Getting Started Guide Acconeer A121 XE125 Entry+ Module Evaluation Kit

Nov 2023



## **Installation guide**

The XE125 is delivered without SW. This installation quick guide will show you how to get the Acconeer XE125 Exploration Server up and running. For a hands-on instruction video, please visit Acconeer's YouTube channel. <u>Getting</u> started with the XE125 EVK – YouTube

## **Preparing the HW Installation**

The Evaluation kit for Our Entry+ Module (XM125) comes soldered onto a breakout board. All you need is a USB-C cable.

#### XE125 EVK



#### Additionally\*:

USB-C Cable for connection to
PC

\* Not provided by Acconeer.



## **HW Overview**

### XE125 EVK Front and Back Side





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## **Preparing the SW installation**

The following applications will be required to complete an installation. Also, they will be very useful when working with the Radar Sensor Exploration Tool. The Exploration Tool will let you view the data stream in real time. In order to run the Tool you need to install the Exploration Server firmware on the module. Please download and install:

- Acconeer acconeer\_xm125\_exploration\_server\_a121: Available from <a href="https://developer.acconeer.com/">https://developer.acconeer.com/</a>
- Acconeer Exploration tool: <u>https://github.com/acconeer/acconeer-python-exploration</u>

For all users (Windows, Linux):

• Python: Available from <a href="https://python.org/downloads">https://python.org/downloads</a> version 3.11.5 is recommended.

# **Installing Python**

- Start the installer file that you downloaded from python
- Make sure the Add Python to PATH option is selected (Pic 1)
- Click Install Now. No need for a customized Installation (Pic 2)
- Disable Path Length Limit (Pic 3)
- Close once the installation is completed (Pic 4)



# **Installing Exploration Tool**

- 1. In Command Prompt: Run the command: python -m pip install --upgrade acconeerexptool[app]
- 2. You can then start the Exploration Tool by running the following command: python -m acconeer.exptool.app
- Select the sensor version you are running. A121 in this case. See next page.





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## **Installing Exploration Tool**

### • The Exploration Tool will open like the image below



## Start Boot Mode (DFU Mode) for flashing

- Make sure your EVK is connected to the PC with a USB cable
- 2. Press the DFU-button and hold it
- 3. Press the RESET-button and hold it
- 4. Release the RESET-button
- 5. Release the DFU-button

Now the module is in DFU mode and ready to be flashed.





## Flashing

- 1. Unzip the XM125 Exploration Server that you downloaded earlier (page 5)
- 2. Go to the Exploration Tool Window and Click Flash (#1 top image)
- 3. Click Browse (#2) and locate and select your Exploration Server binary file
- 4. Select the correct COM port (See next page)





# Flashing

- 5. Open the Device Manager (#1)
- 6. Select the Enhanced COM port (#2)

7. If no COM ports are found you need to install drivers CP210x USB to UART Bridge VCP Drivers - Silicon Labs (silabs.com)

8. Select the correct Acconeer Module (#3)

#### 9. Click Flash

10. When the flashing is done you need to reset the Module either by pressing the RESET button or by unplugging/replugging the cable

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## **Run the Exploration Tool**

- Double check so that the Enhanced COM port is selceted
- Click Connect button (see image)
- You can now select any of the Detectors or Applications from the menu to the left. If you simply want to familiarize yourself with our sensor you can start by selecting the SparselQ service which provides a raw data stream.



