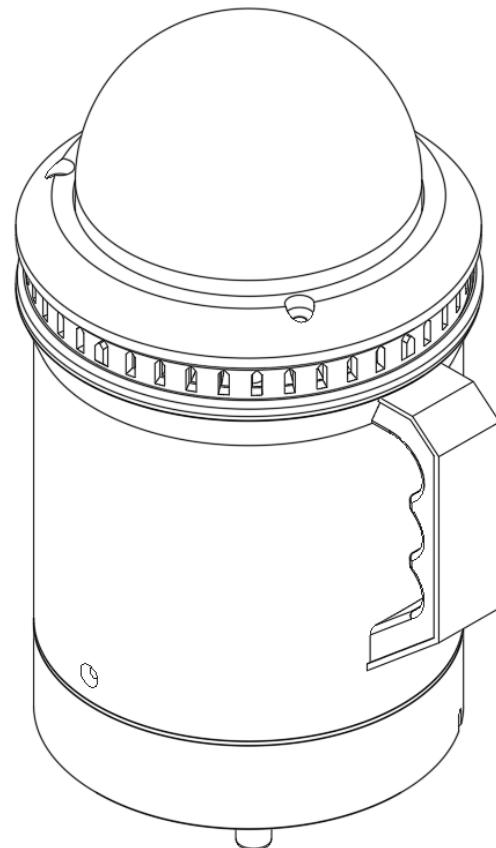


Technical Drawing &  
Component Specifications  
V2.0

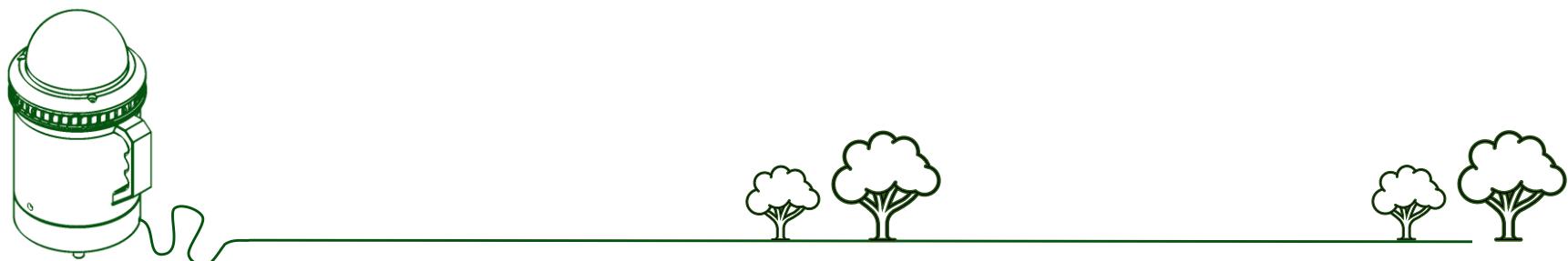
Dec 2025

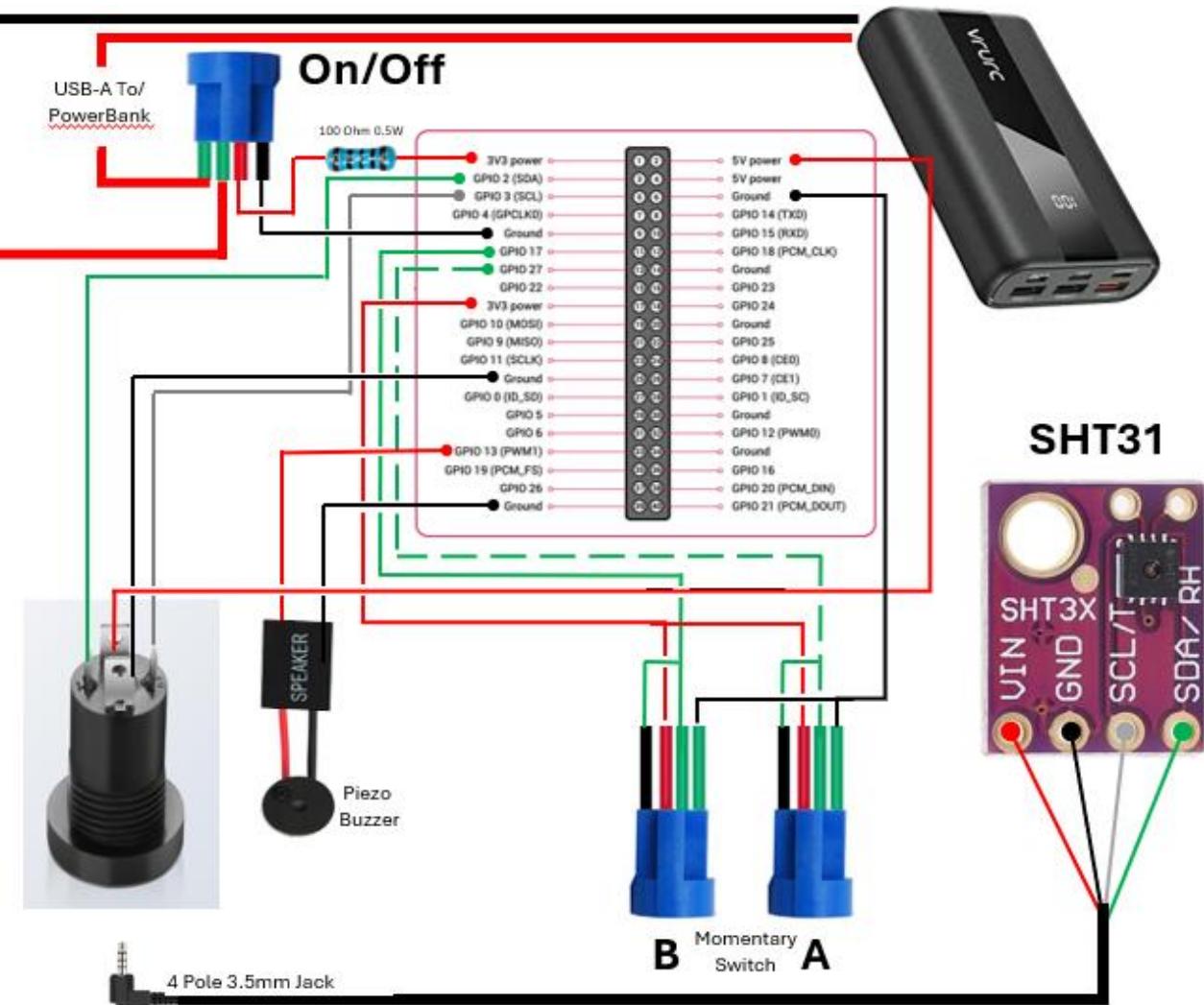
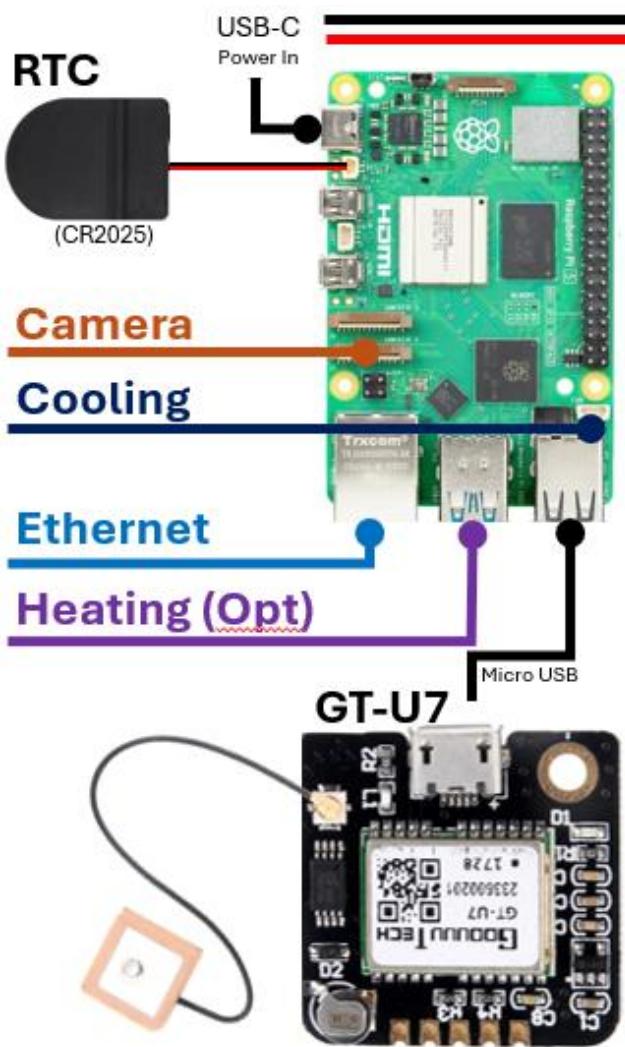
Allsky GO



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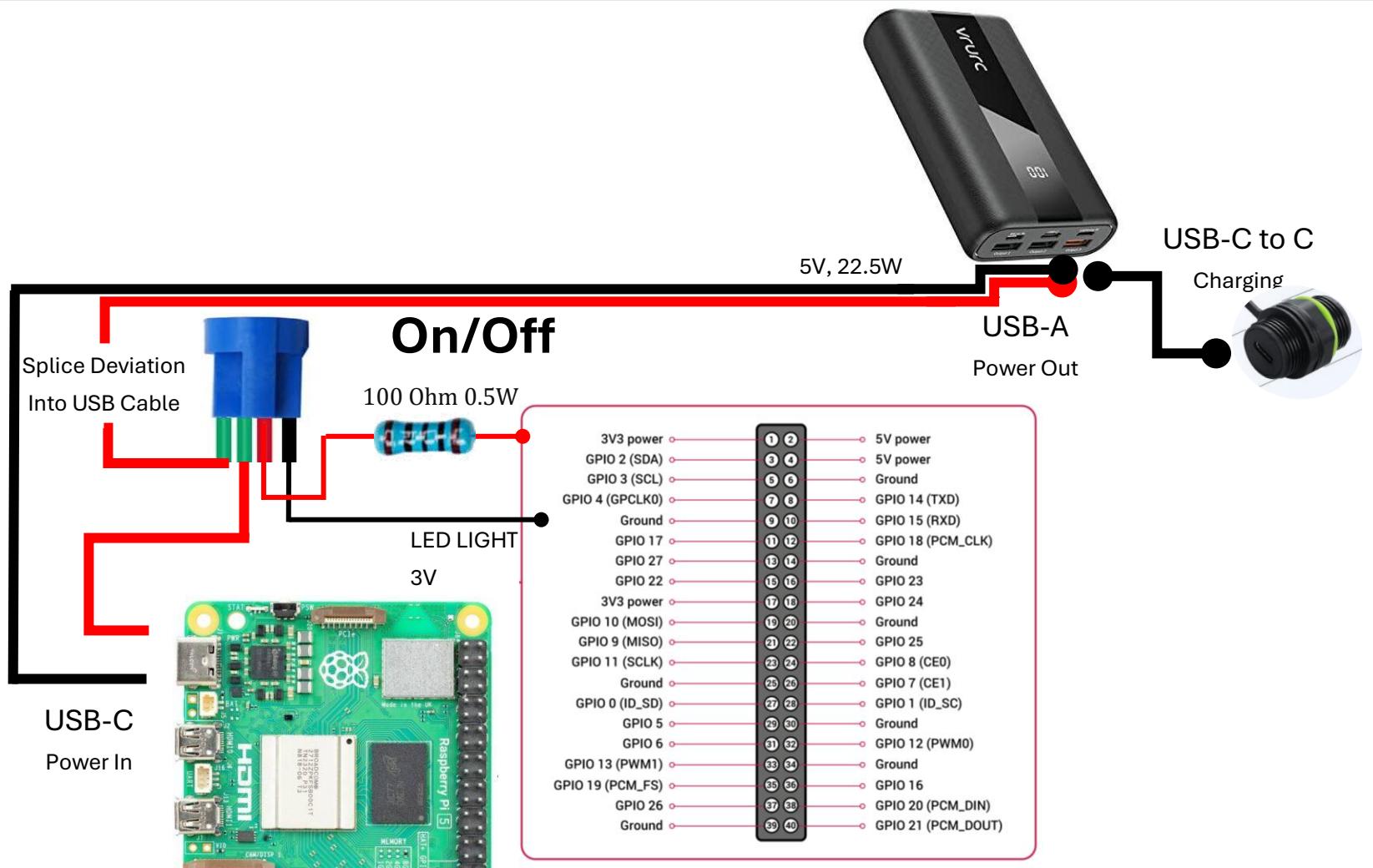


**Revisions:**

19-12-25 Revised Harnesses to limit Current Draw & Loader on GPIO

# Raspberry Pi5

# Allsky **GO**



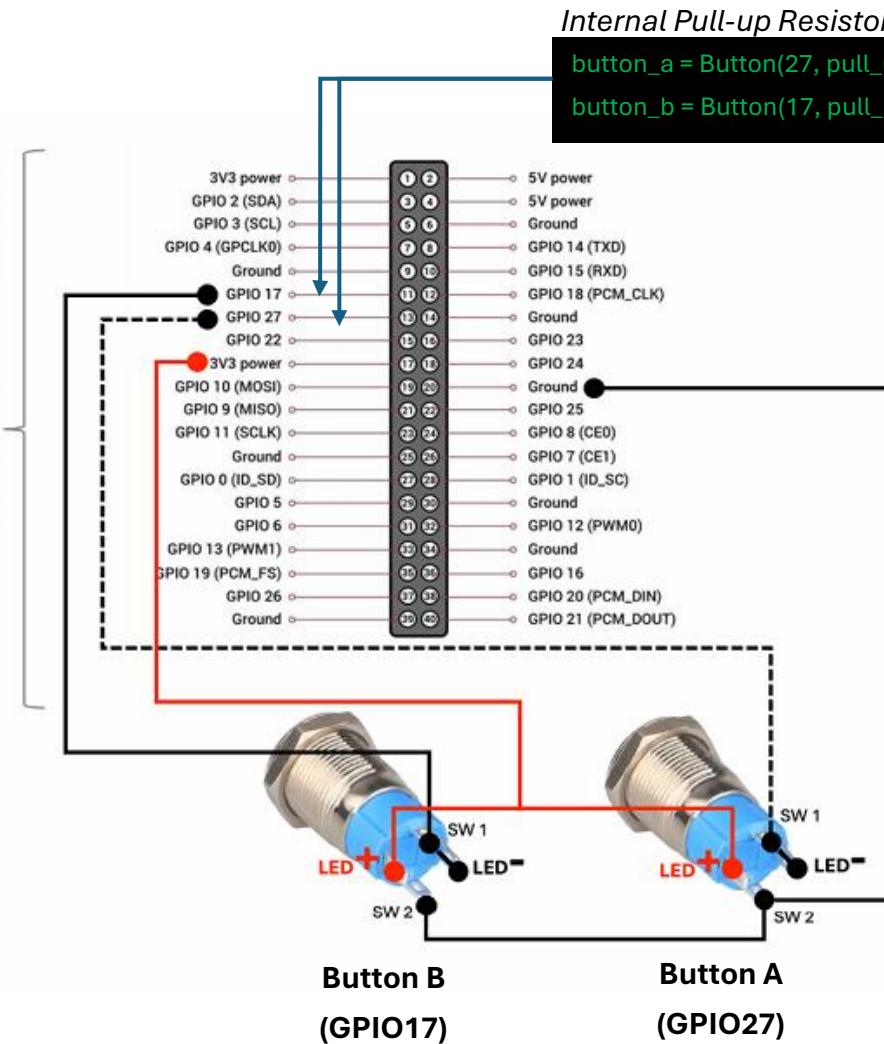
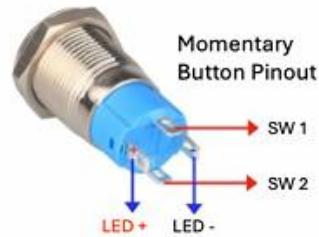
*Revisions:*

19-12-25 Add External Resistor to limit Current Draw from GPIO

# Power Harness

# Allsky GO

## Schematics:



*Revisions:*

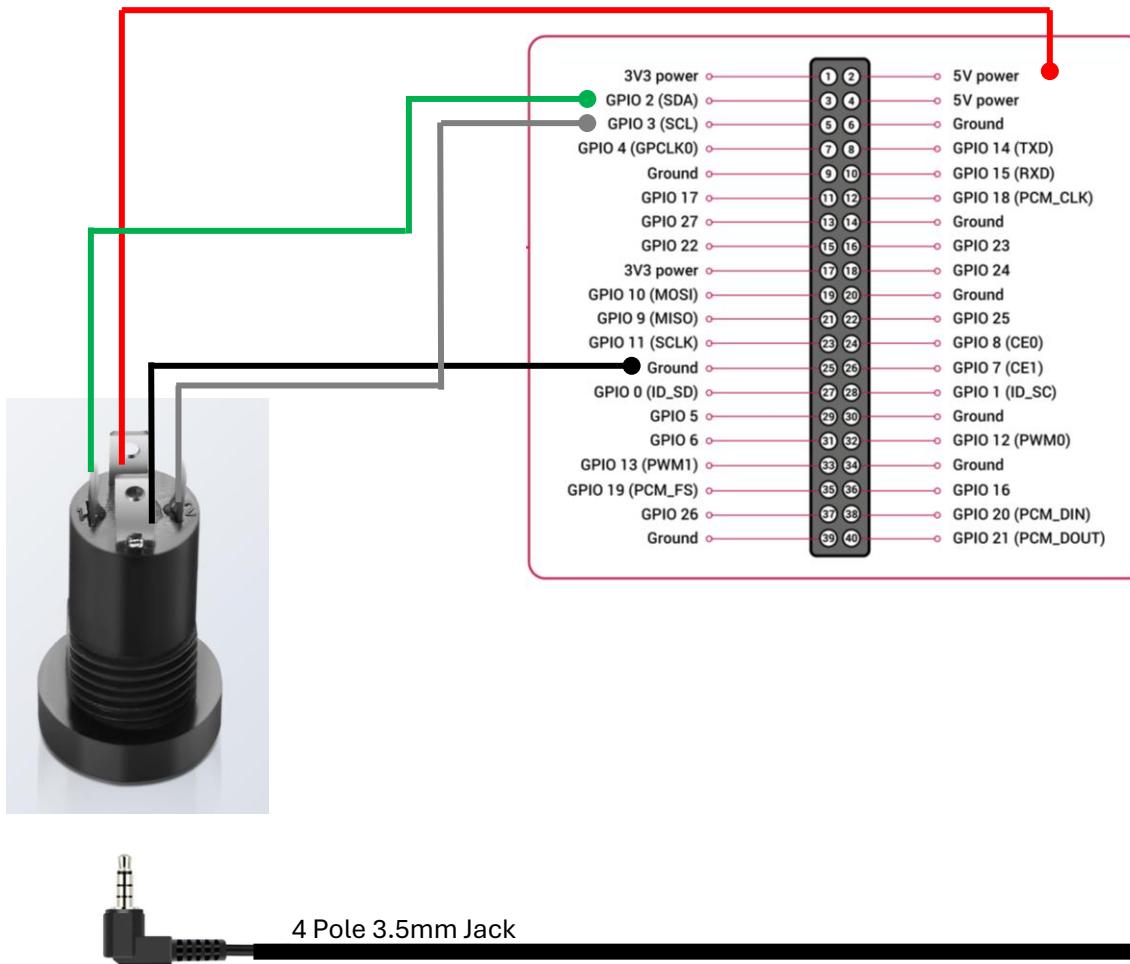
19-12-25 Changed Harness to align to GPIO 3.3V Limits

# Button Harness

Thanks to  
[@Aemideus 392744](#)

9

# Allsky GO



**SHT31**



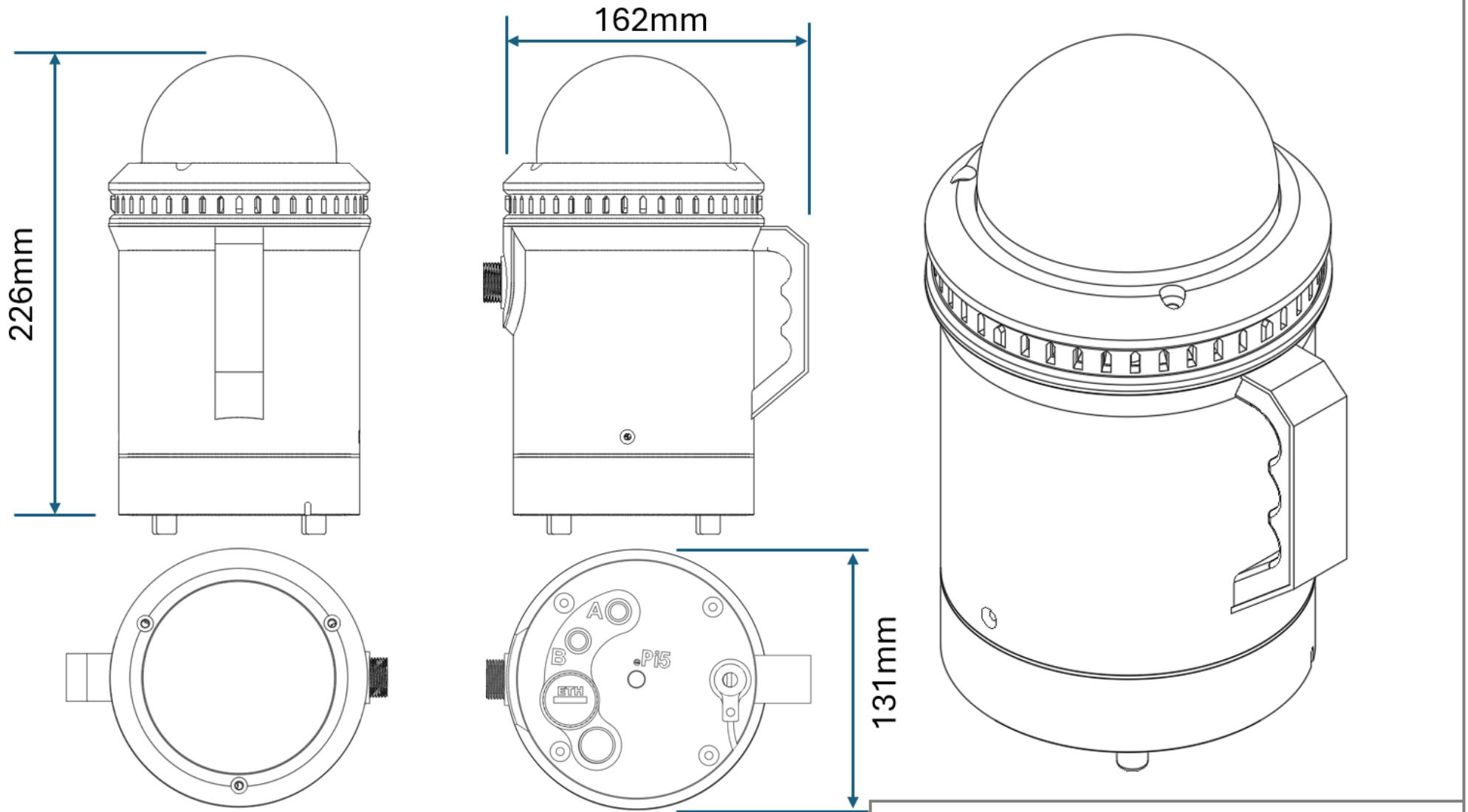
*Revisions:*

19-12-25 Changed to 5V or free 2<sup>nd</sup> 3.3V Pin for Button LED

**SHT31 Harness**

**Allsky GO**

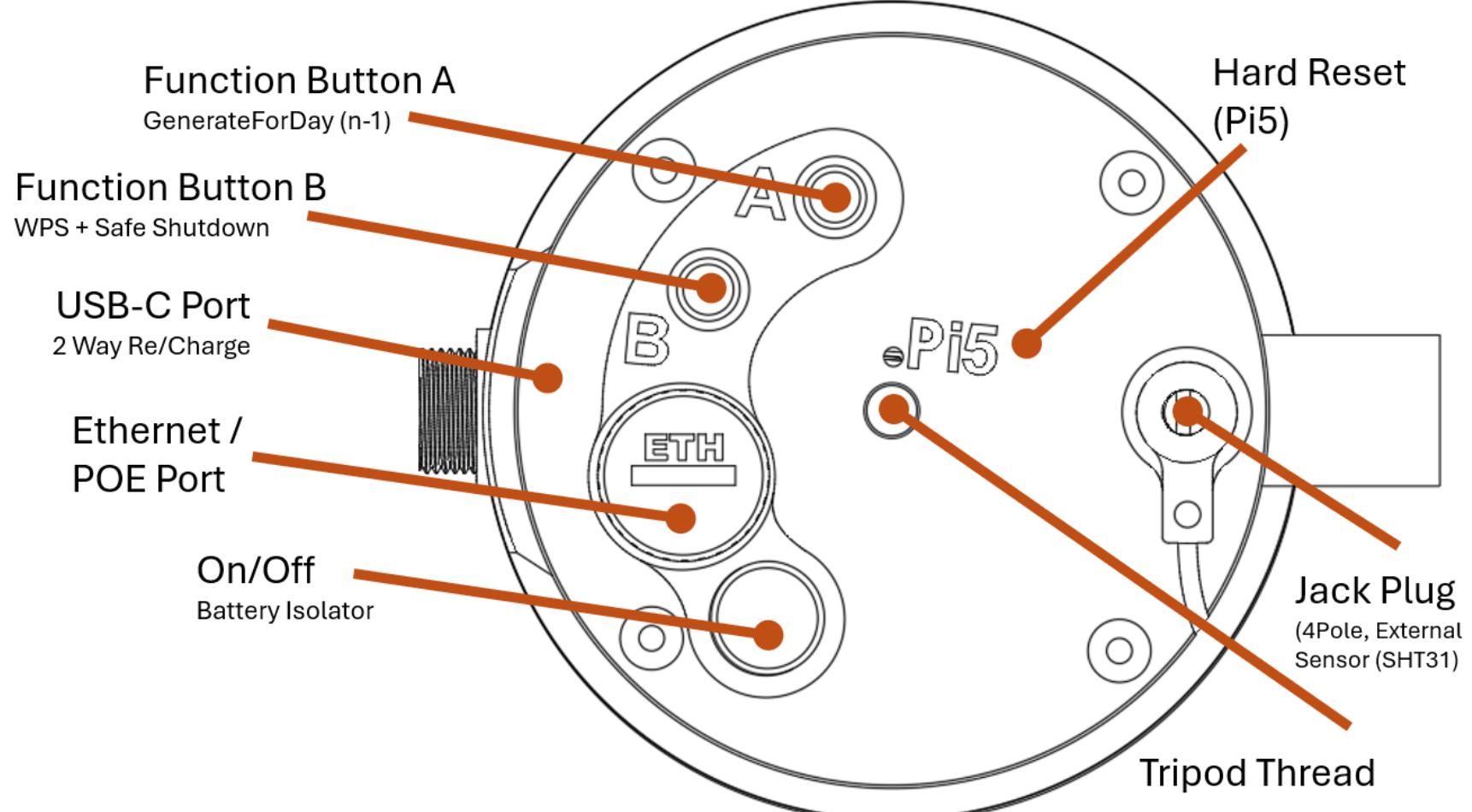
## Dimensions



**Dimensions**

**Allsky** **GO**

## Functions



Functions

Allsky **GO**

## Components

### CS-Mount Lens

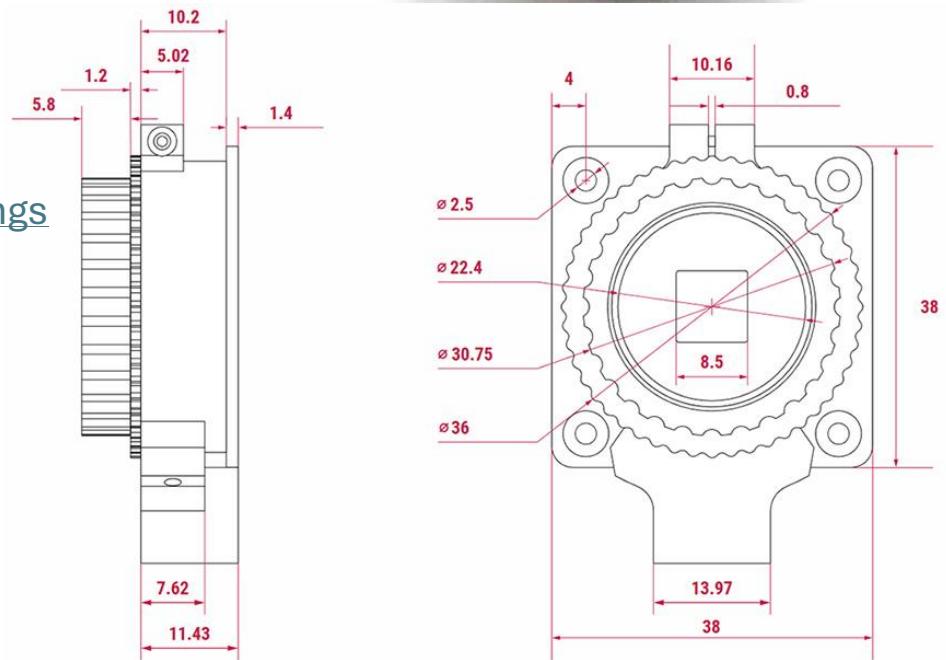
Characteristic 2.5 or 2.8mm for 150-170deg FOV [AliExpress](#)



### HQ Camera Mount

Mark: Raspberry [Reichelt](#)

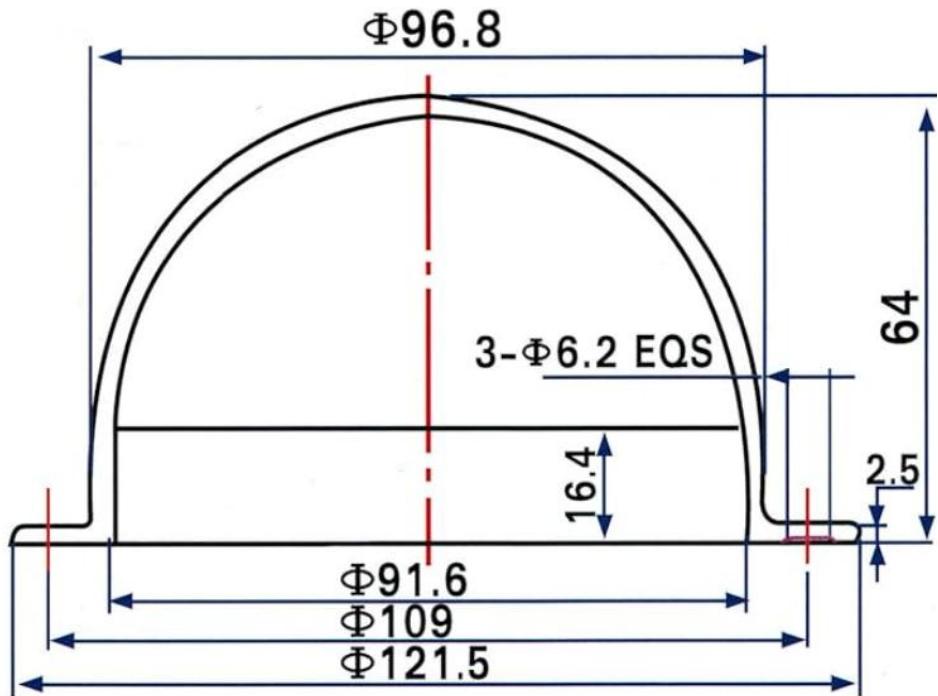
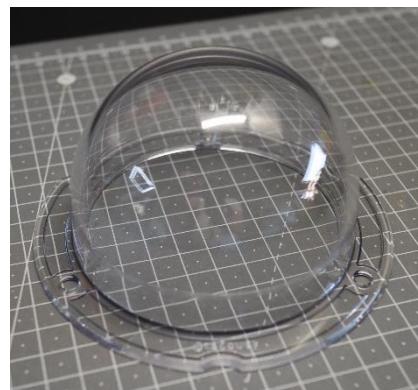
[CS-Mount\\_HQ\\_Camera\\_Mechanical\\_Drawings](#)



Acrylic Dome

Brand: JMC [Amazon](#)

Characteristic 3.5Inch Dome



Power Bank

Make: Vrurc [Amazon \(VRURC Mini Power bank\)](#)

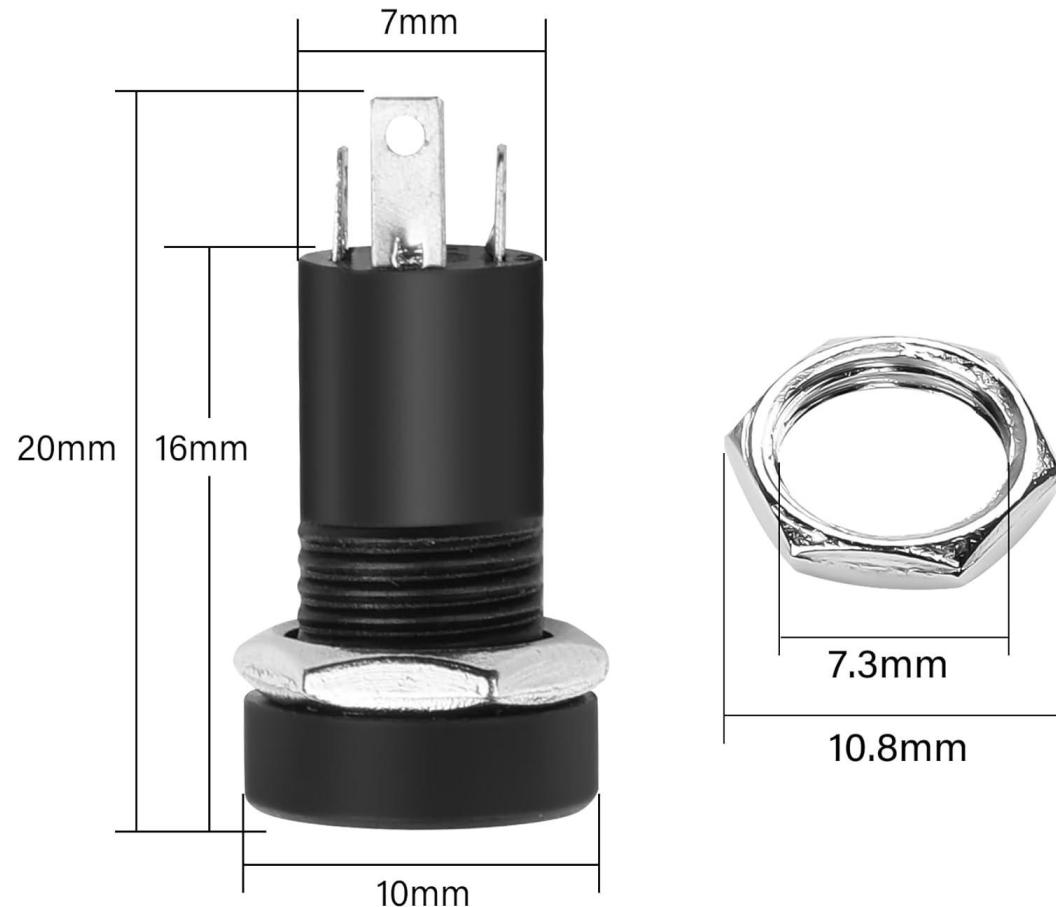
Characteristic: 20.000mah



Jack plug (female)

Distributor: PNGKNYOCN - [Amazon](#)

Characteristic: 4 Pole – Requires 4 Pole Jack Plug



## Power Switch (3-9v)

Distributor: Gebildet [Amazon](#)

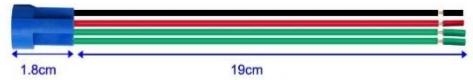
Characteristic: 16mm Thread



## Momentary Switch (3-9v)

Distributor: Gebildet [Amazon](#)

Characteristic: 12mm Thread



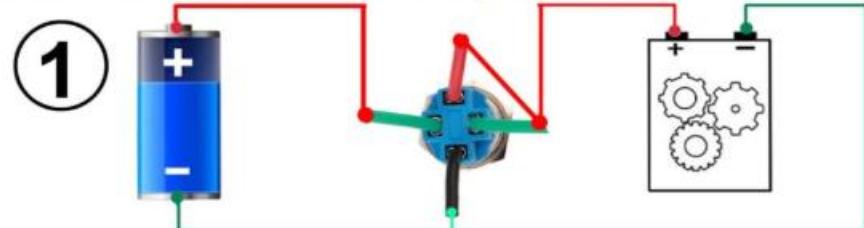
Led light on only when you press button

Lumière LED allumée uniquement lorsque vous appuyez sur le bouton

LED-Licht nur an, wenn Sie die Taste drücken

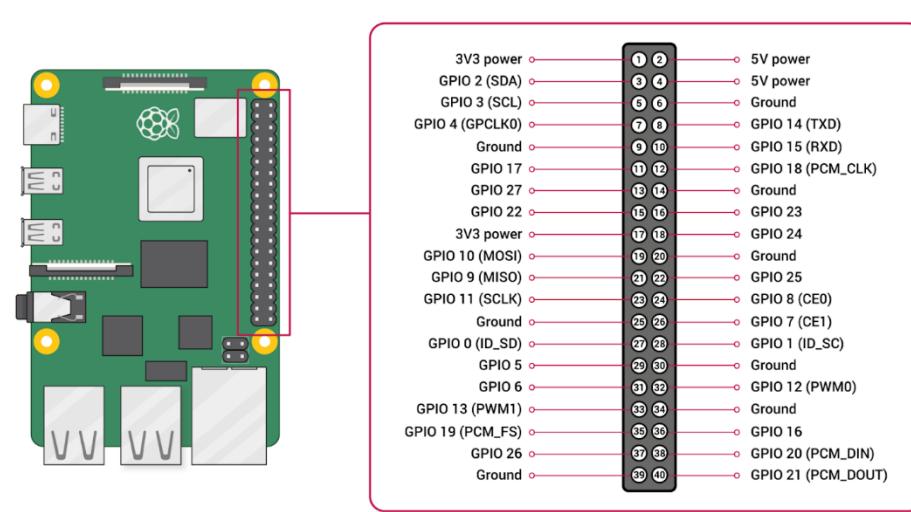
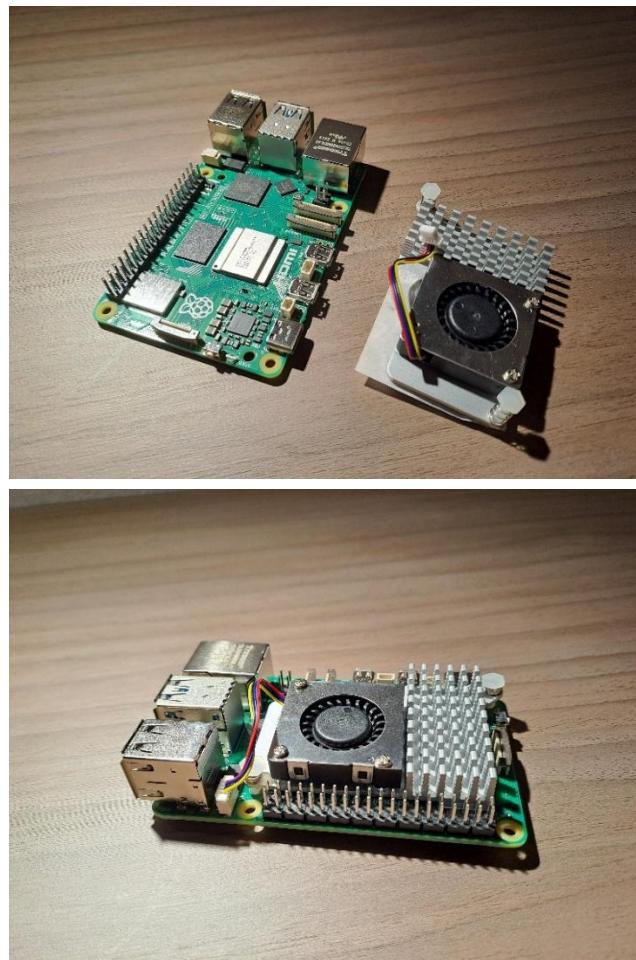
Luce led accesa solo quando si preme il pulsante

Luz LED encendida solo cuando presiona el botón



# Raspberry Pi5 & Active Cooling Module

## Reichelt (DE)



<https://datasheets.raspberrypi.com/rpi4/raspberry-pi-4-mechanical-drawing.pdf>

Waterproof USB-C Pass-thru (only the core section required)

Distributor: PNGKNYOCN [Amazon](#)

Characteristic: 19mm Thread



Ethernet Port Pass-Thru

Distributor: Greluma [Amazon](#)

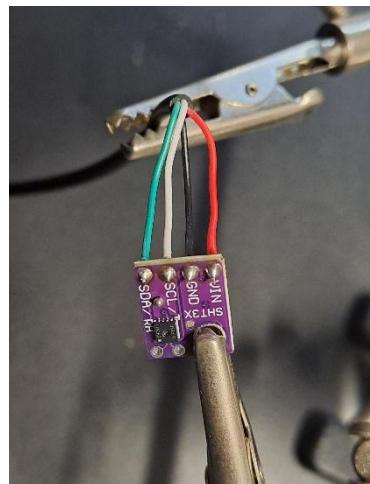
Characteristic: 24mm Diameter



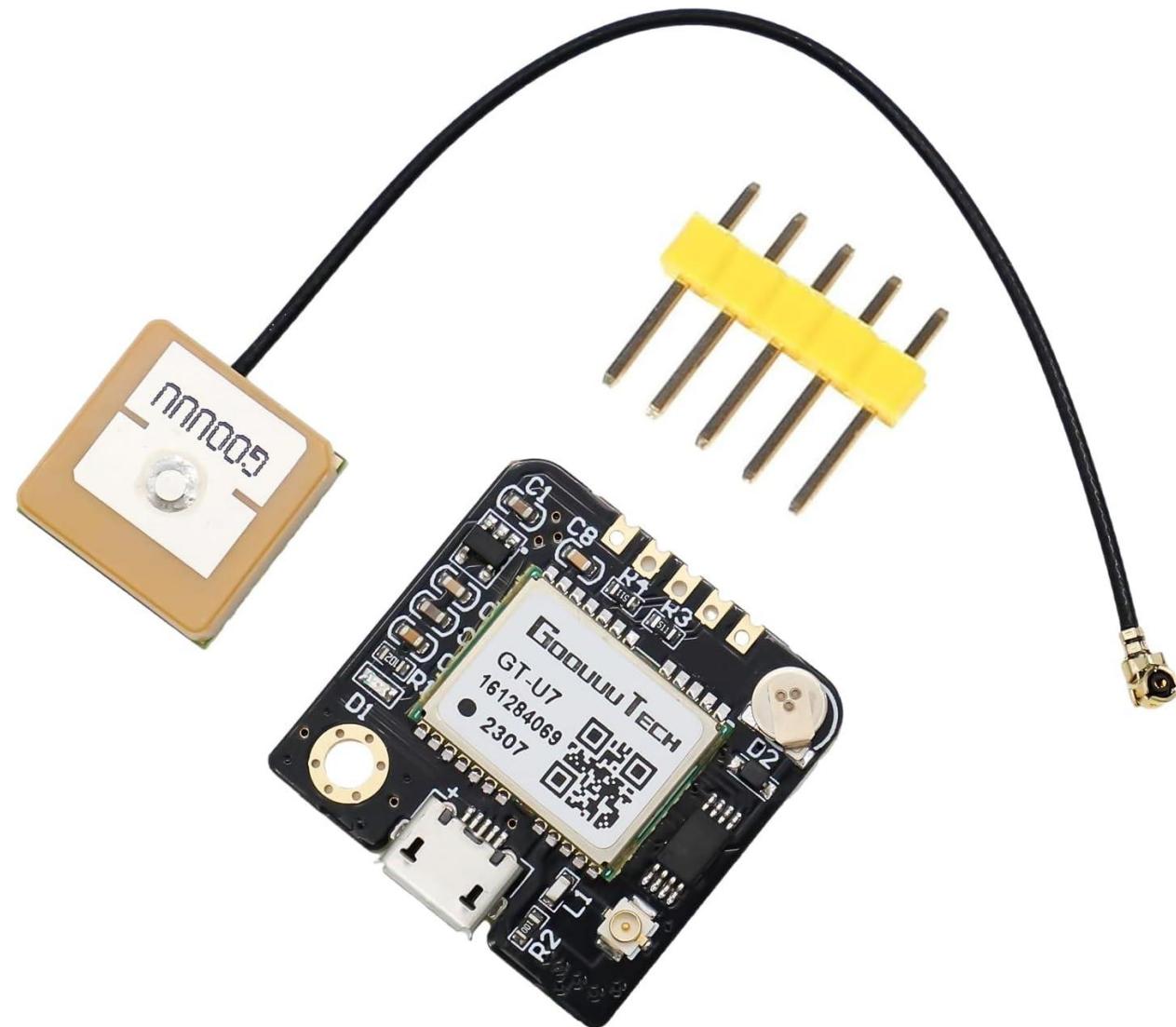
## SHT31 Humidity and Temperature Sensor

Different Options exist depending on your circumstance.  
Sensors with 4 poles can be wired to the Jack Plug and  
programmed for Raspberry.

[Amazon](#)



GT-U7 GPS Modulo



## 1/4-20 Tripod Threaded Inserts

Mark: Ruthex [Amazon](#)

Characteristic: 7.9-8mm hole – two lengths available  
(both compatible)

## M3 Threaded Inserts

Characteristic: 3.9-4.0mm width

Mark: Ruthex [Amazon](#)

Specification: M3

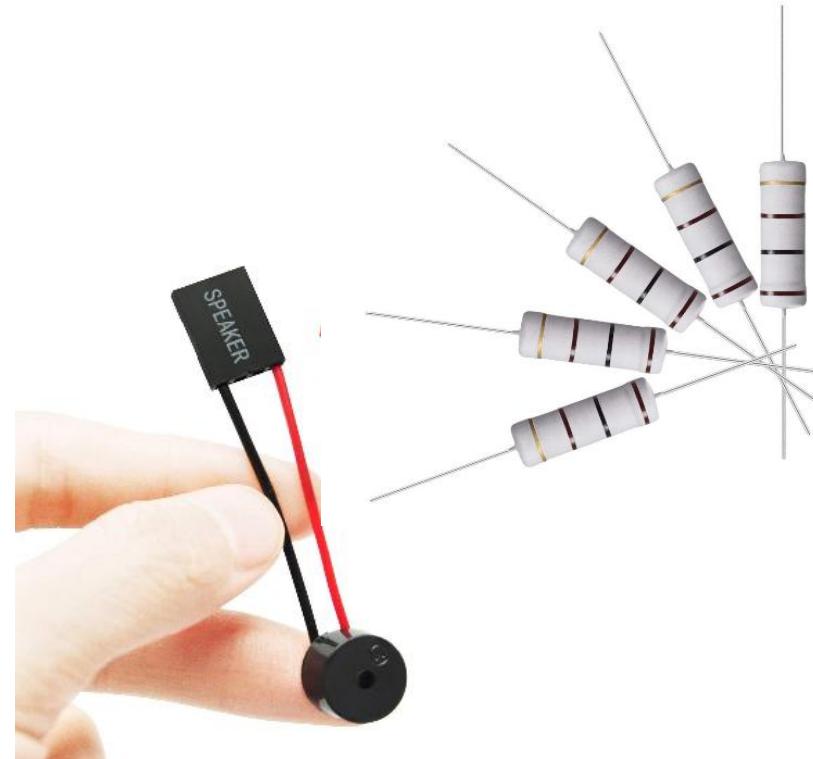


Metal Oxide Film Resistors

Distributor: PATIKIL [Amazon](#)

Characteristic: 100 Ohm 5W

[Amazon.it](#)



Piezo Buzzer

Distributor: ICQUANZX [Amazon](#)

RTC External Battery

Distributor: ZDE [Amazon](#)

Characteristics: Coin Battery CR2025

