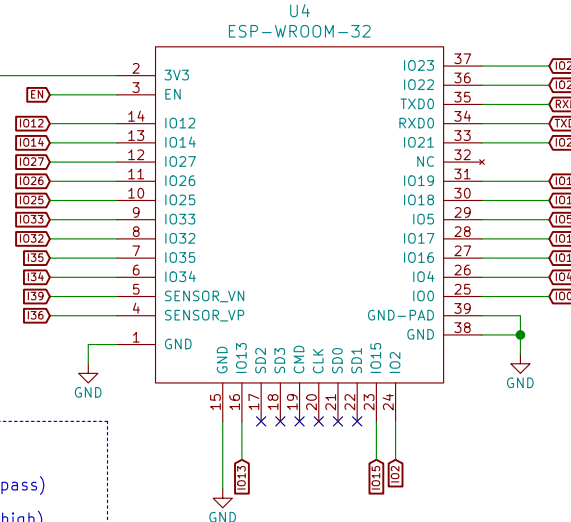


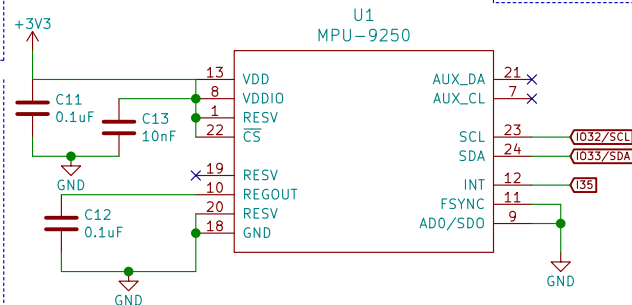
Ghost ESP32 Rev 3

A board based around the ESP-WROOM-32
It uses a stackable header from Hirose to connect to other boards.
Board is powered by 5.0V either through MicroUSB, or via 40-pin connector.

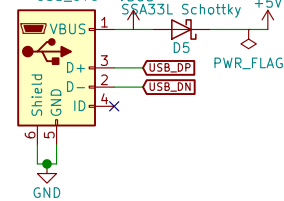
Note, GPIO 34 – 39 are INPUT mode ONLY.
Note, GPIO 6–11 are used by SPI-flash, and cannot be used for other purposes.
Note, GPIO0, GPIO2, GPIO5, GPIO12 and GPIO15 are strapping pins, and cannot be pulled high/low.
Note, GPIO23 dedicated to LED
Note, GPIO32 and GPIO33 is dedicated to I2C



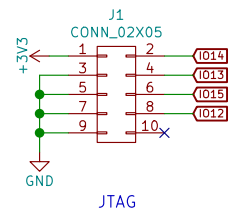
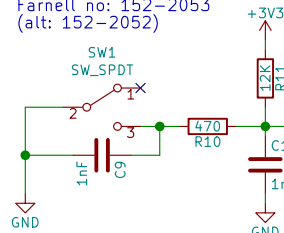
MPU-9250 MEMS (acc/gyro/compass)
Farnell no: ???-????
I2C-address: 0x68 (0x69 if ADO high)



MicroUSB
Farnell no: 229-3836



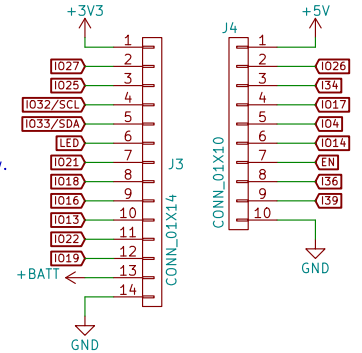
Reset button for ESP32
Farnell no: 152-2053
(alt: 152-2052)



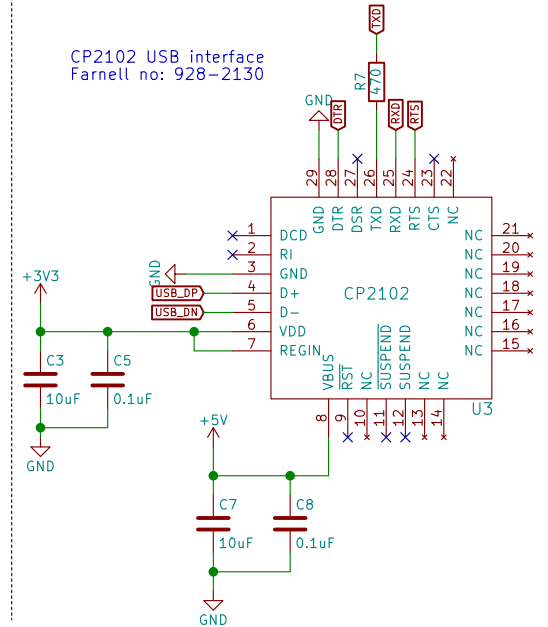
Strapping pins.
Use with caution.
Do not pull high/low.

IO5X
IO2X

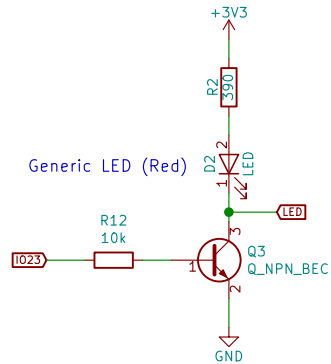
Two 0.1" header rows
Each pin max 3A current
NB, 34, 36, 39 are Input-only
One side shorter than other to
make room for reset button.



CP2102 USB interface
Farnell no: 928-2130

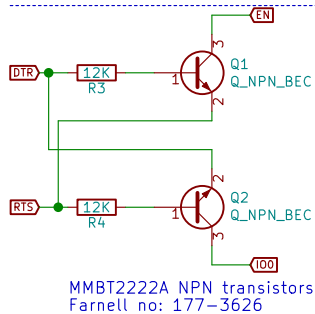
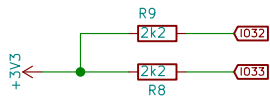


Generic LED (Red)



MMBT2222A (alt MB3904)
Farnell no: 177-3626 (177-3602)

I2C pull-ups, not-connected.
Only used when using
board in single-board mode.



MMBT2222A NPN transistors
Farnell no: 177-3626

<https://github.com/Scalpel78/Ghost/tree/master/KiCad/GhostESP32/Rev3>

Frode Lillerud

Sheet: /

File: GhostESP32.sch

Title: Ghost ESP32

Size: A4 Date: 2017-06-12

KiCad E.D.A. kicad no-vcs-found-ac9a64a58ubuntu16.04.1

Rev: 3

Id: 1/1