

123456

A

[2] Power

File: 02_power.kicad_sch

[3] USB

File: 03_usb.kicad_sch

[4] ESP32 S3

File: 04_esp32_s3.kicad_sch

[5] Peripherals

File: 05_peripherals.kicad_sch

B

C

Mounting Holes (M3)

H101

MountingHole

H102

MountingHole

H103

MountingHole

H104

MountingHole

Sheet: /

File: esp32_s3_weather_webserver.kicad_sch

Title:

Size: A4

Date:

Rev:

KiCad E.D.A. 9.0.4

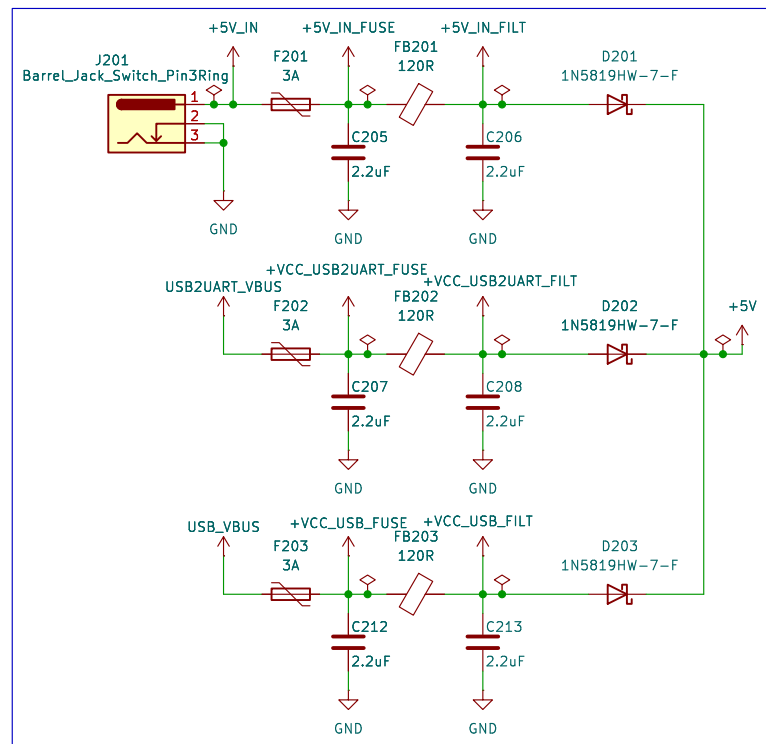
Id: 1/5

D

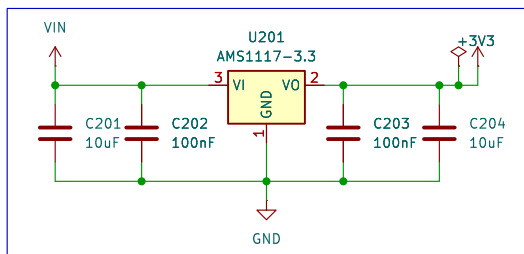
123456

[2] Power

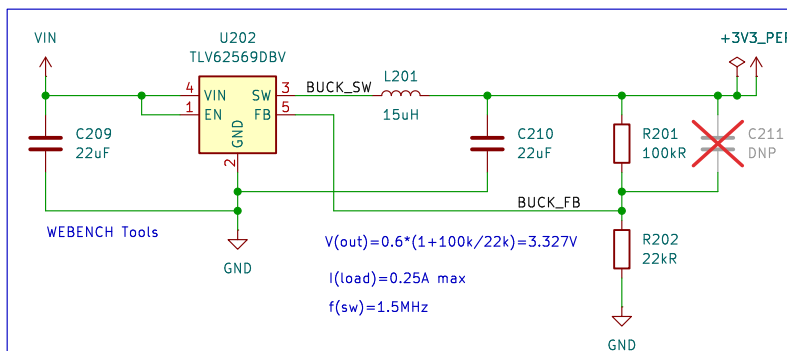
Power input



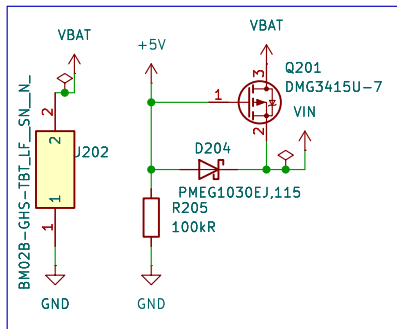
Powering ESP32



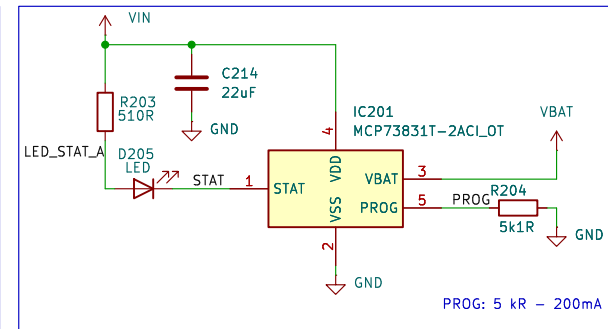
Powering Peripherals



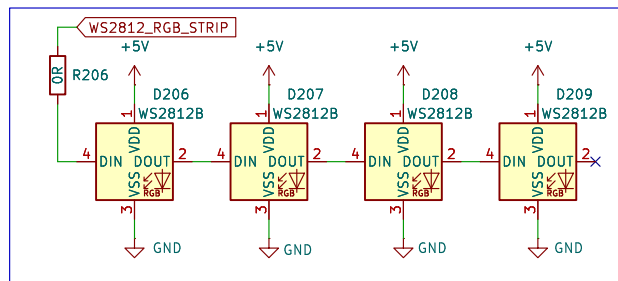
Battery connect



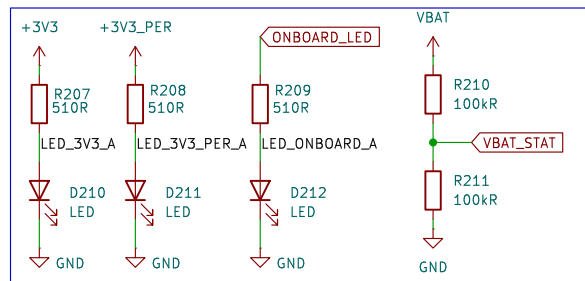
Battery charge



RGB strip



Power indication



Sheet: /[2] Power/
File: 02_power.kicad_sch

Title:

Size: A4 Date:

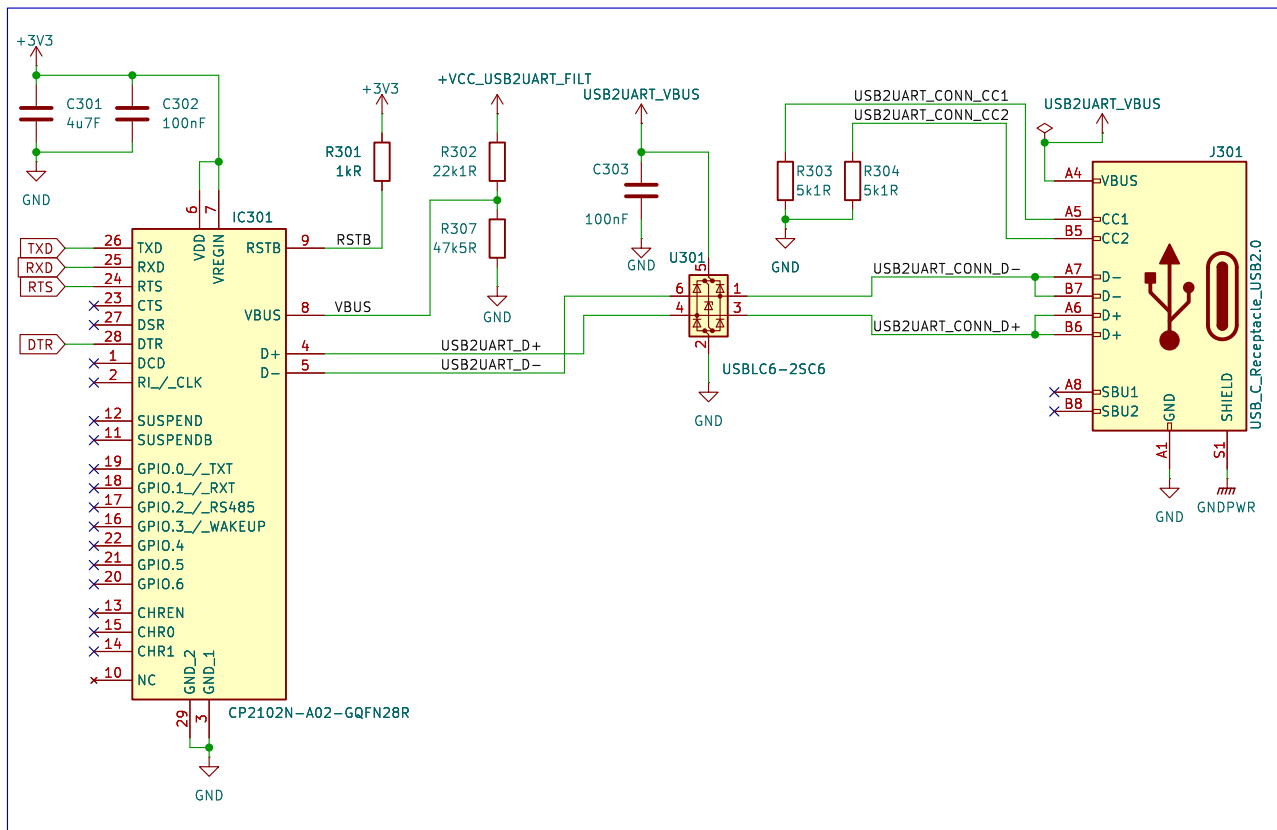
KiCad E.D.A. 9.0.4

Rev:

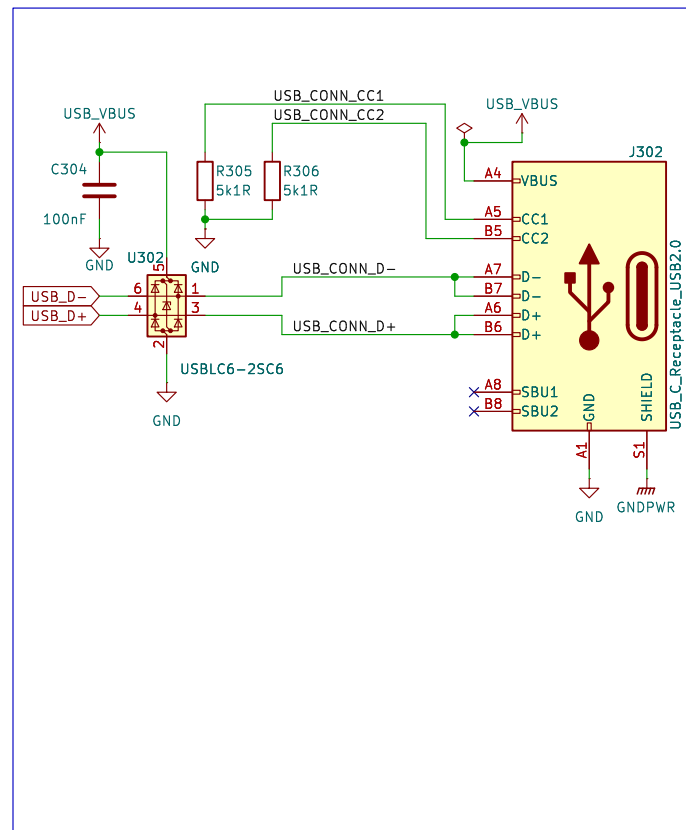
Id: 2/5

[3] USB

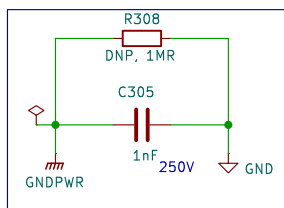
USB to UART:



USB to ESP32:



Chassis GND Connection



Sheet: /[3] USB/
File: 03_usb.kicad_sch

Title:

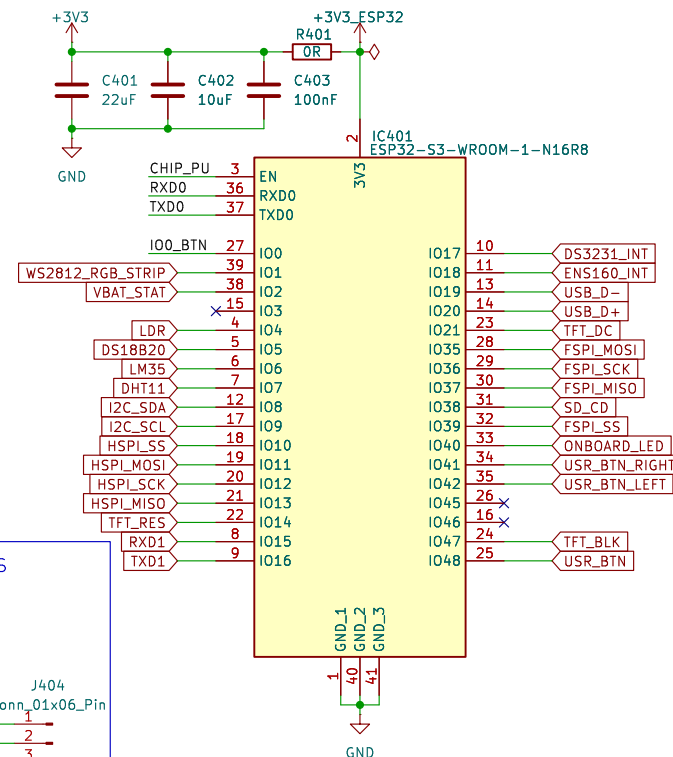
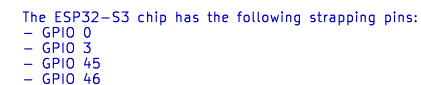
Size: A4

Date:

Rev:

Id: 3/5

RESET BUTTON



```

// SD MMC pins option
const int SD_MMC_CLK_PIN = FSPL_SCK_PIN; // SCK OTG
const int SD_MMC_CMD_PIN = FSPL_MOSI_PIN; // MOSI OTG
const int SD_MMC_D0_PIN = FSPL_MISO_PIN; // MISO OTG
const int SD_MMC_CD_PIN = 21; // Card detect
//

```

```

//-----
// TFT Display
const int TFT_SCK_PIN = HSPI_SCK_PIN; // SPI clock signal
const int TFT_SDA_PIN = HSPI_MOSI_PIN; // Serial data input pin sda
const int TFT_RES_PIN = 40; // Reset pin
const int TFT_DC_PIN = 41; // Data selection signal
const int TFT_CS_PIN = HSPI_SS_PIN; // LCD chip select signal, for SPI protocol
const int TFT_BLK_PIN = -1; //
//-----

```

Sheet: /[4] ESP32 S3/
File: 04_esp32_s3.kicad_sch

Title:

Size: A4	
KiCad E.D.A. 9.0.4	

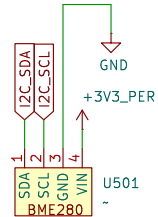
Date:

Rev:
Id: 4/5

[5] Peripherals

I2C

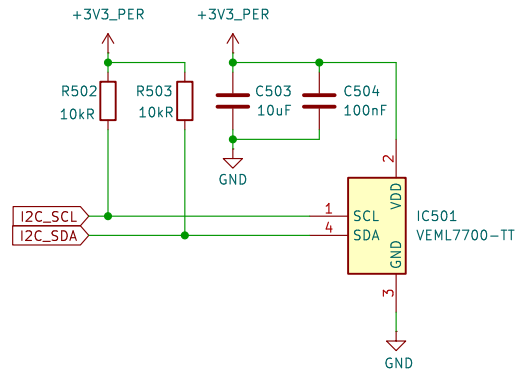
BME 280 I2C



Temperature
Humidity
Pressure
Sensor

SDO: I2C address bit 0 GND: '0'; VDDIO: '1'

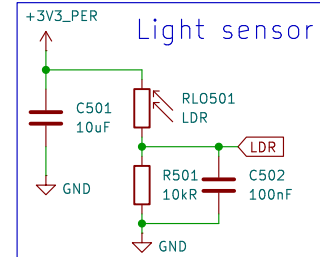
VEML 7700



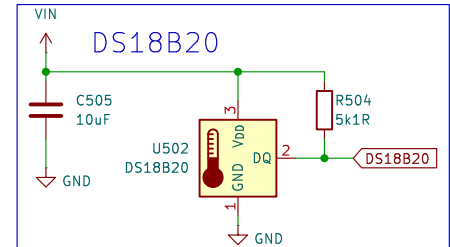
Light sensor

Analog

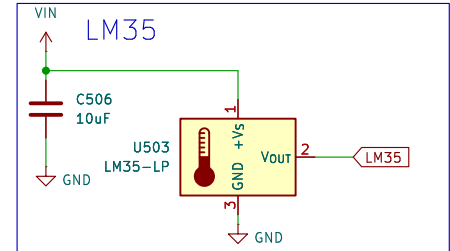
Light sensor



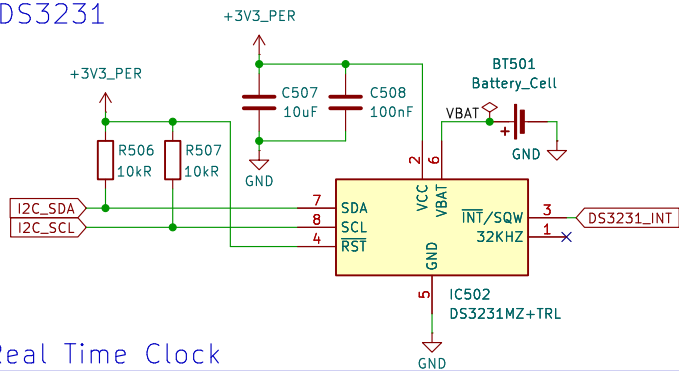
DS18B20



LM35

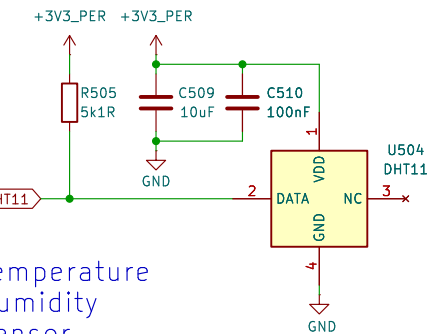


DS3231



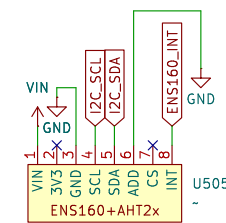
Real Time Clock

DHT11

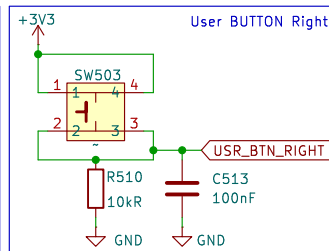
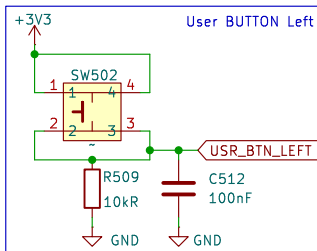
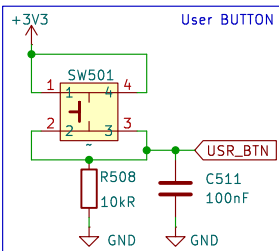


Temperature
Humidity
Sensor

ENS160+AHT2x



Air quality
sensor



Sheet: /[5] Peripherals/
File: 05_peripherals.kicad_sch

Title:

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