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IMU288 Miniature 6DoF MEMS (https://www.skymems.com/products imu288-miniature-6dof-mems-imu/)



IMU288 Miniature 6DoF MEMS IMU

- Dynamic Range: Gyro $\pm 450^\circ/\text{s}$, Acc $\pm 16\text{g}$
- Bias Instability: Gyro $1^\circ/\text{h}$, Acc $30\mu\text{g}$
- Full Temperature Range Accuracy Assured: Built-in High Performance Temperature Calibration and Compensation Algorithm
- UART Interface, Output rate up to 2000Hz
- Compact and Light weight: $25 \times 25 \times 10.5\text{mm}$, 15 grams

- Working Temperature: -40~+85°C



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Product Categories



Brief Introduction

IMU288 Inertial Measurement Unit is a high performance tactical grade MEMS Inertial Measurement Unit, it is composed of 1°/h (Allan) bias stability MEMS gyroscope and 30µg (Allan) bias stability MEMS accelerometer, which can output precise 3-axis angular rates, 3 axis acceleration data and temperature data.

IMU288 Inertial Measurement Unit adopts latest MEMS technology and advanced MEMS components, which reduces the cost deeply. The system enjoys small size and light weight, and it has been widely applied in unmanned aircraft, autonomous vehicles, platform stabilization, unmanned robotics, etc.

Technical Specifications

Typical Application

- Robotics
- Unmanned Aircraft
- Platform Stabilization
- Autonomous Vehicle

Product Advantages

Why Selecting IMU288 Inertial Measurement Unit?

IMU288 Miniature 6DoF MEMS IMU is designed and produced by SkyMEMS, it enjoys high performance and accuracy, small-size, and high reliability with competitive price. It is a tactical inertial measurement unit sensor, which has the main following advantages:

1. High Accuracy, High Performance , small size and Powerful Functions

IMU288 Inertial Measurement Unit is a precision 6 DoF MEMS inertial measurement unit, which enjoys excellent technical advantages:

- High Precision 6 DoF MEMS IMU
- Dynamic Range: Gyro $\pm 450^\circ/\text{s}$, Acc $\pm 16\text{g}$

- Bias Instability: Gyro 1°/h, Acc 30ug
- Full Temperature Range Accuracy Assured: Built-in High Performance Temperature Calibration and Compensation Algorithm
- UART Interface, Output rate up to 2000Hz
- Compact and Light weight: 25 × 25 × 10.5mm, 15 grams
- Working Temperature: -40~+85°C

IMU288 Inertial Measurement Unit adopts big brand components, high-class glue encapsulation, advanced production craft, and fully calibrated, which assured that our products have real actual precise and perfect performance.

2. Aerospace Level Reliability, 12-step Strictest Quality Control

We have advanced product test team and measurement equipment, and we cherish the quality as the life of the company, all our products must pass the strictest quality control procedures, our unique 12-step quality control assures our products enjoy top level quality.

3. Competitive Price, ODM supported

With strict cost control and massive production, we can provide the most competitive cost-effective prices, and we have abundant ODM service experience for customers around the world, that is why we can build up long term win-win cooperation with our customers.

4. Successful Applications in many Fields, 200+ Customers are Using

We are continuously focusing on MEMS measurement & control technologies. IMU288 has been widely used in Autonomous Vehicle, Platform Stabilization, etc. And now more than 200 customers are using our IMU around the world.

5. World-class Production Line, Fast Delivery

We have the world class production line to assure that the production procedures are scientific, precise, and normative, which also can assure our products to be fast delivered.

6. Service with Heart, Professional Technical Support

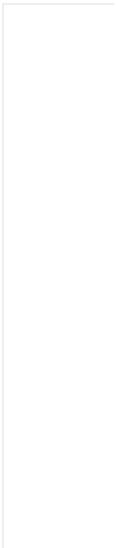
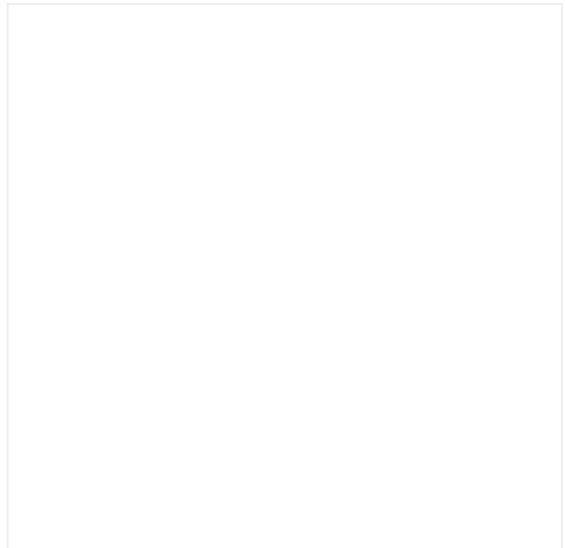
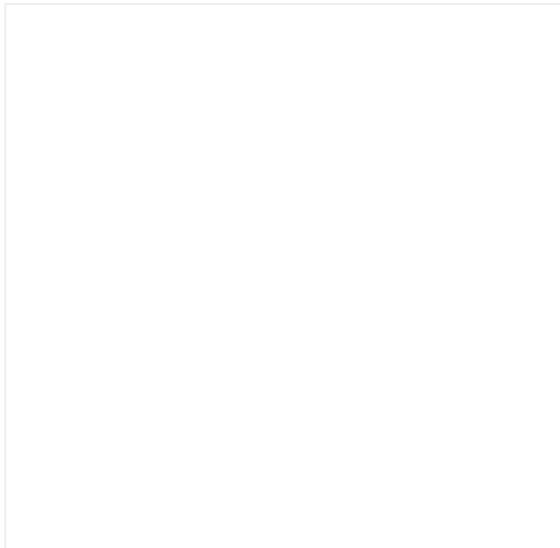
We have the professional technical support engineer team, which can provide 24-hour technical support and excellent after-sale service.

Serving customers with heart is the principle of SkyMEMS, Customer demand is the fundamental driving force of our development.

We treat our customers with heart, customers' satisfaction is the direction and target of SkyMEMS. Through continuously technology innovation and service upgrading, we will realize win-win cooperation with customers.

FAQ

Related Products



IMU80 6DoF Mini IMU
(<https://www.skymems.com/products imu80>)

IMU90 High Precision 6DoF Mini IMU
(<https://www.skymems.com/products imu90>)

IMU188 I
(<https://www.skymems.com/products imu188>)

Read more
(<https://www.skymems.com/products imu80>)

Read more
(<https://www.skymems.com/products imu90>)

Read more
(<https://www.skymems.com/products imu188>)

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- Fiber Optic Gyro(/product-category/fiber-optic-gyro/)
- MEMS Accelerometer(/product-category/mems-accelerometer/)
- Tilt Sensor(/product-category/inclinometer/)

› Integrated Navigation System(/product-category/gnss-ins/)

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