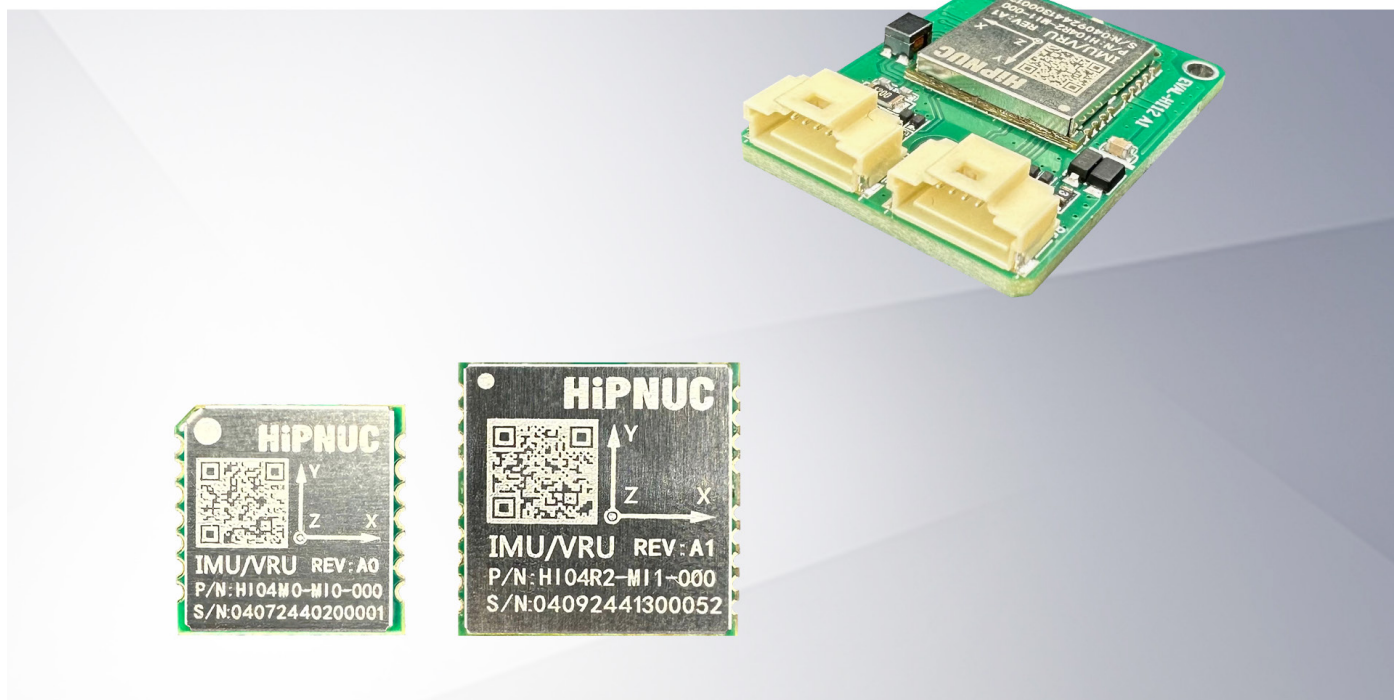


# HI04 Series

Small Size、 High Performance、 MEMS- IMU/VRU/AHRS



Attitude Measuring System utilizes an array of MEMS IMU/VRU/AHRS modules with geomagnetic field and sensing the attitude information of objects, equipped with the independent R&D Extended Kalman Filter Fusion Algorithm and IMU noise dynamic analysis technology, which can meet High accuracy of attitude angles in high dynamic conditions.

## Application



AGV/AMR



Agricultural Machinery



Lawn Mower



Inspection Robots



Exoskeleton Robot



Unmanned Delivery

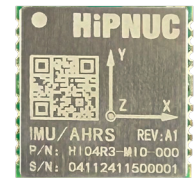
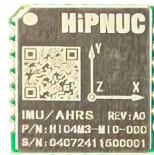


Service Robot

## Product Selection

### MODEL

P/N	HI04M0-MI0-000	HI04M3-MI0-000	HI04R2-MI1-000	HI04R3-MI0-000
IMU	√	√	√	√
VRU	√	√	√	√
AHRS	×	√	×	√



### PHYSICAL & ENVIRONMENTAL

Input Voltage	All Supports 3.3-5V			
Power Consumption	<160mW	<160mW	<250mW	<250mW
Dimension	12.1X12.1X2.5mm	12.1X12.1X2.5mm	15x15x2.5mm	15x15x2.5mm
Weight	0.8g	0.8g	1.1g	1.1g
Certification	All Supports Rohs CE			
Temperature	All Supports -40-85°C			

### INTERFACE

Communication	UART	UART	UART+CAN	UART
Protocols	All Supports Binary,Modbus,CANopen			

### GYROSCOPE

Range	All Supports 2000° /s			
Bias Instability	3° /h	3° /h	1.6° /h	1.6° /h
Bias Stability	10° /h	10° /h	5° /h	5° /h

### ACCELEROMETER

Range	All Supports 24g			
Bias Instability	0.03mg	0.03mg	0.018mg	0.018mg
Bias Stability	0.07mg	0.07mg	0.035mg	0.035mg

### MAGNETIC

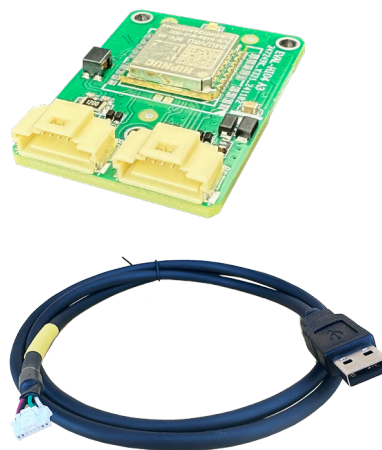
Range	All Supports 20Gauss			
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### ACCURACY

Pitch/Roll	0.15°			
Heading(VRU)	0.3°	0.3°	0.15°	0.15°
Heading(AHRS)	-	2°	-	2°

Note 1:Refer to datasheet for more details

## Evaluate Kit



The HI04 series evaluation board can be connected to the PC GUI via a USB cable. The GUI can help users quickly evaluate the product.

## HiPNUC Service

### Quality Warranty

HiPNUC provide users with free technical support and free firmware upgrade services throughout the product life cycle. The warranty period is 2 years, Longer Quality Warranty for HiPNUC Product

### Contact HiPNUC

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HI04

