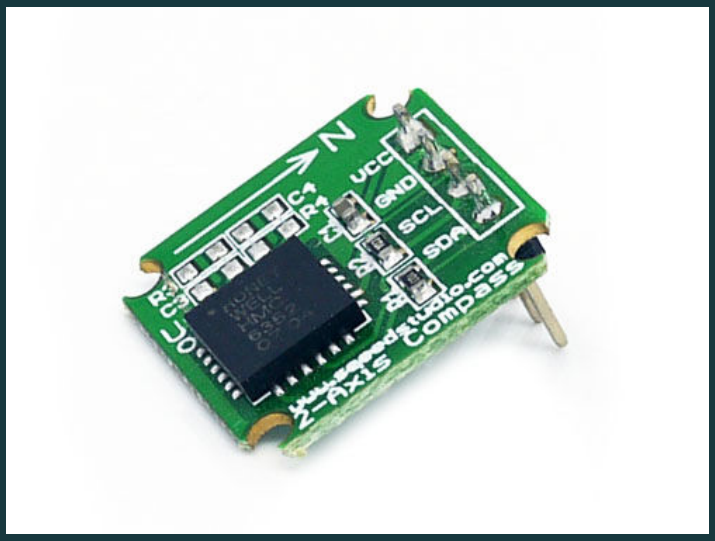
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INDUSTRIAL PRODUCT DATASHEET

2-axis compass Module

The 2-axis Compass Module with HMC6352 sensor provides a compact, low-power digital compass solution with I2C interface for high-volume OEM integration.

SKU	UPDATED	PRICE
SEN101D1P	2024-08-09 02:14:11	$25.00(Excl. VAT)



Overview



The 2-axis Compass Module integrates the HMC6352 two-axis magnetic sensor with processing electronics for a complete digital compass solution. It offers plug-and-play operation with I2C digital interface and selectable heading update rates from 1 to 20Hz for embedded navigation and positioning applications.

Key Features

Description
This is product is no longer for sale, it has been replaced with **Twig - 3-axis Compass.**

The 2-axis compass module integrates HMC6352 two-axis magnetic sensor with the required external circuits for heading computation. For the ultimate in electronic functionality, this innovative electronic compass provides an electronic compass function using two-axis magnetic field sensing. To speed your design cycle, the HMC6352 is easy to use as a drop in, plug and play component.

The 2-axis compass Module combines the sensor elements and all the processing electronics in a 6.5mm square package to satisfy smaller, next generation applications. Aimed for low power battery operation on OEM printed circuit boards, the HMC6352 uses a I2C digital interface slaved to the manufacturer's microprocessor to transfer compass heading data. Heading update rates from 1 to 20Hz are selectable.

Technology and Product Features

* 2-Axis Magnetic Sensors with Electronics and Microprocessor
* Fully Integrated Compassing Solution
* Integrated Compassing Algorithms and Calibration Routines
* Miniature (6.5 by 6.5 by 1.4mm) 24-Pin LCC Package
* 2.7 to 5.2 volt Supply Range (Good for Low Power Battery Operation on OEM PCBs)
* I2C Digital Interface
* User Selectable Slave Address Permits Multiple Sensors on Bus Interface
* Drop-in, plug and play feature Allows for more High volume production

Typical Customer Applications

* General 2-axis compass applications
* Compassing in GPS applications
* Personal Navigation
* Vehicle Telematics
* Satellite Dish Antenna Positioning
* Wireless Phones with Compassing

Documents

Please visit our **wiki page** for more info about this product. It will be appreciated if you can help us improve the documents, add more demo code or tutorials. For technical support, please post your questions to our **forum**.
Technical Details
Technical details

Resource Links

- **https://www.seeedstudio.com/2-axis-compass-Module-p-235.html**

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