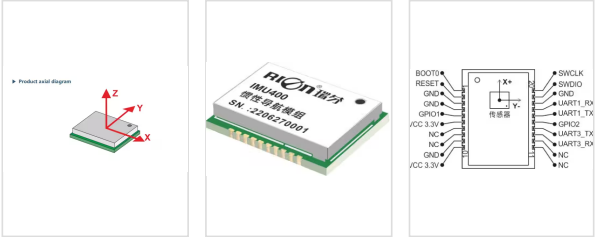




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► **Product axial diagram**



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

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SpecificationsDescription

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 Agricultura Machinery Interç

Description

Imu400 Multi Axis Inertial Navigation Module Ins Ttl Interface

IMU400 Multi Axis Inertial Navigation Module INS TTL Interface For Automated Agricultura 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

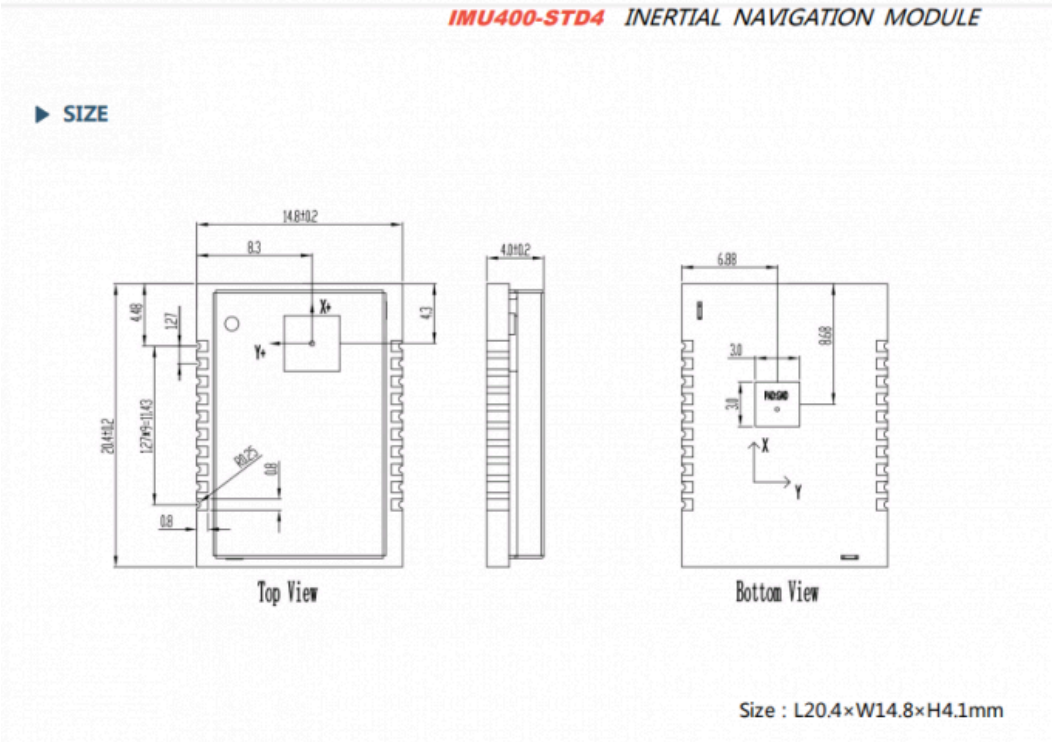
► SPECIFICATION

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	Test conditions @4g range	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,½sine
Working life			10 years
Output rate			5Hz,15Hz,25Hz,35Hz,50Hz,100Hz can set
Output signal			3.3V TTL

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Tags:

High Resolution mems imu sensorIMUMEMS Inertial Measurement Unit

Similar Products

Rion Imu400 9 Axis Inertial Navigation Module For Automated Agricultura Machinery

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