# STM32-CORTX Integration

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## Introduction

This integration to CORTX involves a Python notebook that would store data streamed from an STM32 device, namely a SensorTile.box, and view its contents after downloading it from the CORTX S3 bucket on AWS. The integration relies on a Bluetooth connection between your desktop and STM32 device. The solution is still under development, as failures are present.

### Installation

#### **Current Solution**

Alongside the Python notebook file, there is a .csv file that was obtained from the ST BLE sensor app. All you need to do is open the notebook file and run it to see it store the .csv file and view the file's contents after downloading it.

#### **Intended Solution**

You need an STM32 device, such as a SensorTile.box or similar that has an STM32 MCU. Ensure sure that the device is sufficiently charged.

Next, ensure that Bluetooth is activated on your desktop.

Then, create an AWS admin account to put in the access key and secret access key. run the notebook on any platform of your choice, including Jupyter Notebook and Google Colab. Ideally, you should view the contents of the .csv file created and stored onto the S3 bucket.

# Video Link

YouTube: https://youtu.be/YP9wC-81WnI