server

File: server.kicad_sch

client

File: client.kicad_sch

Sheet: /
File: water_temp_sensor.kicad_sch

Title:

Size: A4 | Date:

KiCad E.D.A. kicad (6.0.7)

Rev:

Id: 1/3

+3.3V

A2
ESP32_38_pin_ESP_WROOM_32

Pin	Signal	Signal	Pin

1-1 VDD33 · IO0 2-14
1-19 EXT_5V · IO2 2-15
· IO4 2-13
1-2 EN · IO5 2-10
· IO12 1-13
1-3 SENSOR_VP · IO13 1-15
1-4 SENSOR_VN · IO14 1-12
· IO15 2-16
· IO16 2-12
2-4 TXD0 · IO17 2-11
2-5 RXD0 · IO18 2-9
· IO19 2-8
2-19 CLK · IO21 2-6
1-18 CMD · IO22 2-3
2-18 SD0 · IO23 2-2
2-17 SD1 · IO25 1-9
1-16 SD2 · IO26 1-10
1-17 SD3 · IO27 1-11
· IO32 1-7
1-14 GND · IO33 1-8
2-1 GND · IO34 1-5
2-7 GND · IO35 1-6

GND

+3.3V

A1
Grove_LoRa

2 VCC   RX 3
1 GND   TX 4

GND

+BATT

BT?
9V battery

GND

+5V

R2
4.7K

U1
DS18B20
Water sensor

GND

+5V

R3
4.7K

U2
DS18B20
Ambient sensor

GND

J1
AVR-ISP-6

+5V

VCC 2

MISO 1
MOSI 4
SCK 3
RST 5

GND 6

GND

A4
Sparkfun_pro_micro

+BATT +5V

2-4 VCC
2-1 RAW
      D2   1-8
      D3   1-7
2-3 RESET D4   1-6
      D5   1-5
2-9 SCK/D15 D6 1-4
2-10 MISO/D14 D7 1-3
2-11 MOSI/D16 D8 1-2
              D9 1-1
1-11 RXI/D0 D10 2-12
1-12 TXO/D1 A0   2-8
1-9 GND   A1   2-7
1-10 GND   A2   2-6
2-2 GND   A3   2-5

GND

A3
Grove_LoRa

+5V

2 VCC RX 3
1 GND TX 4

Q1
2N7000

2

R1
100

GND