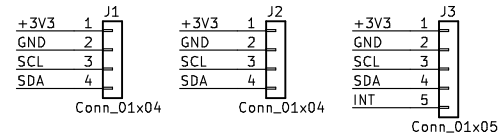


## I2C sensors connectors



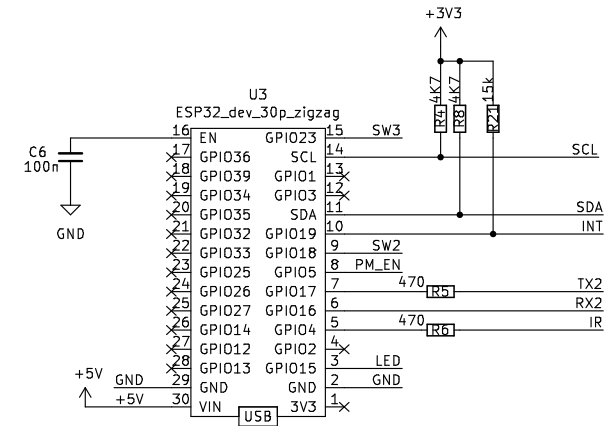
## Serial sensors connector

Notes about Particulate Meters sensors  
 - PM\_EN is optionally intended to enable/disable the particle meter (not to have it always on)

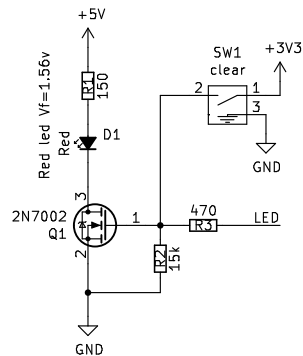
- Notes:
- REMOVED ANALOG INPUTS
  - CRYPTO will be part of future ESP32 themselves
  - GPIO5 has a 10k pull-up on +3v3 on devkit V1 !!
  - GPIO5 reserved for Particulate Meter ENable (3v3)
  - GPIOX reserved for LED + clear sw
  - GPIO13 reserved for noise sensor
  - GPIO4 reserved for IR sensor (input)
  - GPIO15 is high at boot
  - ADC2 pins cannot be used when WIFI in use
  - prefer ADC1 pins (GPIO32 --> 39)
  - GPIO1 & GPIO3 are serial0 (prog.)
  - GPIO2 onboard blue led @ devkit V1
  - EN tied to a grounded capacitor

### >> TODO: neOSensor 52 <<<

- [Done] remove R9 (was pull-down @ IR)
- [Done] add 470R in serie with GPIO4 (IR input)
- [Done] add capciton on EN pin
- [Done] extended J4 with dual personality sensors (i.e both VCC/GND/SCL/SDA and GND/VCC/SCL/SDA)
- make use of esp32 zig-zag footprint

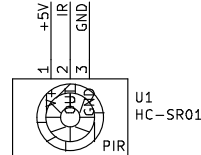


## LED and SWITCHES

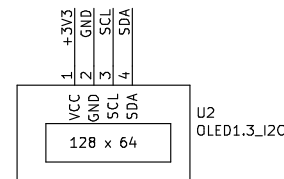


## PIR sensor

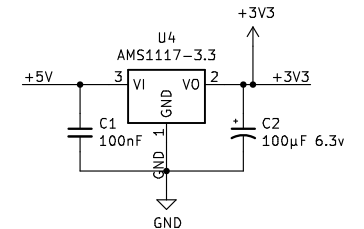
HC-SR01 V+ accepts from 5 to 20v  
 OUT pin is 3.3 TTL



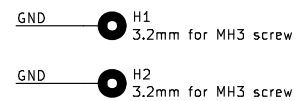
## Display



## Power supply



## Board mounting holes



## PWR flags (for ERC)

no PWR flag needed for 3v3 because the voltage regulator is a source

