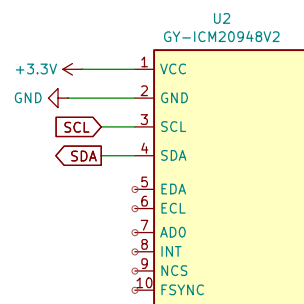
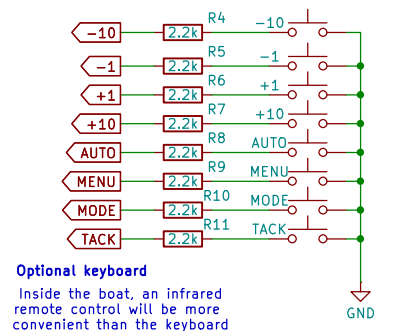


The Pypilot computer is powered by a +5V DC power supply connected to the Pi Zero W via a microUSB cable or better directly to the pins of the RPI Zero (+5V at 2 or 4 and GND at 6)



The IMU module must be compatible with the 3.3V I2C bus of Pi. All MPU2950 ICs are. But with the ICM20948 IC, which has a 1.65V I2C bus, the module must have an interface circuit to be able to be connected directly to a Pi. ICM20948 modules with only a few capacitors in addition to the IC cannot be connected directly to the Pi, even if the IC can be powered with 3.3V. Pi-compatible IM20948 modules have at least a few transistors in addition to the IC.



The +3.3V pins of raspberry Pi are connected together. The +3.3V pins of the IMU, the display and the interface to the controller must be connected to a +3.3V pin of the Pi

The GND pins of raspberry Pi are connected together. The GND pins of the IMU, the display, the keyboard and the interface to the controller must be connected to a GND pin of the Pi

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PYPILOT was imagined and designed by Sean D'EPAGNIER
Thanks to him for this fantastic boat autopilot

Rev. D: Add direct 5V power to the Pi Zero without micro USB

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Title: SIMPLE PYPILOT COMPUTER USING IMAGE TINYPILOT

Size: A4 Date: 2025-08-22

KiCad E.D.A. 9.0.0

Rev: D by JMD

Id: 1/1