

INDUSTRIAL PRODUCT DATASHEET

Grove - Step Counter (BMA456)

Grove - Step Counter (BMA456) provides a high-sensitivity, plug-and-play step-counter solution with watermark functionality for fitness and activity tracking.

SKU

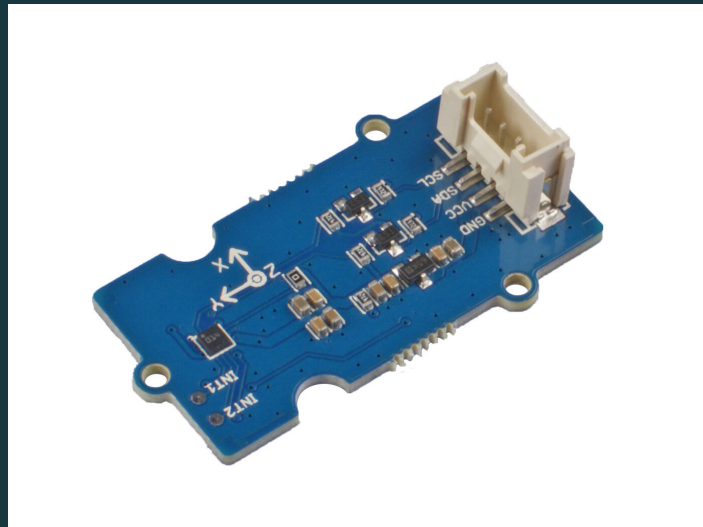
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UPDATED

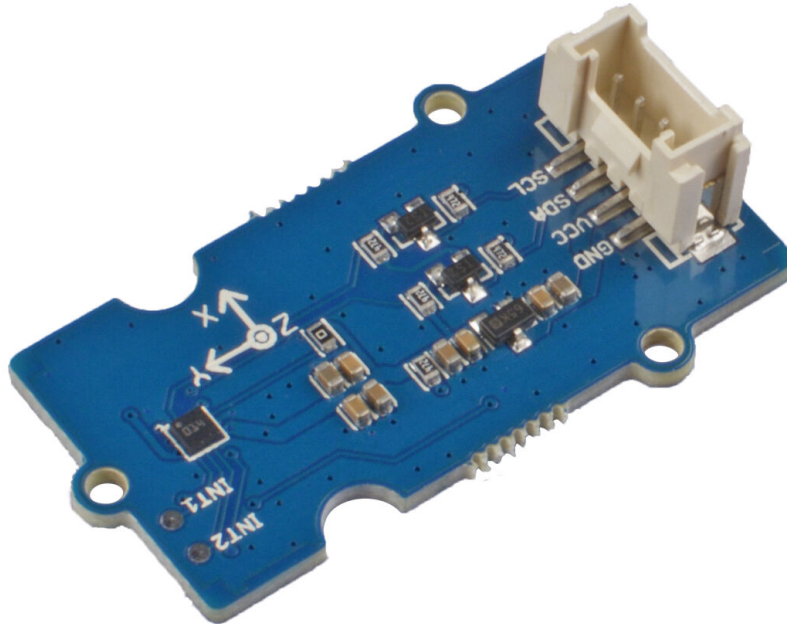
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PRICE

\$4.90(Excl. VAT)



Overview

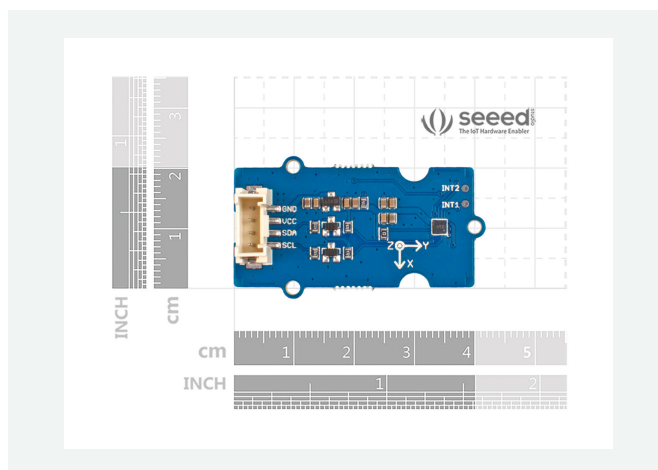
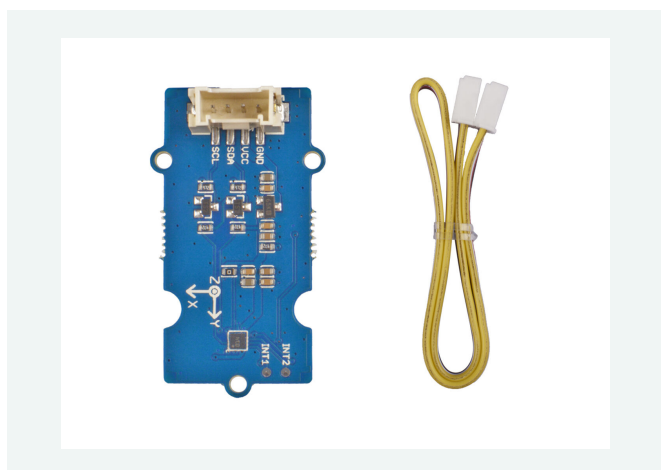
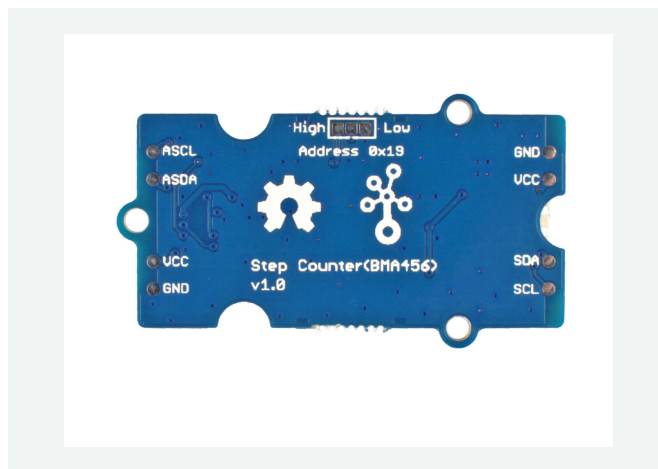
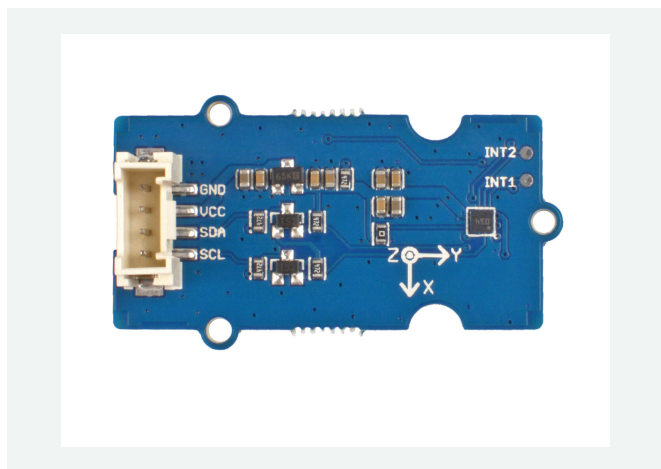


The Grove - Step Counter (BMA456) features high sensitivity, excellent performance, and a Grove unified socket for Plug and Play versatility. It is suitable for fitness applications, activity tracking, power management, and user interface without hardware buttons.

Key Features

- **High sensitivity:** With the support of BMA456, it has high sensitivity even in any acceleration range.
- **Excellent performance:** Metadata can be processed quickly and the results obtained are more accurate.
- **Grove unified socket:** The sensor ensures "Plug and Play" and could be versatile for various applications.

Product Gallery



Specification

Dimensions	40mm x20mm x7mm
Weight	G.W 3.2g
Battery	Exclude
Operating Voltage	3.3V / 5V
Acceleration Range	±2g, ±4g, ±8g, ±16g
Sensitivity	16384 @±2g 8192 @±4g 4096 @±8g 2048 @±16g
Interface	I2C
I2C Address	0x19(default) / 0x18(optional)
Package size	L: 140mm W: 90mm H: 10mm

Applications

- Applications with height constraints
- 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

Part List

Grove - Step Counter(BMA456)	1
Grove Cable	1

Compliance & Logistics



HSCODE	9029900000
USHSCODE	9029908080
UPC	841454121411
EUHSCODE	8543709099
COO	CHINA

Resource Links

- <https://www.seeedstudio.com/Grove-Step-Counter-BMA456.html>
- [Grove - Step Counter\(BMA456\) Eagle Files](#)
- [Seeed BMA456 Library](#)
- [Datasheet BMA456](#)
- [XC6206 DATASHEET](#)

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