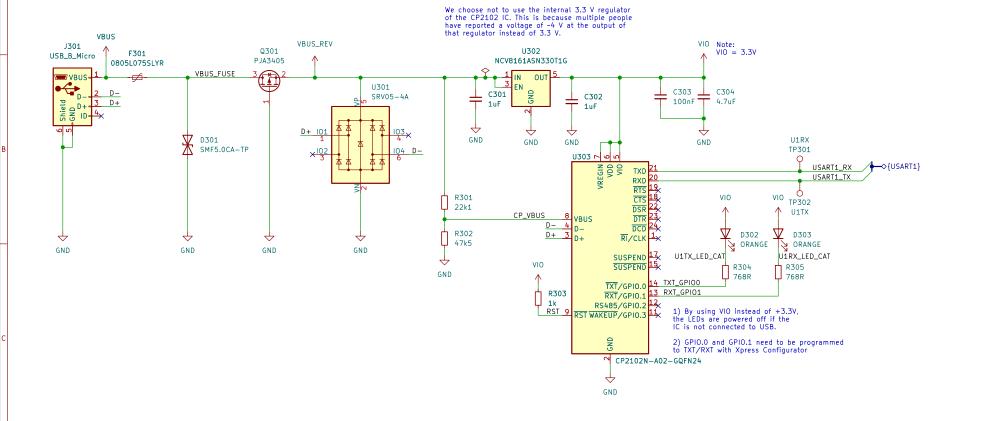


Author: Vincent Nguyen					
EPFL Xplore					
Sheet: /MCU/					
File: MCU.kicad_sch					
Title: MCU					
Size: A3 Date:	Rev:				
KiCad E.D.A. kicad (6.0.8)	ld: 2/11				

# USB to UART bridge



Author: Vincent Nguyen

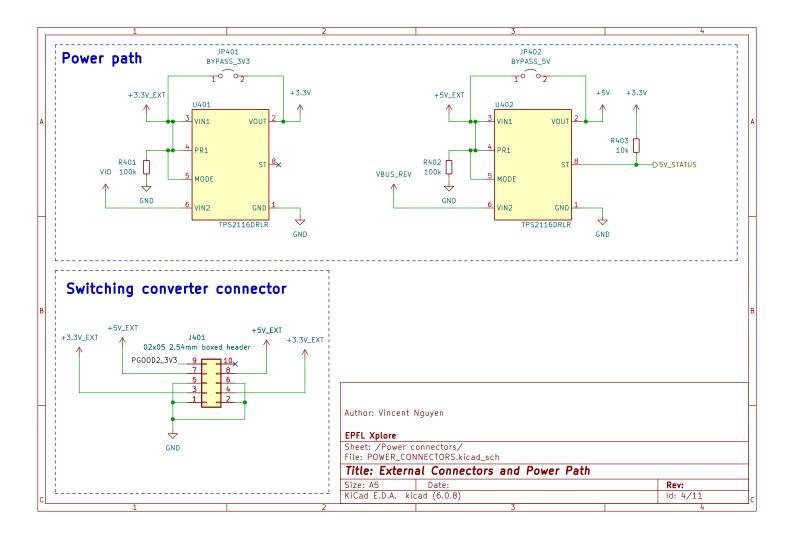
EPFL Xplore

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

Title: USB to UART Bridge

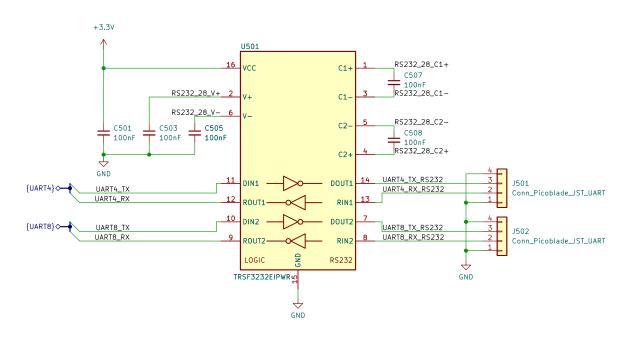
Size: A4 Date: Rev:

KiCad E.D.A. kicad (6.0.8) Id: 3/11



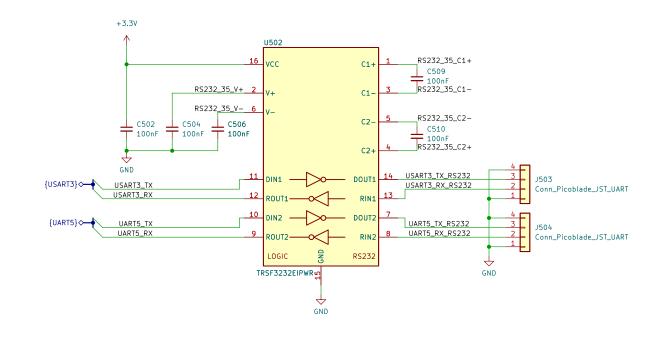
## **RS232 Transceivers**

USART2, USART8



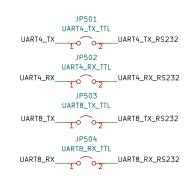
UART3, UART5

Maximum speed is 250 kb/s if using RS232 transceiver

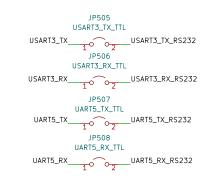


## **Jumpers**

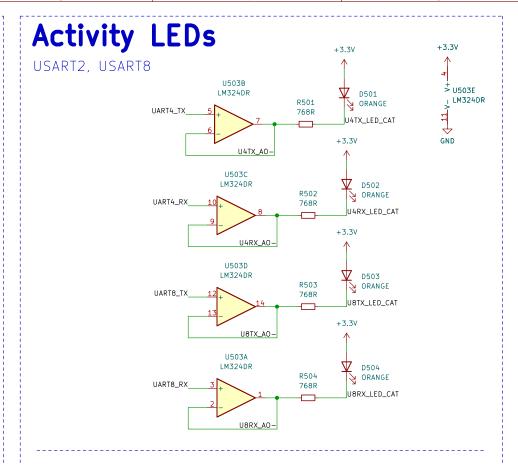
UART4, USART8

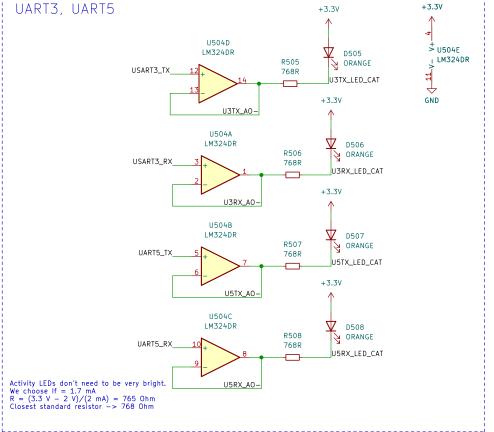


USART3, UART5



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





Author: Vincent Nguyen

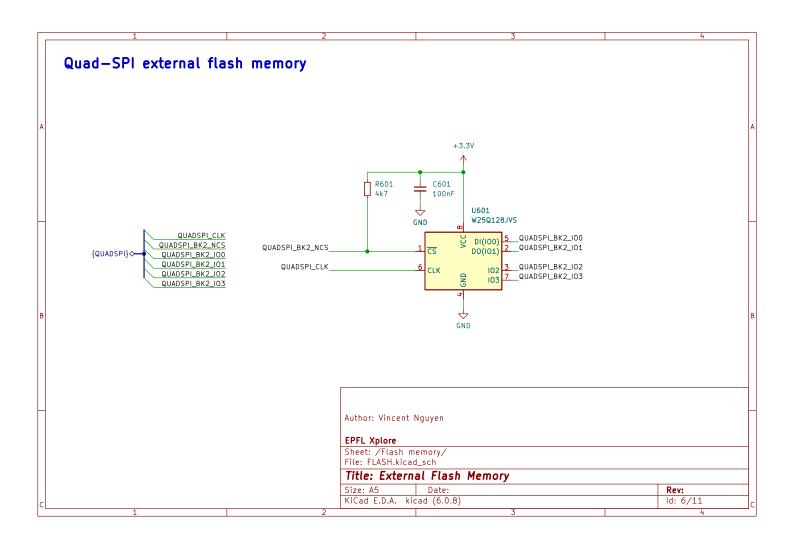
EPFL Xplore

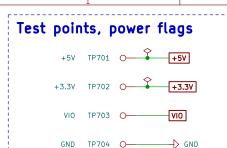
Sheet: /Node to node connectors/
File: NODE\_CONNECTORS.kicad\_sch

Title: RS232 UART Node to Node Connectors

Size: A3 Date: Rev:

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





+5V\_EXT TP706 - +5V\_EXT

### Mounting holes

- H701 MountingHole
- MountingHole

+3.3V\_EXT

- MountingHole
- MountingHole
- H703 MountingHole
- MountingHole
- MountingHole
- MountingHole

#### Logos



**EPFL** 

### maxon





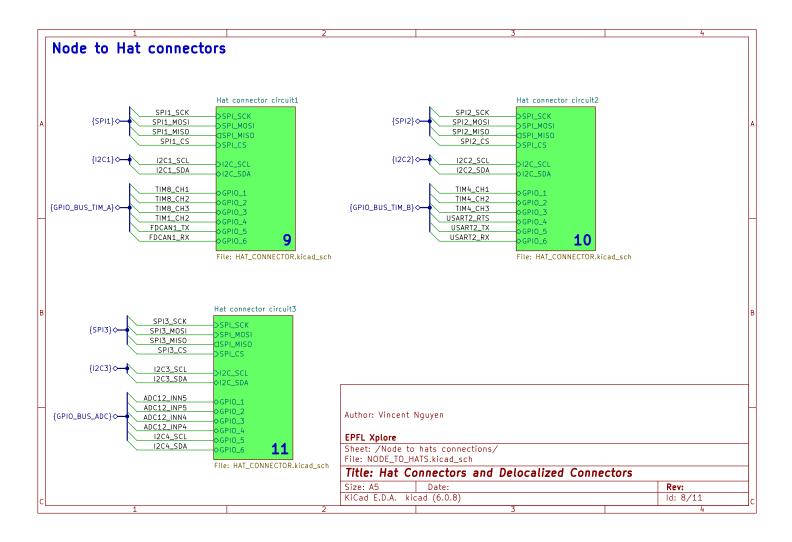
Author: Vincent Nguyen

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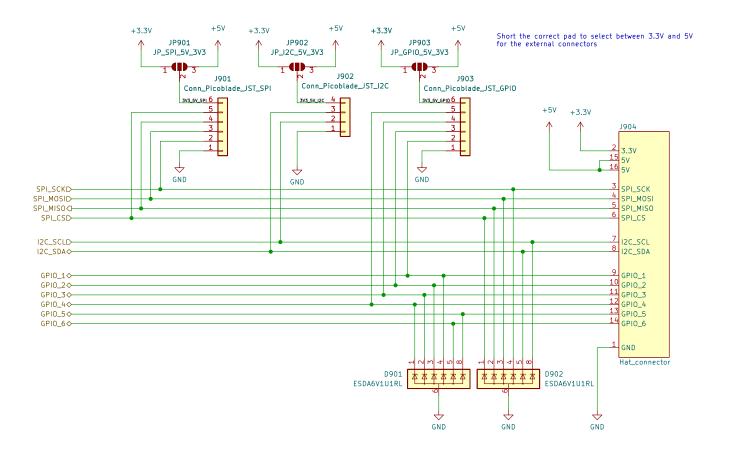
Sheet: /Mechanical elements, testpoints, logos/ File: MECHANICAL\_TP\_LOGO.kicad\_sch

#### Title: Mechanical Elements and Test Points

	Size: A5	Date:		Rev:	
	KiCad E.D.A. kid	ad (6.0.8)		ld: 7/11	
_			7	- 1.	_



### Hat connector



Author: Vincent Nguyen

EPFL Xplore

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

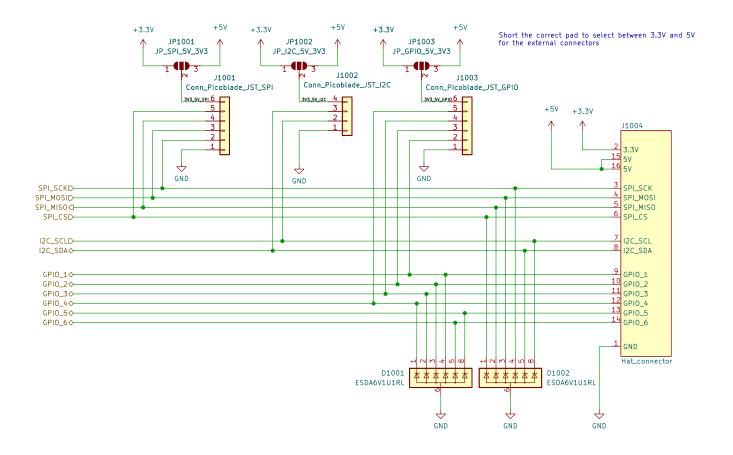
Title: Hat Connector

Size: A4 Date: Rev:

ld: 9/11

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### Hat connector



Author: Vincent Nguyen

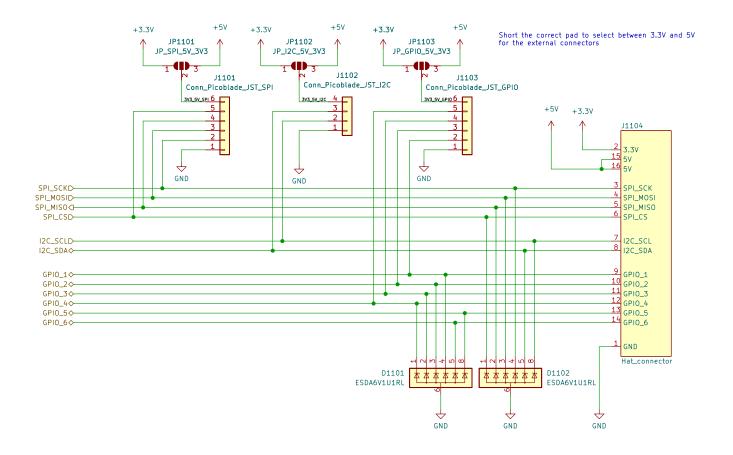
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Sheet: /Node to hats connections/Hat connector circuit2/
File: HAT\_CONNECTOR.kicad\_sch

Title: Hat Connector

Size: A4 Date: Rev:
KiCad E.D.A. kicad (6.0.8) Id: 10/11

### Hat connector



Author: Vincent Nguyen

EPFL Xplore

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

Title: Hat Connector

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