

LightPipe

- Part 2: Hardware -



HansAchterbahn @ Neotopia

Buntes Licht in Röhren



- 3x 16 RGB LEDs
- alle individuell adressierbar

Übersicht

Input PCB

- 2x Klinke Buchse
- 1x XT30 Stecker

3x APA102 LED-Strips

Output PCB

~ Input PCB

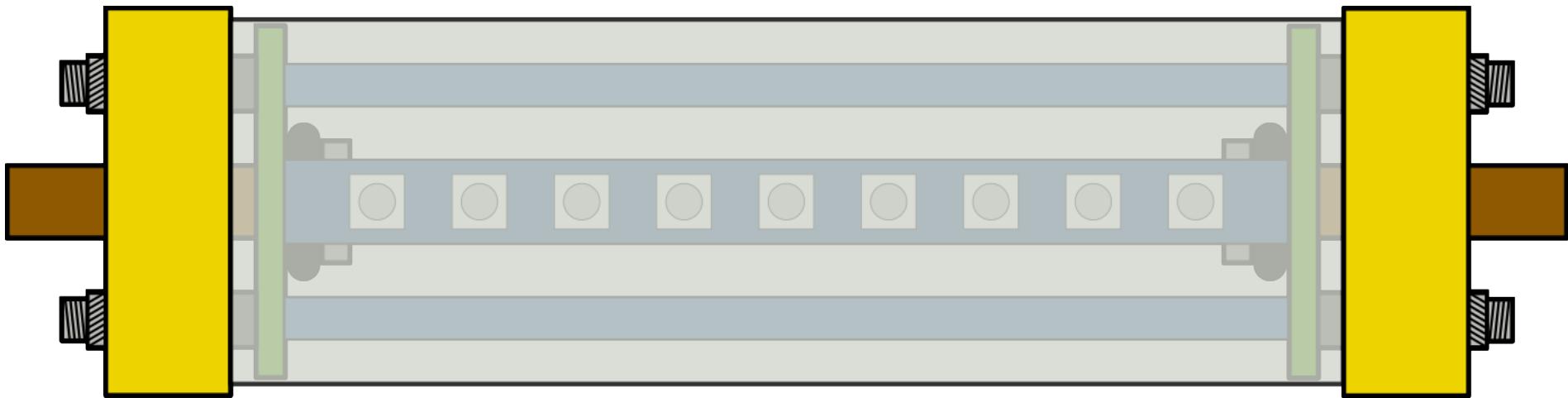
~ Output PCB

1x Mittelsteg

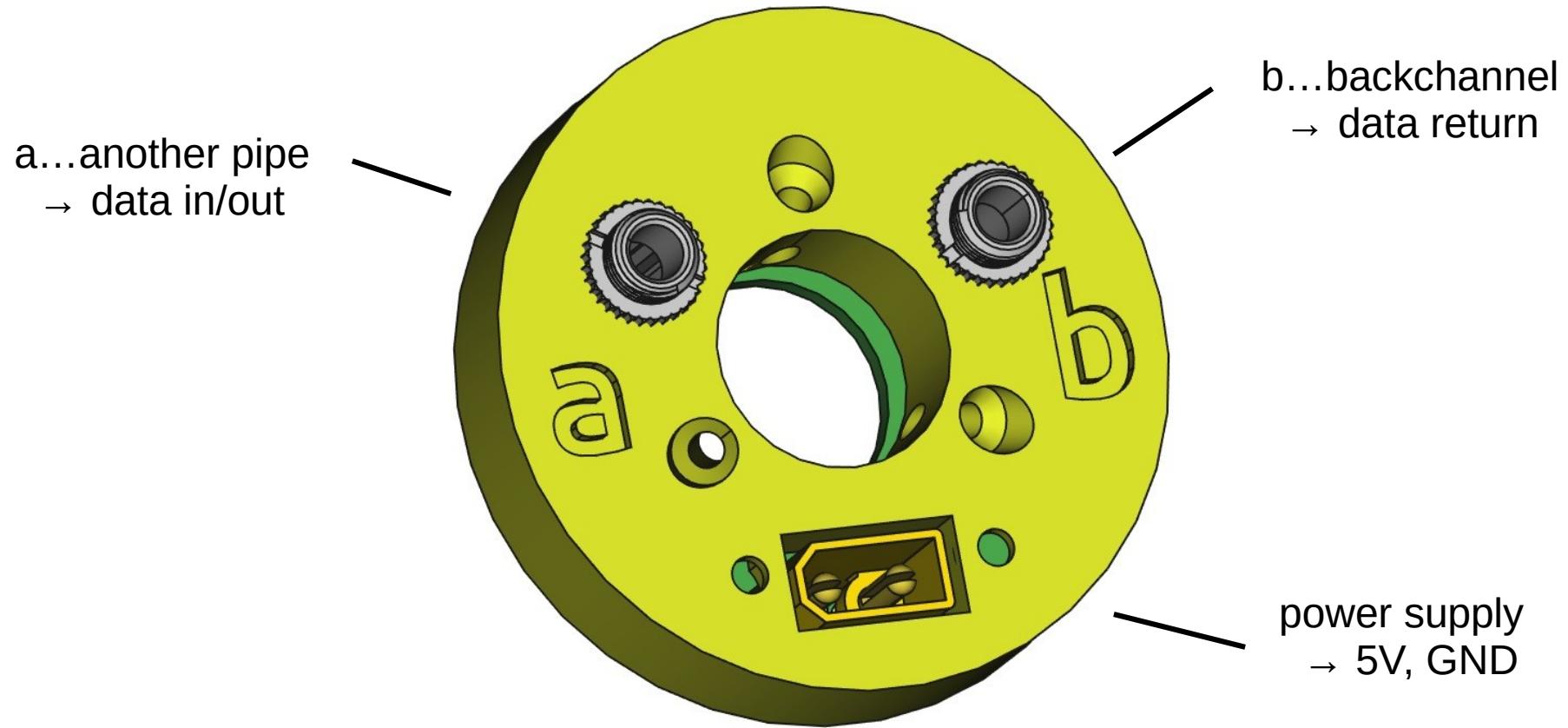
1x Acryl Rohr

2x Endcaps

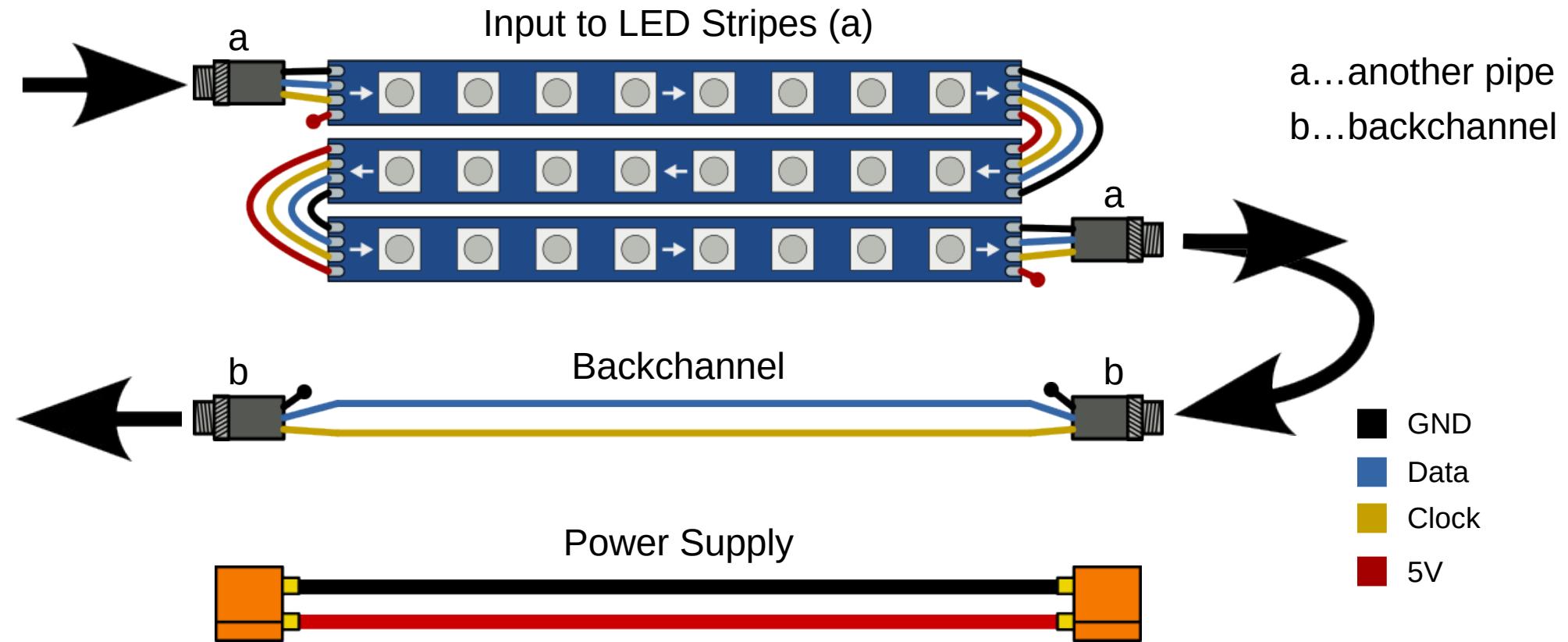
Mechanischer Aufbau



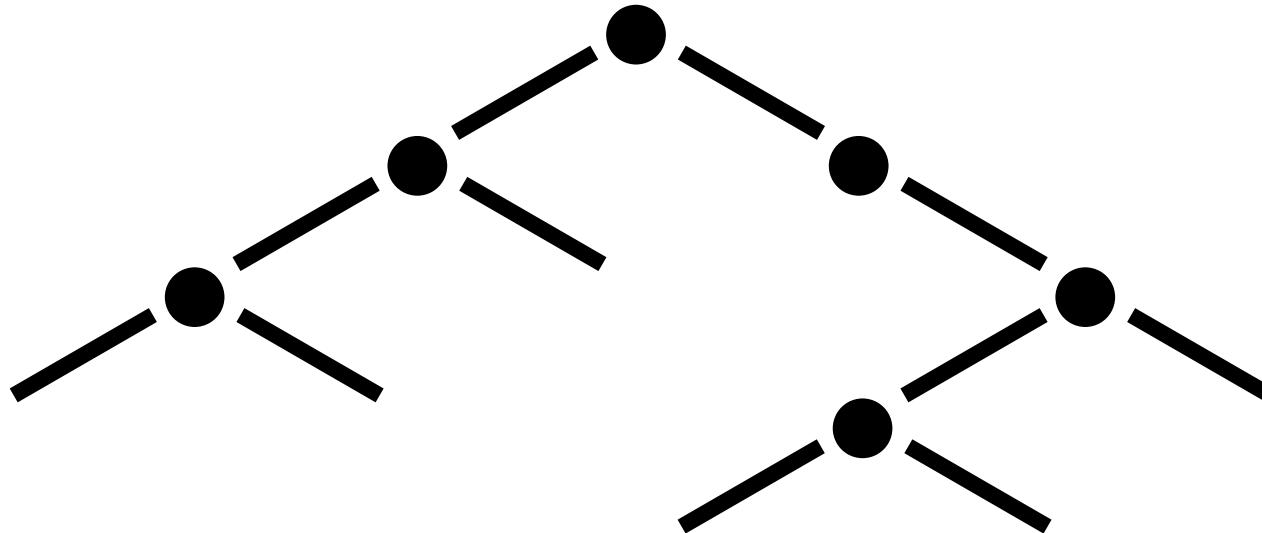
Top- / Bottom-View



Elektronischer Aufbau

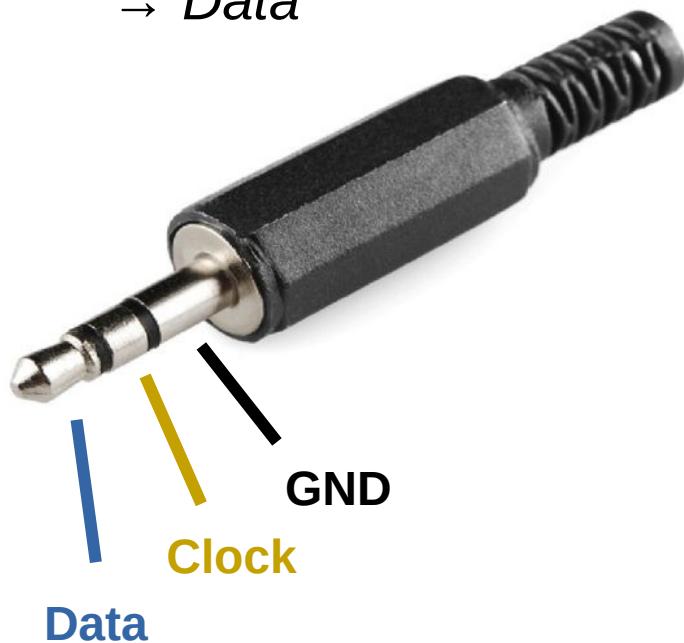


Verkettung / Strukturen

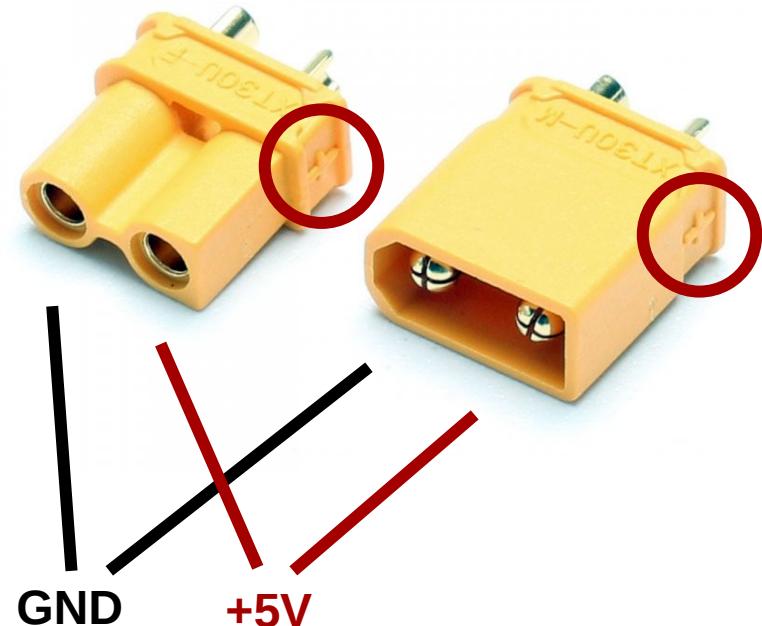


Plugs

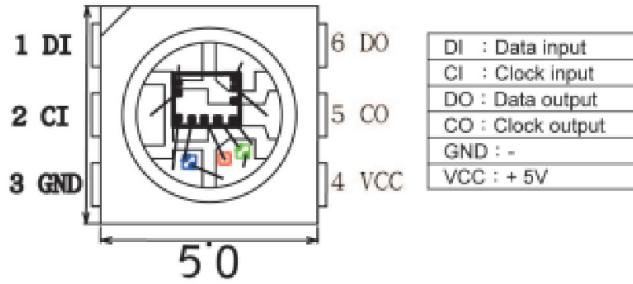
Audio Jack
→ Data



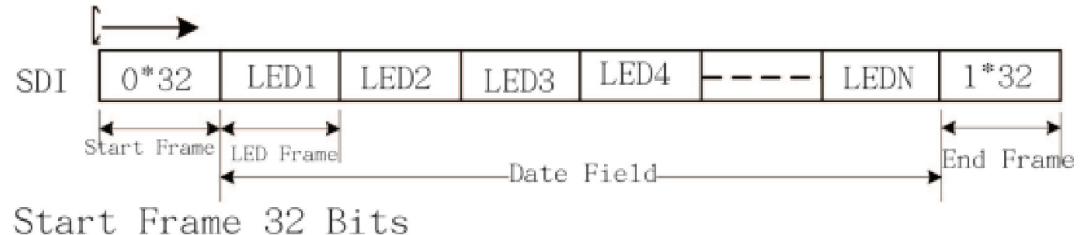
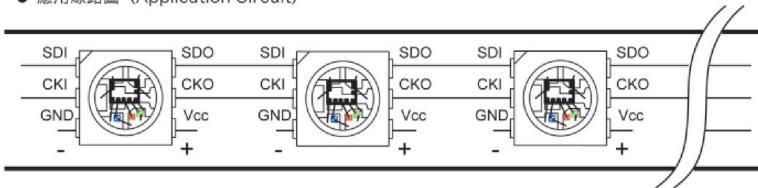
XT30
→ Power Supply



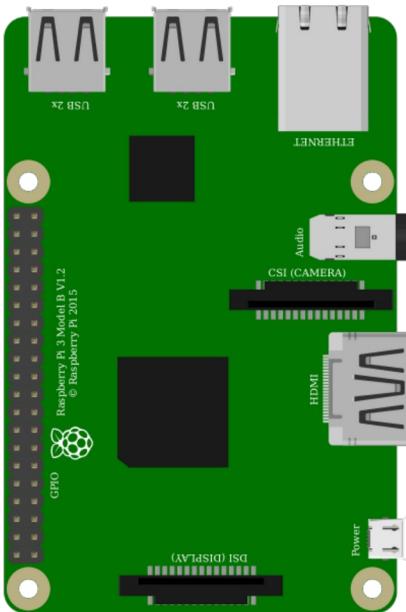
APA102 LED



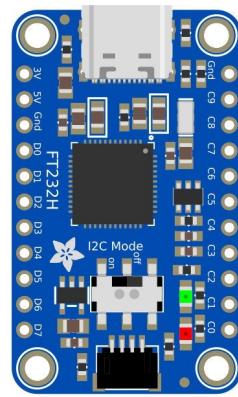
- 應用線路圖 (Application Circuit)



Interfaces



Raspberry Pi

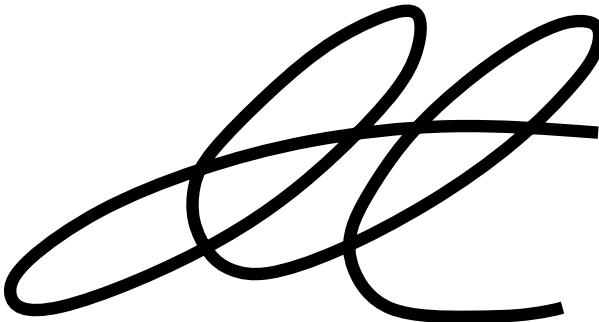


FT232H



Arduino nano

Vielen Dank! Fragen?



Mehr gibt es auf
Github.com

<https://github.com/HansAchterbahn/LightPipe>

