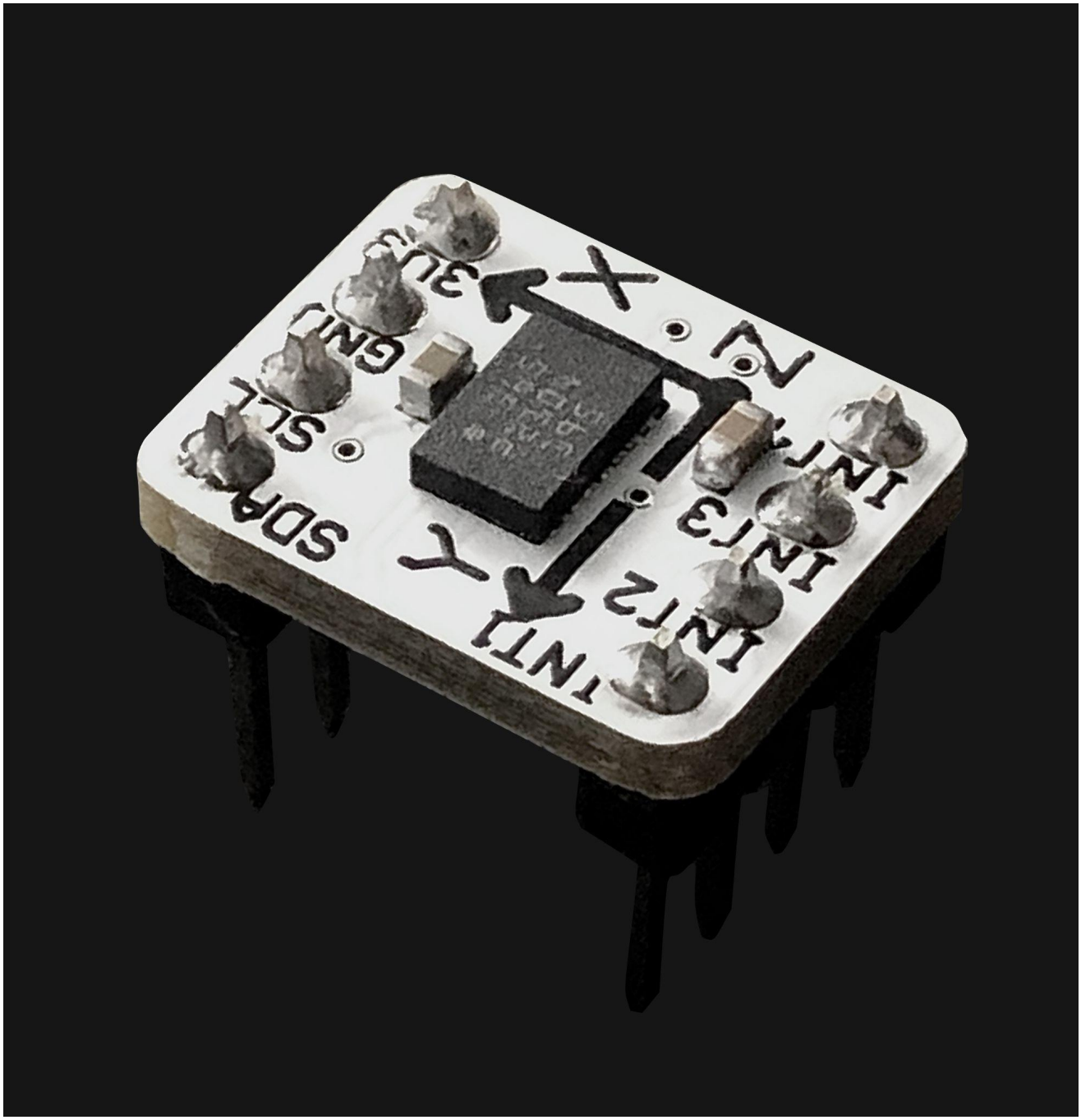
AEROSTRIKE

September 16, 2021

# BMI088 Breakout I2C Version

## Generic Version



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# Overview

## 1.1 Product Overview

The AeroStrike BMI088 Breakout I2C Version has all necessary outputs for I2C communication, power supply, and interrupt pin accessibility. The 3.3V pin accepts 3.3V, DO NOT SUPPLY WITH 5V LOGIC. If you require a version that accepts 5V logic, please email us for specific details (aerostrikeex@gmail.com). This product is open source, and can be viewed at https://github.com/AeroStrike/BMI088-Breakout-Board .

## 1.2 Custom Order Details

We carry a I2C and an SPI version of the breakout board. If you have custom size, weight, or capabilities, please email us and we will be happy to design a new breakout for you for a fee. Please direct these requests to aerostrikeex@gmail.com

## 1.3 Bulk Order Details

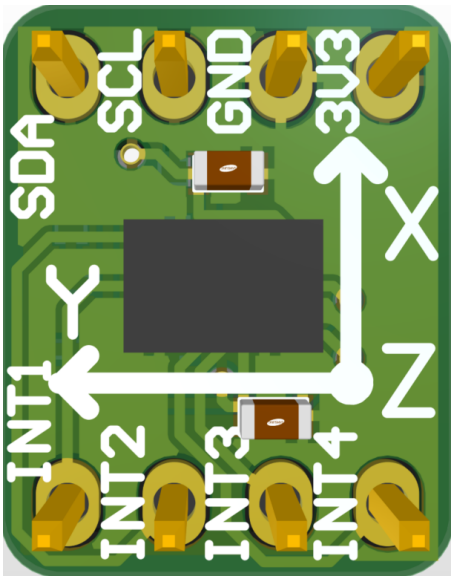
For bulk order details, please contact us at aerostrikeex@gmail.com to check availability. As of September 2021, these sensors are in an extreme shortage, and our supplier only has limited amounts. If you need to order more than what is shown in stock at the AeroStrike Online Shop https://aerostrikeexploration.square.site/ , please contact us.

## 1.4 License And Use Details

This product is open sourced, and is free for use in any application, and is free to modify and change. If you have any suggestions to make to the product, email us at aerostrikeex@gmail.com, and if you use this product for a project, please email us so we can see the cool things that our products are being used for. All we ask is that you give credit where credit is due.

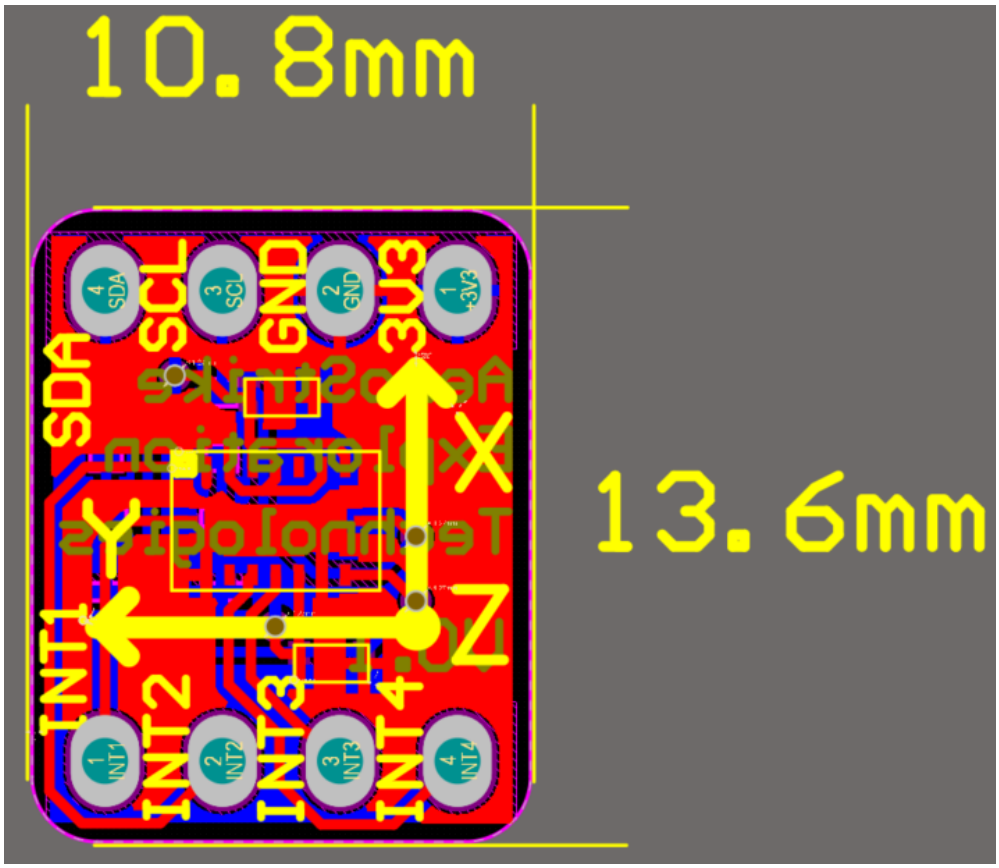
# Technical Specifications

## 2.1 Pin Out Details




- Supply 3V3 pin with 3.3V DC
- For more information on each pin, refer to the BMI088 Datasheet https://www.bosch-sensortec.com/media/boschsensortec/downloads/datasheets/bst-bmi088-ds001.pdf

# 2.2 PCB Dimensions




- Size (PCB): 13.6mm Height x 10.8mm Width x 1.6mm Height
- Weight (With Components): TBD

## 2.3 Important Notes

### 2.3.1 SDA and SCL Jumper Pads

On the back side of the breakout, there are two pads. One connects a pull up resistor to the SDA line, and the other connects a pull up resistor to the SCL line. These will be connected if your design does not already contain these pull up resistors, and open if you already have pull up resistors somewhere else in your SDA and SCL lines. These ship open by default, but if you need them to be closed on delivery, contact aerostrikeex@gmail.com immediately after ordering.

# Contacts, Links, Etc.

## 3.1 Contact Us

If you have any custom order specifications, bulk orders, questions, suggestions, or problems, email us at aerostrikeex@gmail.com .

## 3.2 Links

Email:
aerostrikeex@gmail.com
Company GitHub:
https://github.com/AeroStrike
Product GitHub:
https://github.com/AeroStrike/BMI088-Breakout-Board
BMI088 Datasheet:
https://www.bosch-sensortec.com/media/boschsensortec/downloads/datasheets/bst-bmi088-ds001.pdf
BMI088 Link:
https://www.digikey.com/en/products/detail/bosch-sensortec/BMI088/8634936
AeroStrike Online Store:
https://aerostrikeexploration.square.site/
BMI088 Product Link:
https://aerostrikeexploration.square.site/product/bmi088breakout/1?cs=true&cst=custom

PCBWay PCB Link
https://www.pcbway.com/project/shareproject/BMI088_IMU_I2C_Breakout.html