

STM32 LoRa and SENSOR Input with ADC Circuit

With Analog Front and SMA Sensor Connector

Power Delivery

USB Type C

SMPS (Digital)
+5v to 3v3

LDO (Analog)
+5v to 3v3

Bias Generator
(Op-Amp) 1v65



Microcontroller + LoRa

HSE

TIMER

LORA

I2C

UART

SWD

ADC

LoRa matching/filter network

Output Filter

Output Matching

TX

Input Filter

Input Matching

RX

ADC Circuit

BUFFER

ANTI ALIASING
FILTER

SENSORS

MPU -6050
(IMU)

BME280 (Temp,
Humidity + Pressure)

Connectors and Breakout Pins

SWD Progammer

I2C +UART

BNC ADC SENSOR

BNC LoRa Antenna

Analog Front End

SMA Sensor
Connector

