**Explore the next sense** 



Getting Started Guide Acconeer XM112-XB112 Module Evaluation Kit

#### 如有问题,请通过以下方式联系我们!

#### というでで、

深圳市佰誉达科技有限公司 0755-23282845/23592633 深圳市龙岗区龙城街道腾飞路9号创投大厦3006 www.beyd.com.cn Acconeer中国区总代理



#### Installation guide

The XM112 is delivered non-flashed. This installation quick guide will show you how to get the Acconeer XM112-XB112 Module Evaluation Kit (EVK) up and running. For a hands-on instruction video, please visit <a href="https://www.youtube.com/watch?v=FjYTlySbLZk">https://www.youtube.com/watch?v=FjYTlySbLZk</a>



### **Preparing the HW Installation**

# To complete a successful installation of Acconeer EVK, the following HW components will be required:



#### XB 112 Breakout Board



Additionally\*:

 USB Micro Cable for connection to PC

\* Not provided by Acconeer.



#### **HW Overview**





### **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 EVK. Please download and install:

- Acconeer Module SW Image for XM112: 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):
- Bossa: Available from <a href="https://github.com/shumatech/BOSSA/releases">https://github.com/shumatech/BOSSA/releases</a>
- Python: Available from <a href="https://python.org/downloads">https://python.org/downloads</a>



### Assemble the HW XM112/XB112

- Connect the XM112 Module to the XB112 Breakout Board.
- Connect the USB cable to USB slot #1
- End result in the rightmost picture





#### **Start Boot Mode**

- 1. Press the ERASE-button and hold it.
- 2. Press the NRST-button and hold it.
- 3. Release the NRST-button.
- 4. Release the ERASE-button Now the module is in boot mode





# **Installing BOSSA**

- 1. Open the installer that you have downloaded.
- 2. Follow the instructions in the setup wizard and accept the license agreement. No changes needed.
- 3. Next - Next - Next - Install - Finish



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#### PROPRIETARY AND CONFIDENTIAL

X

Cancel

Cancel



#### Flashing

- 1. Start Bossa
- 2. Choose serial port (Pic 1). The one you have plugged XM112 into.
- Browse and select the module server SW image downloaded from the Acconeer web page. It is located in folder xm112\_module\_software/bin/. (Pic 2,3)
- 4. Make sure *Erase all* AND *Boot to flash* options are selected (Pic 3)
- 5. Click Write and flashing will begin. (Pic 4)





# 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)
- Close once the installation is completed. (Pic 3)





# **Installing Exploration tool**

- Unzip the file downloaded from Acconeer. Acconeer-python-exploration
- Start windows command prompt. (Pic 1) You can always find it by searching for "cmd".
- In the command prompt, change the directory to where you unzipped the exploration tool by typing the command *cd* followed by the path to the folder. (Pic 2)





# **Installing Exploration tool**

- Run the command: pip install --user -r requirements.txt (Pic 1)
- Wait until the installation has finished and run the next command: *python setup.py install --user* (Pic 2)







### **Run the exploration tool**

- You need to start by rebooting the XM112 module.
- Press the NRST button on the XM112 card and hold for 1s.
- Run the following command in the command promt: python examples/services/envelope.py -u [port id] In our example we have used port13.
- The result should be a graph showing the envelope data output from the sensor. Shown in next page.





# Envelope graph



