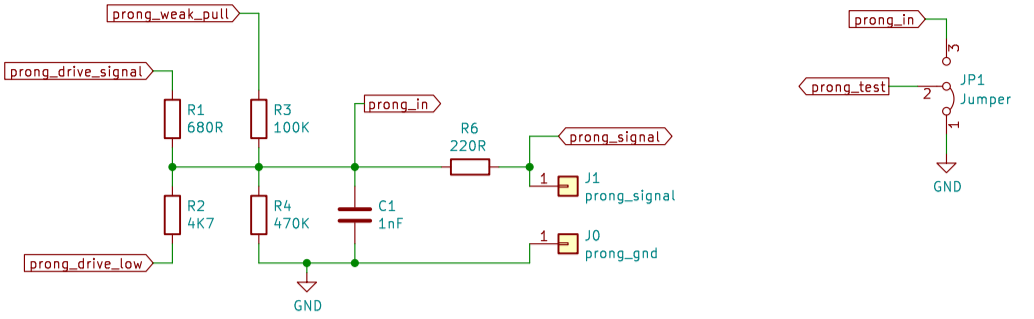


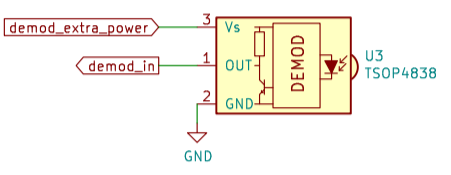
Circuit for pronged devices, PCB version
(On breadboard, R6 is inconvenient. Suggested R1=1K, R2=6K8, no R6.)



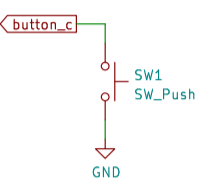
Ground 'prong_test' on premade units (no actual jumper required, a permanent connection is fine). For DIY, may be able to connect 'prong_test' to 'prong_in' for testing when support is added.

Circuit for Fusion/DataLink

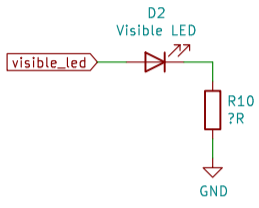
Vishay brand recommended: other brands may have issues with Data Link.



Button circuit

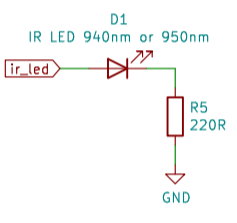


Visible LED
* Not used on Pico (on-board LED used instead)
* Recommended on Pico W with dmcomm-python
* Required for Pico W WiFiCom

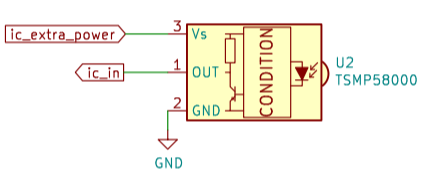


IR LED shared by all the IR devices

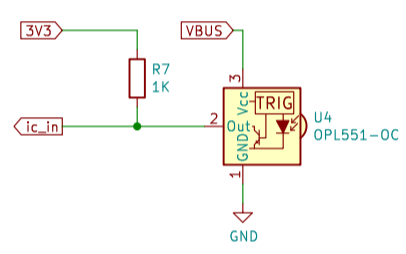
Note: Low forward voltage is better. Narrow-angle LEDs work better with D-Scanner. OFL-5102 and LTE-4208 are good.



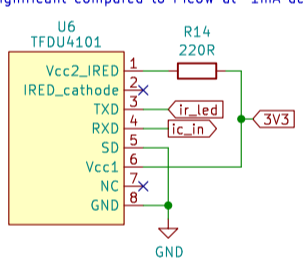
Old circuit for iC/Twin/DigiWindow. TSPM58000 is discontinued; MFR-suggested replacement TSPM98000 does not work.



Breadboard alternative circuit for iC/Twin/DigiWindow and Xros Loader



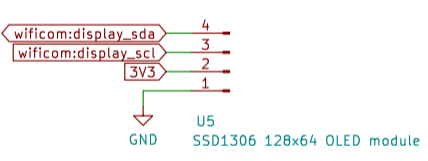
PCB alternative circuit for iC/Twin/DigiWindow and Xros Loader. Also replaces the IR LED circuit. (SD not really significant compared to PicoW at ~1mA deep sleep.)



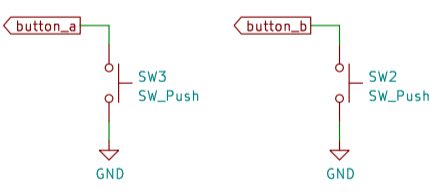
WiFiCom

Screen circuit

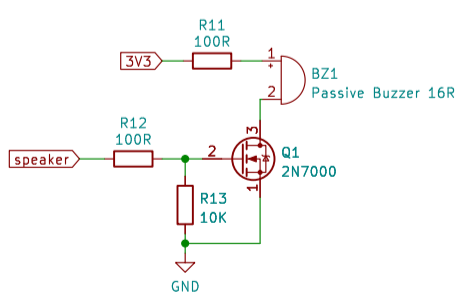
Note: Some modules have a different pin ordering.



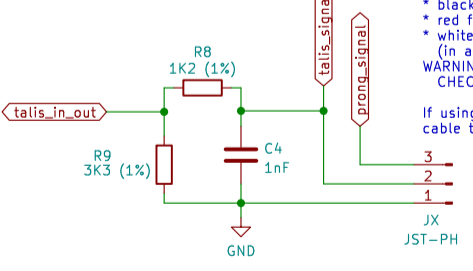
Additional buttons for on-screen menus



Speaker circuit: design is flexible. Different buzzers require different driver circuits. Make R11 easy to mod (if SMD, use largest size, extra copper area, leave some space around it). On breadboard, module with included amplifier recommended.



Circuit for Talispod/dam



Cable connector

In Adafruit STEMMA colours:
* black for GND
* red for 'talis_signal'
* white brings out extra 'prong_signal' (in addition to built-in prongs)
WARNING: Pin numbering is not consistent. CHECK FOOTPRINT for the part you are using!

If using breadboard, connect Legendz cable to GND and 'talis_signal'.