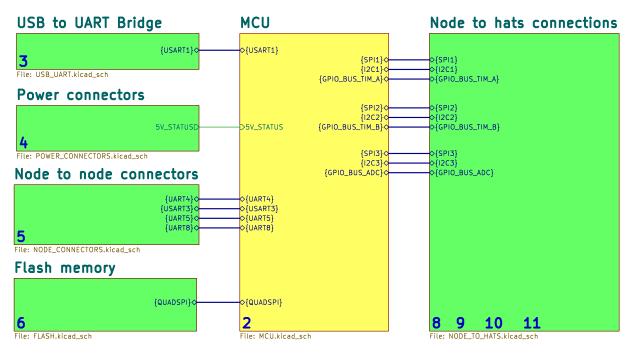
# Orion PCB node overview



#### Mechanical elements, testpoints, logos

7
File: MECHANICAL\_TP\_LOGO.kicad\_sch

Author: Vincent Nguyen

EPFL Xplore

Sheet: /

File: orion\_pcb.kicad\_sch

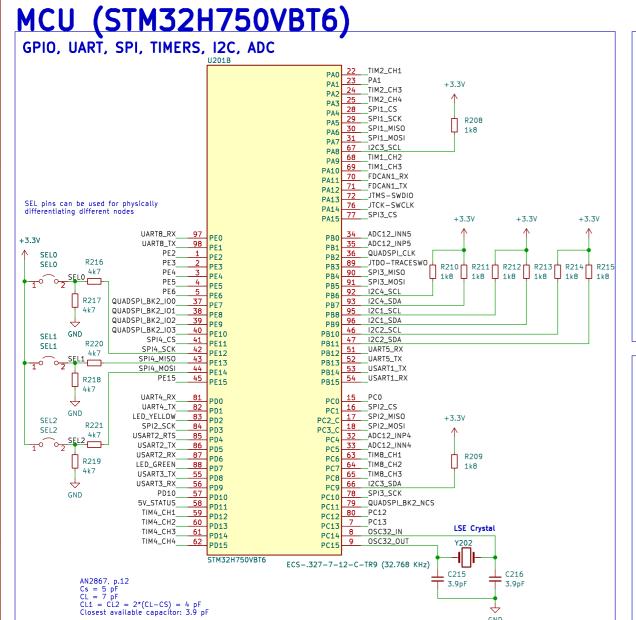
Title: Orion PCB Node Overview

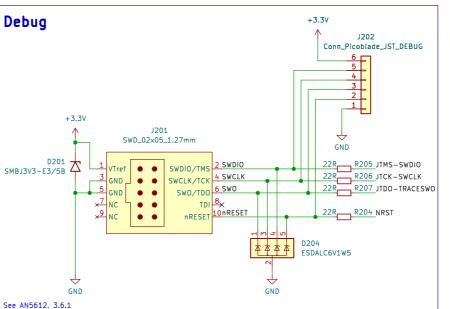
 Size: A4
 Date:
 Rev: 3

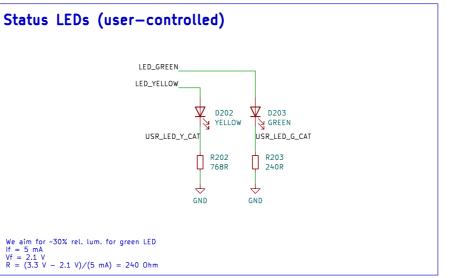
 KiCad E.D.A. kicad 7.0.1
 Id: 1/11

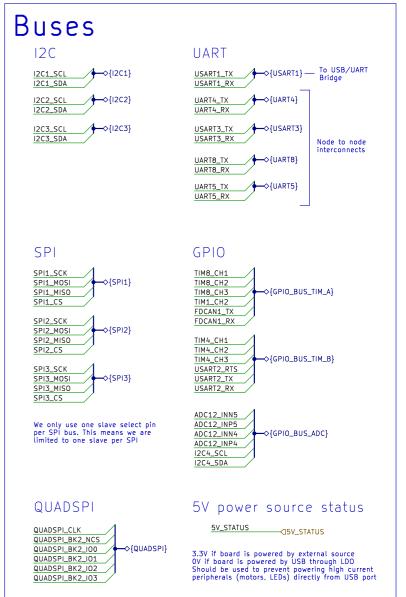
1

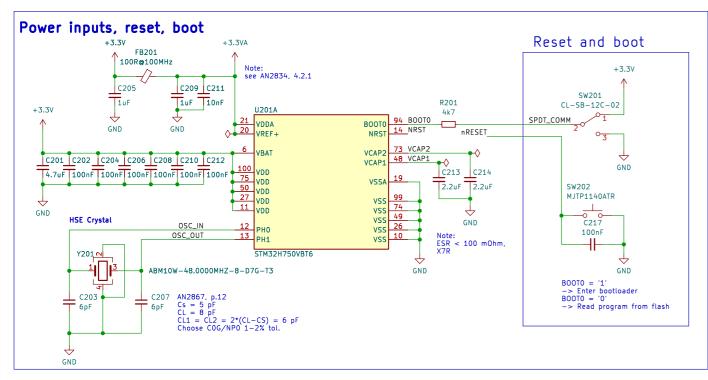
3

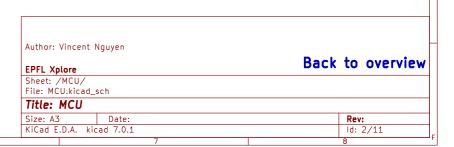




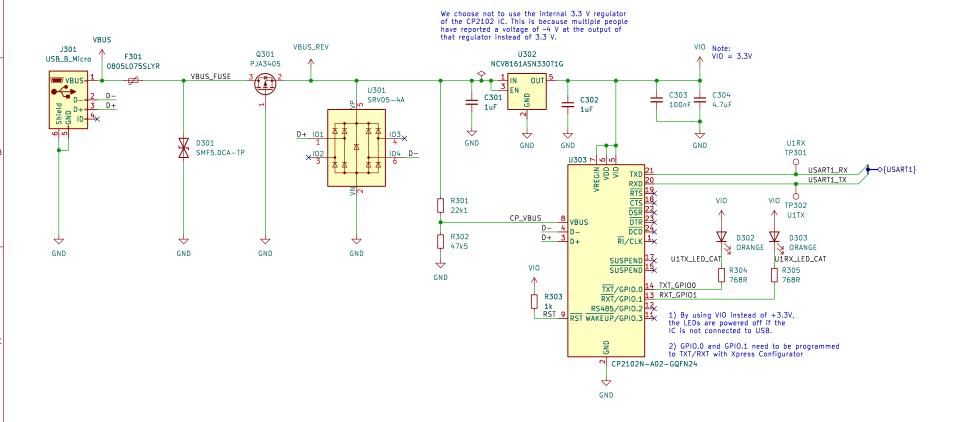








## USB to UART bridge



Author: Vincent Nguyen

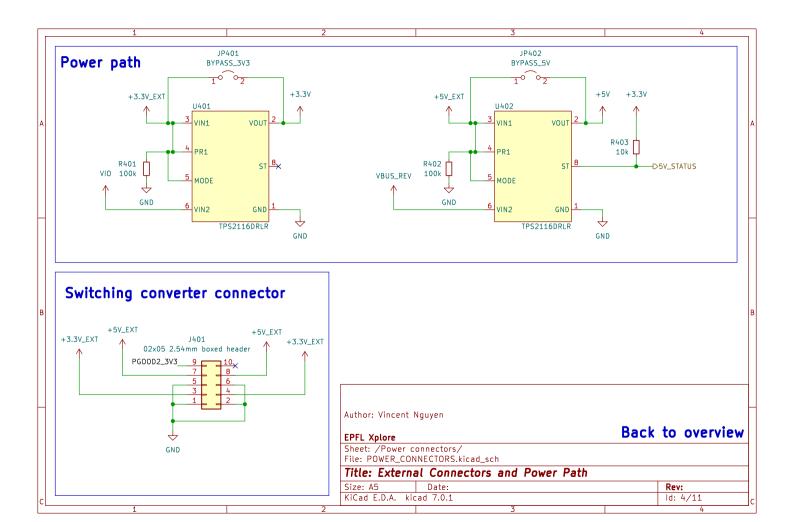
EPFL Xplore

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

Title: USB to UART Bridge

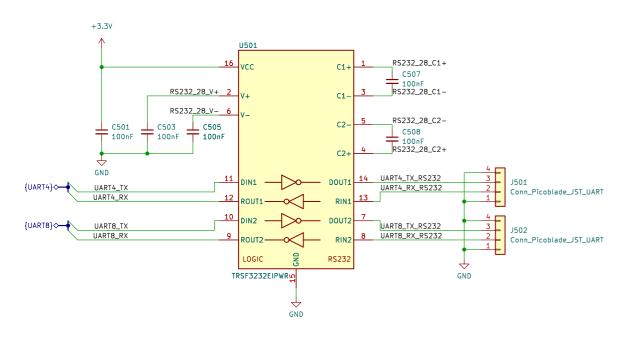
Size: A4 Date: Rev:

KICAG E.D.A. kicad 7.0.1 Id: 3/11



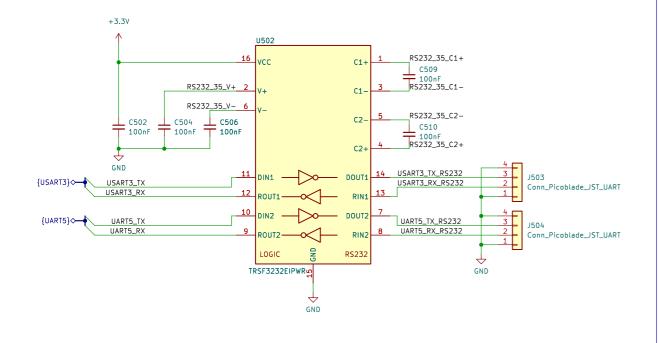
## **RS232 Transceivers**

UART4, USART8



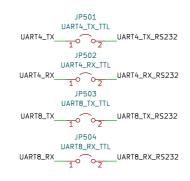
UART3, UART5

Maximum speed is 250 kb/s if using RS232 transceiver

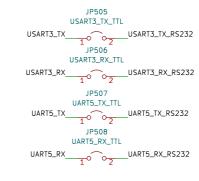


## **Jumpers**

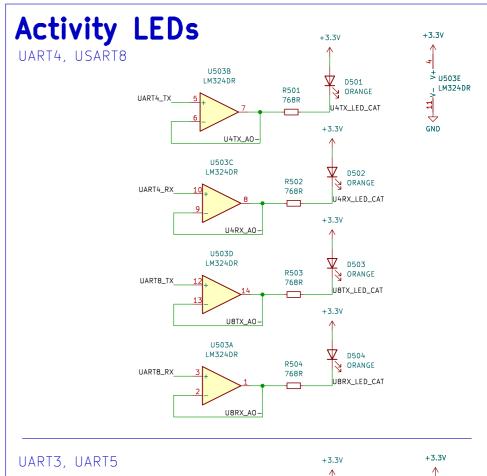
UART4, USART8

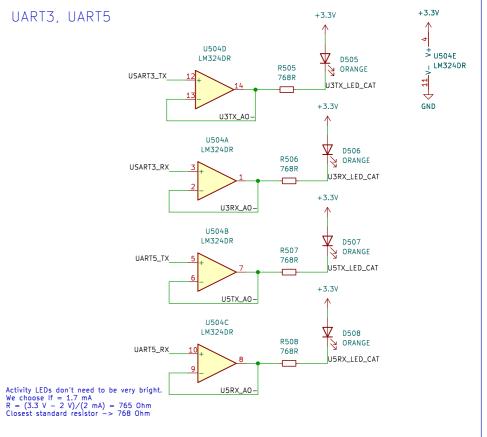


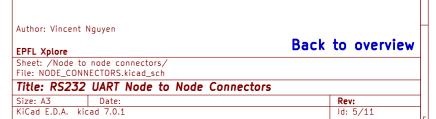
USART3, UART5

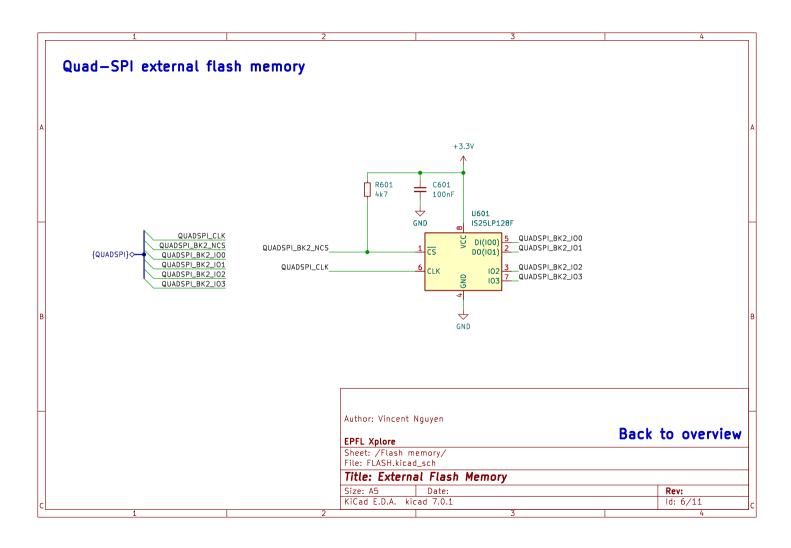


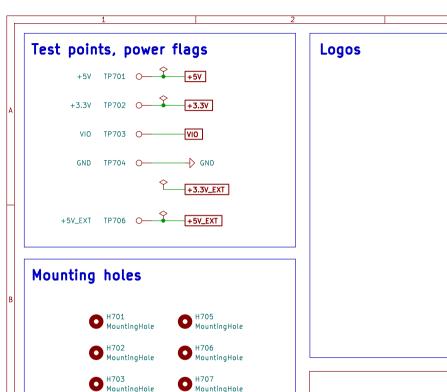
To use TTL voltage levels, short ALL of the jumpers for both nodes, for the corresponding UART buses.





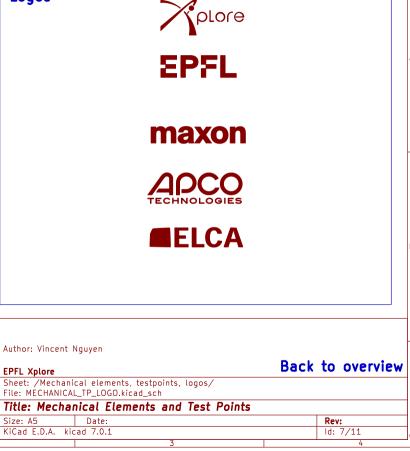


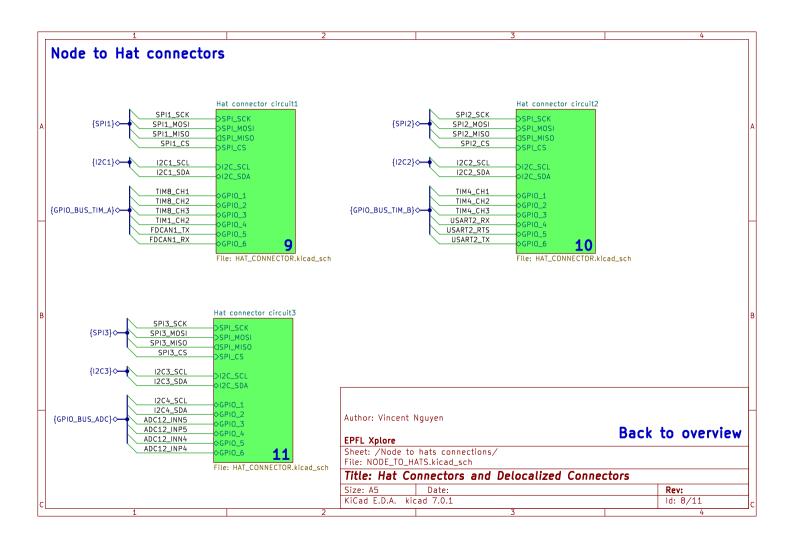




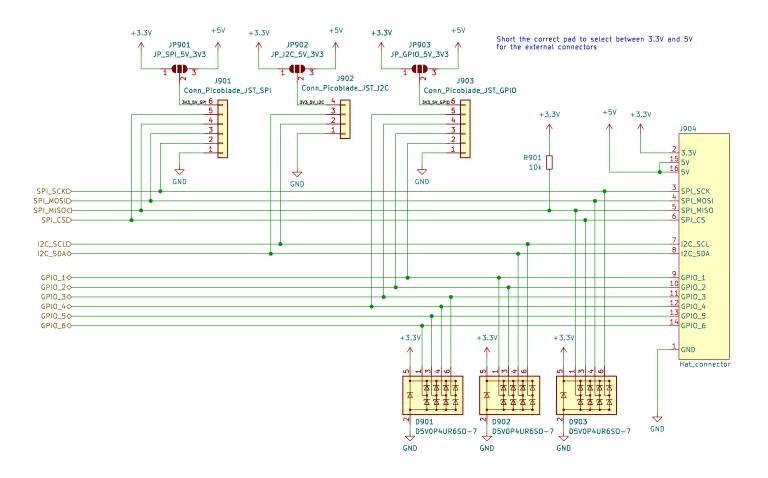
MountingHole

MountingHole

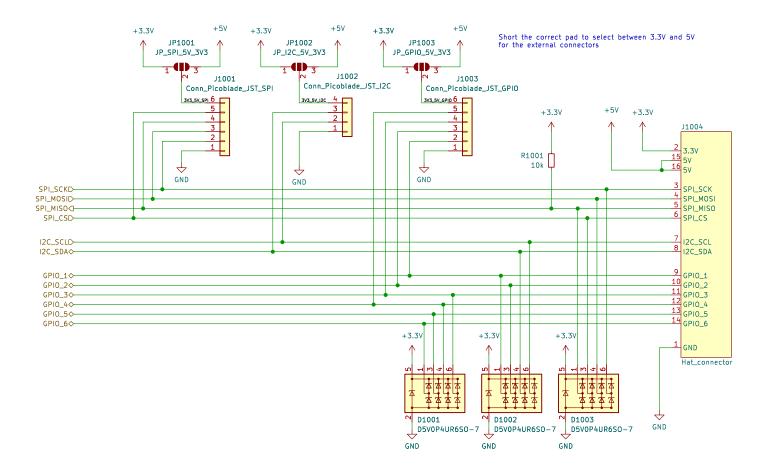




## Hat connector



## Hat connector



Author: Vincent Nguyen

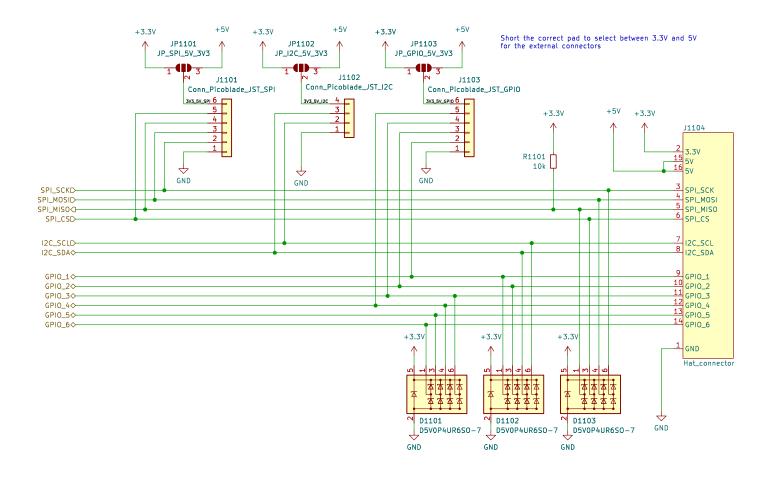
EPFL Xplore

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 7.0.1 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 7.0.1 Id: 11/11