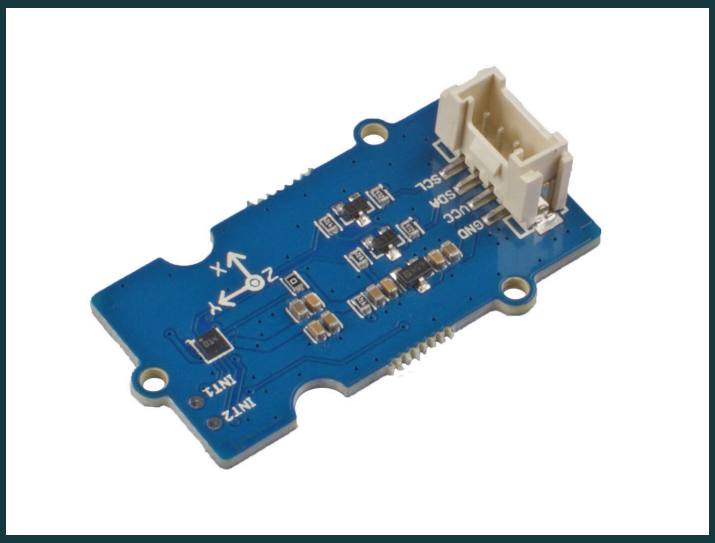
seeed studio

INDUSTRIAL PRODUCT DATASHEET

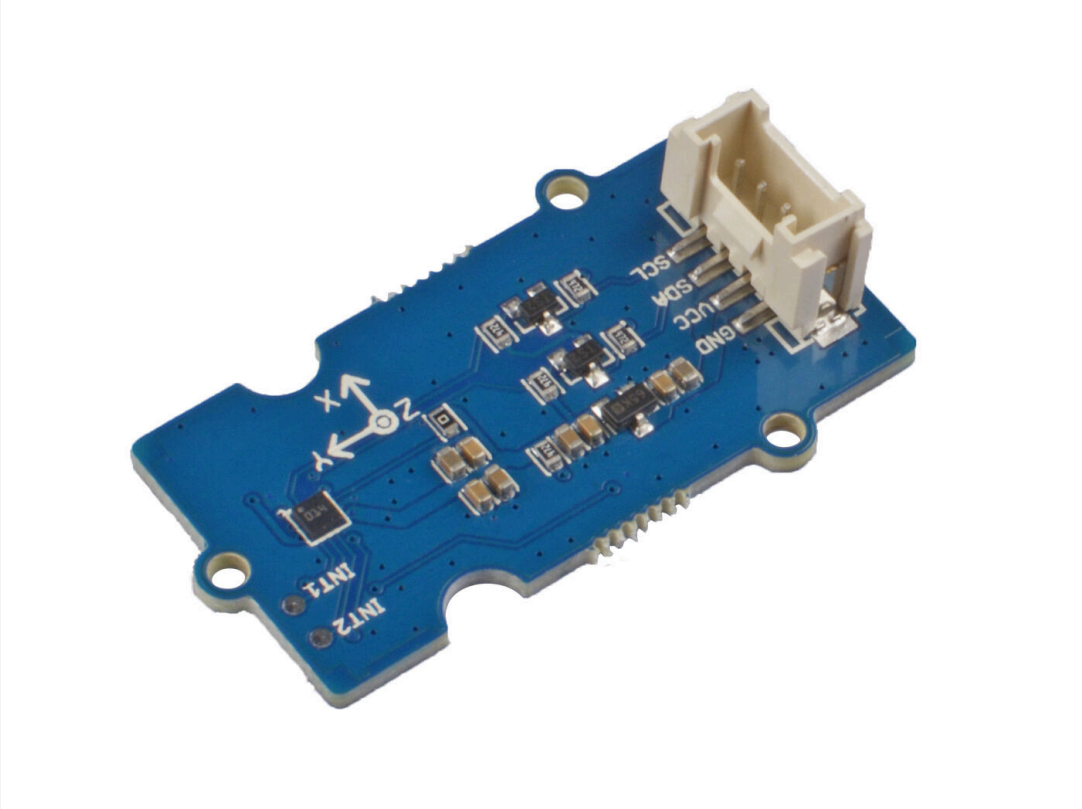
# Grove - Step Counter (BMA456)

Grove - Step Counter (BMA456) is a high-sensitivity, plug-and-play step counter with fast metadata processing for fitness, wearable, and angle measurement applications.

| SKU | UPDATED | PRICE |
| --- | --- | --- |
| 101020583 | 2026-11-03 03:37:20 | $4.90(Excl. VAT) |



# Overview




The Grove - Step Counter (BMA456) delivers high sensitivity in any acceleration range and excellent performance with fast, accurate metadata processing. Its Grove unified socket enables plug-and-play use for applications including fitness/activity tracking, wearable power management, display on/off and profile switching, and high-performance angle measurements.

# Key Features

**01** **High sensitivity**

With the support of BMA456, it has high sensitivity even in any acceleration range.

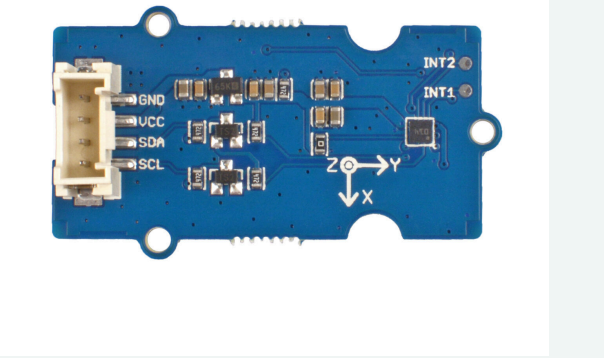
**02** **Excellent performance**

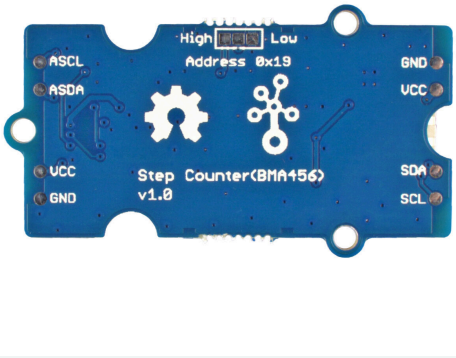
Metadata can be processed quickly and the results obtained are more accurate.

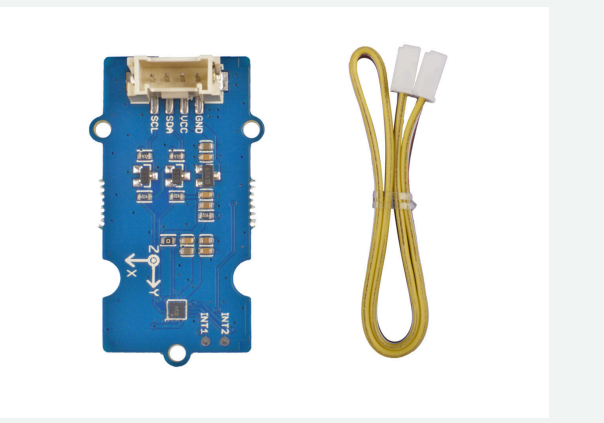
**03** **Grove unified socket**

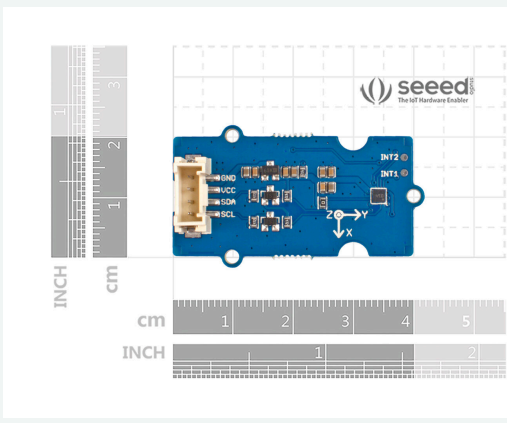
The sensor ensures "Plug and Play" and could be versatile for various applications.

# Product Gallery





# Applications

- **Applications with height constrains**
- **Plug and Play Step-Counter solution with watermark functionality**
- **Fitness applications / Activity Tracking**
- **Power management for wearable applications**
- **Display on/off and profile switching**
- **User interface without hardware buttons**
- **E-compass tilt compensation and data synchronization**
- **High performance angle measurements**

# Resource Links

- https://www.seeedstudio.com/Grove-Step-Counter-BMA456.html
- Grove - Step Counter(BMA456) Eagle Files
- Seeed BMA456 Library
- Datasheet BMA456
- XC6206 DATASHEET

**Seeed Technology Co.,Ltd.**
9F, Building G3, International E City,
Zhongshanyuan Road, Nanshan, Shenzhen, China

**Tel:** +86 0755-80695676
**Web:** www.seeed.cc
**Shop:** www.seeedstudio.com