ARQUITETURA

# Hardware

## Alimentação

### Regulador chaveado 5V

[Regulador 5V](https://www.digikey.com/en/products/detail/stmicroelectronics/ST1S40IDR/3087736): ST1S40IDR

### Regulador linear 3.3V

[Regulador 3V3:](https://www.digikey.com/en/products/detail/texas-instruments/TPS78533QWDRBRQ1/14123967) TPS78533QWDRBRQ1

## USB

[USB-C: USB4105-GF-A](https://www.digikey.com/en/products/detail/gct/USB4105-GF-A/11198441)

*-* [*Proteção ESD: USBULC6-2M6*](https://www.digikey.com/en/products/detail/stmicroelectronics/USBULC6-2M6/1880233)

*- Proteção na entrada (Analog device – Application Note 1368)*

*- Diodo TVS*

[step-by-step\_USB-interface](https://medium.com/@manuel.bl/usb-for-microcontrollers-part-1-basic-usb-concepts-519a33372cc9)

## Microcontroller

[Link Digi-Key: STM32L412CBT6](https://www.digikey.com/en/products/detail/stmicroelectronics/STM32L412CBT6/9656217)

## Sensores

- Unidade Inercial

[LSM6DSOTR](https://www.digikey.com/en/products/detail/stmicroelectronics/LSM6DSOTR/9586579)

## RF

### Transceiver

[Link Digi-Key: ADF7020BCPZ-RL](https://www.digikey.com/en/products/detail/analog-devices-inc/ADF7020BCPZ-RL/993631)

### Antena

[Antena 433 MHz](https://www.digikey.com/en/products/detail/raltron-electronics/RST-W1A0-10608-22M-FY-002/10273001)

