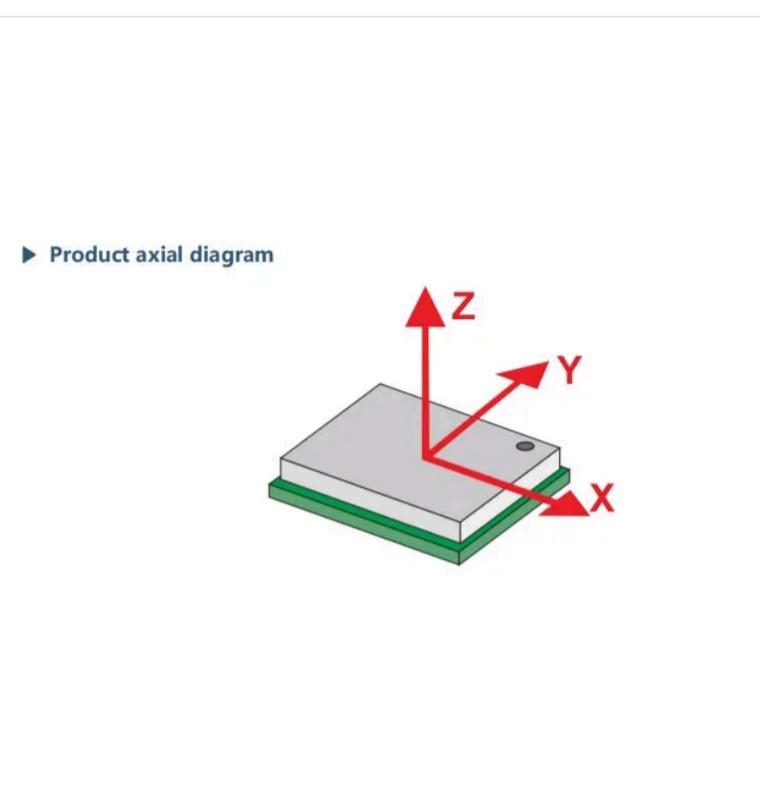


Products

Home / Products



Imu400 Multi Axis Inertial Navigation Module Ins Ttl Interface

Product Details

Place Of Origin: China

Brand Name: RION

Certification: CE, FCC, ROHS, ISO

Model Number: IMU400

Payment & Shipping Terms

Minimum Order Quantity: 100pcs

Price: US\$29.50

Packaging Details: Carton With Safety Sponge

Delivery Time: 5-10 Days

Payment Terms: T/T Or Paypal

[Get Best Price](#)

[Chat Now](#)

Specifications

Description

Specifications

Highlight: imu400 inertial navigation module, multi axis inertial navigation module, ins ttl inertial navigation module

Triaxial Attitude:	Azimuth Angle ±180°, Roll ±180°, Pitch ±90°	Operational Bandwidth:	>100Hz
Resolution:	0.01°	Triaxial Gyro Range:	250°/s
Gyro Bias Instability(allan):	4.5°/h	Gyro Angle Random Walk Coefficient(allan):	0.25°/sqrt(h)
Gyro Bias Stability(10s Mean Value):	8.5°/h	Gyro Bias (@Temp. -10°C~+65°C):	±0.25°/s (RMS)
Accelerometer Range:	±4g / ±8g(optional)	Accelerometer Resolution:	0.001g
Accelerometer Accuracy:	1mg	Accelerometer Bias Instability(allan):	0.05mg
Accelerometer Speed Random Walk Coefficient(allan):	0.015m/s/sqrt(h)	Accelerometer Bias Stability(10s Mean Value):	0.15mg
Starting Time:	500ms	Input Voltage:	DC3.3V(Ripple<50mVpp)
Current:	70mA	Working Temperature:	-40 ~ +80°C
Storage Temperature:	-40 ~ +80°C	Working Life:	10 Years
Output Rate:	5Hz、15Hz、25Hz、35Hz、50Hz、100Hz Can Set	Output Signal:	3.3V-TTL
MTBF:	≥98000 Hours/time	Size:	L20.4×W14.8×H4.1mm
Weight:	≤5g	For:	For Automated Agriculture Machinery Interf

Description

Imu400 Multi Axis Inertial Navigation Module Ins Ttl Interface

IMU400 Multi Axis Inertial Navigation Module INS TTL Interface For Automated Agriculture Machinery Intergrated

► GENERAL DESCRIPTION

IMU400 is a gyroscope IMU specialized in agricultural machinery autopilot navigation applications, built-in industrial three-axis gyroscope and three-axis accelerometer. The product can still output smooth attitude data in the case of high vibration characteristics of agricultural machinery. It is developed based on MEMS inertial measurement platform. Through the dynamic attitude algorithm of the angular rate of the gyroscope, real time output the dynamic inclination, horizontal azimuth, three-axis angular rate, three-axis acceleration and forward axial body acceleration of the object ; It can also provide real-time feedback counting output through Z-axis single axis integral output to make the front wheels of agricultural machinery turn at a precise angle; This product is specially used for automatic agricultural machinery, precision operation, and efficiency. It is an essential component of the new generation of automatic precision agricultural control.

► KEY FEATURES

- ★ Horizontal azimuth angle & attitude angle output
- ★ Real time output angular rate
- ★ Light weight
- ★ Long life, strong stability
- ★ Forward axis acceleration output
- ★ All solid state
- ★ Compact & light design
- ★ TTL output
- ★ 3.3VDC power supply

► APPLICATION

- ★ Automated agricultural machinery
- ★ Precision agriculture
- ★ Combination harvester
- ★ Cultivator

► SPECIFICATION

IMU400		Parameters
Triaxial attitude		Azimuth Angle ±180°, Roll ±180°, Pitch ±90°
Operational bandwidth		>100Hz
Resolution		0.01°
Nonlinear		0.1% of FS
Gyro	Triaxial gyro range	250°/s
	Bias instability(allan)	4.5°/h
	Angle random walk coefficient(allan)	0.25°/sqrt(h)
	Bias stability(10s mean value)	8.5°/h
	Gyro bias(@Temp. -10°C~+65°C)	±0.25°/s(RMS)
Accelerometer	Range	±4g / ±8g(optional)
	Resolution	0.001g
	Accuracy	1mg
	Bias instability(allan)	0.05mg
	Speed random walk coefficient(allan)	0.015m/s/sqrt(h)
	Bias stability(10s mean value)	0.15mg
	Starting time	500ms
Input voltage		DC3.3V(Ripple<50mVpp)
Current		70mA
Working temperature		-40 ~ +80°C
Storage temperature		-40 ~ +85°C
Vibration		5g~10g
Impact		200g pk, 2ms, ½ sine
Working life		10 years
Output rate		5Hz, 15Hz, 25Hz, 35Hz, 50Hz, 100Hz can set
Output signal		I2C / TTL

 Shenzhen Rion Technology Co., Ltd.

 Alice@rion-tech.net

 86-156-25295088



Home

Products ▾

About Us ▾

News

Cases

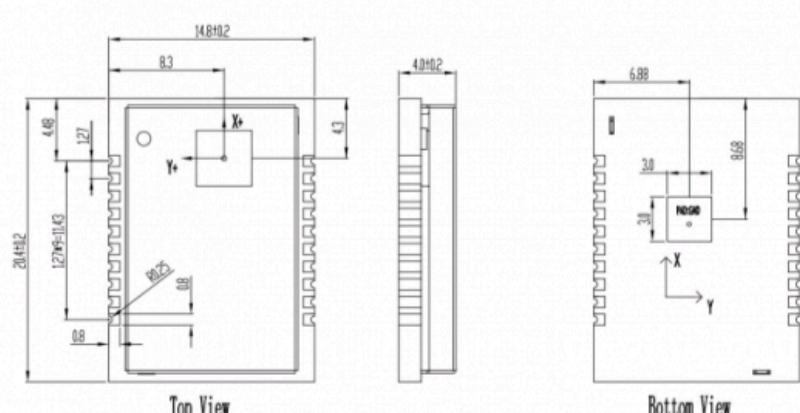


English

Chat

IMU400-STD4 INERTIAL NAVIGATION MODULE

► SIZE



Size : L20.4×W14.8×H4.1mm

**Tags:**

High Resolution mems imu sensor IMU MEMS Inertial Measurement Unit

Similar Products



Rion Imu400 9 Axis Inertial Navigation Module For
Automated Agriculture Machinery

[Get Best Price](#)



IMU406 Inertial Navigation Module Platform Attitude
Accurate Measurement

[Get Best Price](#)

IMU400-STI
Driving Navi

Send your inquiry to us

Enter your E-mail

[Send](#)

Send your inquiry

Please send us your request and we will
reply to you as soon as possible.



About

- [Company Profile](#)
- [Factory Tour](#)
- [Quality Control](#)
- [Contact Us](#)
- [SiteMap](#)
- [Privacy Policy](#)

Products

- [Tilt Sensor Inclinometer](#)
- [Dynamic Inclinometer](#)
- [High Accuracy Digital Inclinometer](#)
- [2 Axis Digital Inclinometer](#)
- [Analog Inclinometer](#)
- [Wireless Inclinometer](#)

Contact Us

- Alice@rion-tech.net
- [86-156-25295088](tel:86-156-25295088)
- [Block 1, COFCO\(FUAN\) Robotics Industrial Park ,
Da Yang Road No. 90, Fuyong Distict, Shenzhen
City, China](#)



China Good Quality Tilt Sensor Inclinometer Supplier. Copyright © 2026 Shenzhen Rion Technology Co., Ltd. . All Rights Reserved.

