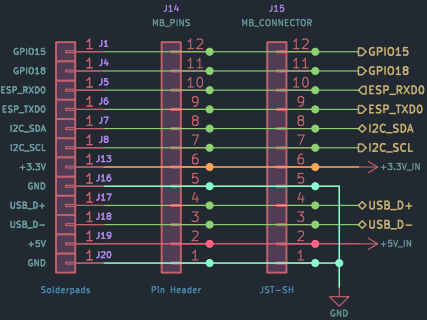


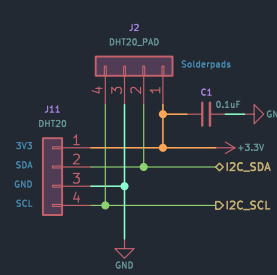
MOTHERBOARD CONNECTOR

Connects to the ESP32-S3 motherboard.



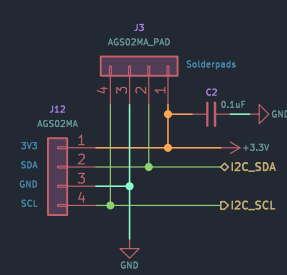
DHT20 – TEMP & HUMIDITY SENSOR

Temperature & Humidity sensor.
Both 2.54 mm pin headers and solderpads are available.



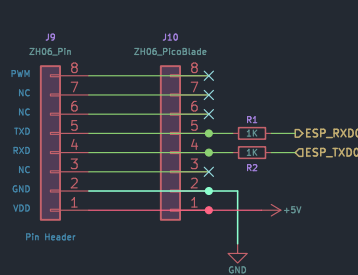
AGS02MA – TVOC SENSOR

TVOC (Total Volatile Organic Compounds) sensor.
Both 2.54 mm pin headers and solderpads are available.



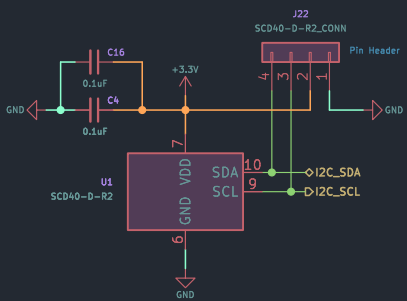
ZH06 – DUST SENSOR

0.3–10 um, PM1, PM2.5 & PM10 laser dust sensor.
Both PicoBlade and 2.54 mm pin headers are available.



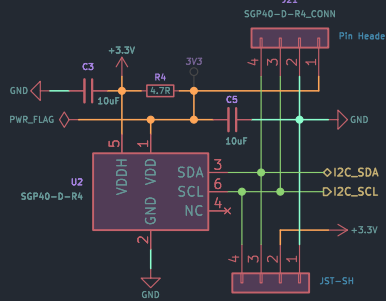
SCD40-D-R2 – CO2 SENSOR

400–2000 PPM Photoacoustic CO2 sensor with temperature & humidity.



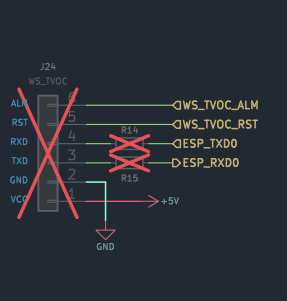
SGP40-D-R4 – TVOC SENSOR

TVOC sensor for Indoor air quality sensing, I2C, 3.3V, DFN-6 SMD



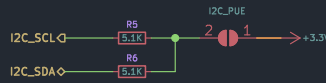
WAVESHARE TVOC SENSOR

TVOC sensor for Indoor air quality sensing, I2C, 3.3V, DFN-6 SMD

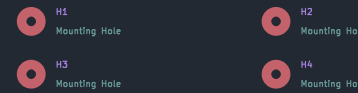


I2C PULL-UP

Optional I2C pull-resistors. Use this when there are no external pull-ups.

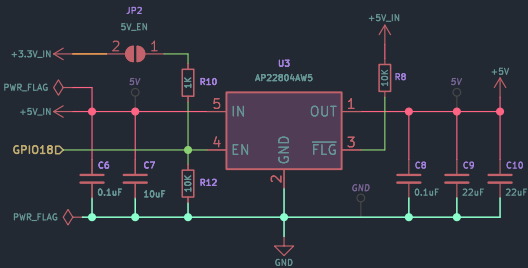


MOUNTING HOLES



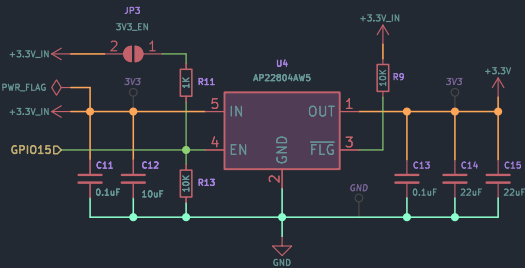
+5V LOAD SWITCH

Controls the power to 5V loads. Controlled by the MCU.
Use the 5V_EN jumper to override when a control input is not available.
Maximum current 2.5A.



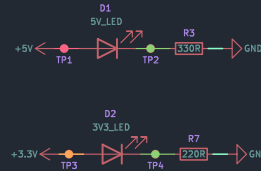
+3.3V LOAD SWITCH

Controls the power to 3.3V loads. Controlled by the MCU.
Use the 3V3_EN jumper to override when a control input is not available.
Maximum current 2.5A.



LED

Indicates power supply status.
Solderpads are provided for connecting LEDs externally.



www.circuitstate.com

GitHub: <https://github.com/CIRCUITSTATE/AQEYE-SB-D1>

Licence: MIT Open-Source Licence

Sensor Board for the AQEYE-MB-D1
Designed by: Vishnu Mohanan (@vishnumaitea, @vizmohanan)
CIRCUITSTATE Electronics LLP
Sheet: /
File: AQEYE-SB-D1.kicad_sch

Title: AQEYE-SB-D1

Size: A3
Date: 2025-06-05
KiCad E.D.A. 9.0.2

Rev: 0.1
Id: 1/1