

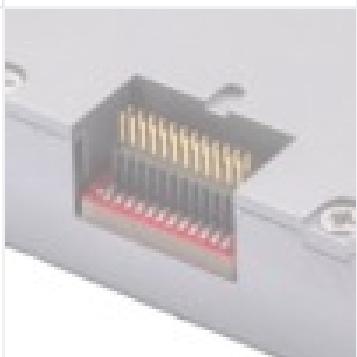
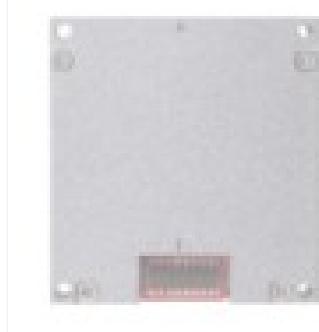


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IMU485 10DoF MEMS IMU(https://www.skymems.com/products/imu485-10dof-mems-imu/)



## IMU485 10DoF MEMS IMU

- Precision 10DoF IMU, Pin to Pin Replace ADIS16485
- Range (Typical) : Gyro  $\pm 450^\circ/\text{s}$ , Accel  $\pm 16\text{g}$
- Bias Instability (Allan) : Gyro:  $2^\circ/\text{h}$ , Accel  $35\mu\text{g}$
- Full Temperature Range Accuracy Assured
- High Bandwidth(Typical) : 200Hz
- UART and SPI, SPI Output Rate up to 2000Hz
- Small Size & Light Weight:  $47 \times 44 \times 14 \text{ mm}$ , 50g
- Working Temperature:  $-40\text{~}+85^\circ\text{C}$



Contact



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## Product Categories



## Brief Introduction

IMU485 is a high performance MEMS Inertial Measurement Unit, which MEMS gyroscope enjoys  $2^\circ/\text{h}$  (Allan) bias instability and MEMS accelerometer enjoys  $35\mu\text{g}$  (Allan) bias instability, and it can output precise 3 axis outputs of angular rate, 3 axis acceleration data, 3 axis magnetometer data, and barometer data, etc.

IMU485 adopts latest MEMS technology and advanced MEMS components, and IMU485 has been produced in bulk, which reduces the cost deeply. IMU485 enjoys excellent measurement performance, small size, light weight, and high reliability and robustness, it can output precise measurement data in

harsh environment, and it has been widely applied in tactical unmanned aircraft, surface vehicle, platform stabilization, industrial robotics, etc.

# Technical Specifications



# **Typical Application**

- Unmanned Aircraft
- Industrial Robotics
- Smart Agriculture
- Platform Stabilization

# **Product Advantages**

## **FAQ**

## **Related Products**

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

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

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

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

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

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

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## CateGories

- Inertial Measurement Unit(/product-category/imu/)
- Electronic Compass(/product-category/e-compass/)
- 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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## News

**What is a fiber optic gyro, and how does it work? (<https://www.skymems.com/what-is-a-fiber-optic-gyro-and-how-does-it-work/>)**

2026-02-05

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**What is the difference between MEMS and piezo accelerometers? (<https://www.skymems.com/what-is-the-difference-between-mems-and-piezo-accelerometers/>)**

2026-01-23

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**What is the difference between a fiber optic gyro and a ring laser gyro? (<https://www.skymems.com/what-is-the-difference-between-a-fiber-optic-gyro-and-a-ring-laser-gyro/>)**

2026-01-16

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