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Product Categories



IMU stands for Inertial Measurement Unit. It is a device that consists of a combination of sensors, such as accelerometers, gyroscopes, and magnetometers, which are used to measure the acceleration, orientation, and angular velocity of an object. IMUs are commonly used in a variety of applications, including robotics, drones, virtual reality systems, and mobile devices. They are particularly useful for providing real-time information about the position and movement of an object in space, even when the object is not in contact with a fixed reference frame. IMUs are also often used in conjunction with other sensors, such as GPS and barometers, to provide even more accurate and reliable measurements. Get More information About Our selling Navigation Grade IMU here (https://skymems.com/what-is-a-navigation-grade-imu-and-how-does-it-differ-from-other-types-of-imus/).

(<https://www.skymems.com/products imu80-6dof-mini-imu/>)



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

- High Precision 6 DoF Mini IMU with Full Calibration
- Fully Similar as ADIS16460, Better Performance
- Range (Typical): Gyro $\pm 400^\circ/\text{s}$, Accelerometer $\pm 8\text{g}$
- Bias Instability (Allan): Gyro $3^\circ/\text{h}$, Accelerometer $50\mu\text{g}$
- Interface: SPI (2000Hz), UART (200Hz)
- Compact and Light weight, $23.3 \times 22.4 \times 7.5$ mm, < 15 grams
- Wide Working Temperature: $-40^\circ\text{C} \sim +85^\circ\text{C}$

(<https://www.skymems.com/products imu90-high-precision-6dof-mini-imu/>)



(<https://www.skymems.com/products imu90-high-precision-6dof-mini-imu/>)

IMU90 High Precision 6DoF Mini IMU

(<https://www.skymems.com/products imu90-high-precision-6dof-mini-imu/>)

- High Precision 6 DoF Mini IMU with Full Calibration
- Range (Typical) : Gyro $\pm 500^\circ/\text{s}$, Accel $\pm 16\text{g}$
- Bias Instability (Allan) : Gyro $1.5^\circ/\text{h}$, Accel: $35\mu\text{g}$
- Data Output Rate: UART 1000Hz, SPI up to 1000Hz
- Power Supply: 3.3 VDC
- Compact and Light weight $23.3 \times 22.4 \times 7.5\text{mm}$, <15g
- Wide Working Temperature: $-40^\circ\text{C} \sim +85^\circ\text{C}$

(<https://www.skymems.com/products imu188-miniature-6dof-mems-imu/>)



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IMU188 Miniature 6DoF MEMS IMU

(<https://www.skymems.com/products imu188-miniature-6dof-mems-imu/>)

- Precision 6 Dof IMU with High G capable to 10000g
- Dynamic Range: Gyro $\pm 450^\circ/\text{s}$, Acc $\pm 16\text{g}$
- Bias Instability: Gyro $1.2^\circ/\text{h}$, Acc $50\mu\text{g}$
- Full Temperature Range Accuracy Assured
- High Bandwidth, RS422, up to 2000Hz Data Output
- Compact and Light weight, $24.95 \times 22.39 \times 8.1\text{mm}$, 22 grams(with wire)
- Working Temperature: $-40\text{~}+85^\circ\text{C}$

(<https://www.skymems.com/products imu286-automotive-grade-6dof-mems-imu/>)

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IMU286 Automotive Grade 6DoF MEMS IMU

(<https://www.skymems.com/products imu286-automotive-grade-6dof-mems-imu/>)

- Automotive Grade 6DoF IMU Sensor, Easy to Integrate
- Strictly Factory Calibrated at Full Temperature
- Pass 2000km All-Terrain Vehicles Tests
- Range (Typical): Gyro $\pm 450^\circ/\text{s}$, Acc $\pm 16\text{g}$
- Bias Instability (Allan): Gyro $1.2^\circ/\text{h}$, Acc $50\mu\text{g}$
- High Bandwidth (Typical): 200Hz

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IMU388 Tactical 6DoF MEMS IMU (<https://www.skymems.com/products imu388-tactical-6dof-mems-imu/>)

- High Precision Tactical 6DoF MEMS IMU Sensor
- Range (Typical) : Gyro $\pm 500^\circ/\text{s}$, Accel $\pm 40\text{g}$
- Bias Instability (Allan): Gyro: $0.6^\circ/\text{h}$, Accel $30\mu\text{g}$
- Strict Factory Calibration, Full Temp. Compensation
- High Bandwidth (Typical): 200Hz, RS422 Interface
- Proven Reliability, Dependability and Ruggedness
- Compact Size: $33.5 \times 25.5 \times 15 \text{ mm}^3$

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IMU485 10DoF MEMS IMU (<https://www.skymems.com/products 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

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IMU488M High Performance 10DoF MEMS IMU

(<https://www.skymems.com/products imu488m-high-performance-10dof-mems-imu/>)

- Precision 10DoF MEMS IMU, Pin to Pin Replace ADIS16488
- Range (Typical): Gyro $\pm 450^\circ/\text{s}$, Accel $\pm 16\text{g}$
- Bias Instability (Allan): Gyro: $1^\circ/\text{h}$, Accel $30\mu\text{g}$
- Full Temperature Range Accuracy Assured
- High Bandwidth (Typical) : 200Hz
- UART and SPI, SPI Output Rate up to 2000Hz

(<https://www.skymems.com/products imu588-precision-6dof-mems-inertial-measurement-unit/>)

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IMU588 Precision 6DoF MEMS Inertial Measurement Unit

(<https://www.skymems.com/products imu588-precision-6dof-mems-inertial-measurement-unit/>)

- Precision 6DoF MEMS Inertial Measurement Unit
- Range (Typical): Gyro $\pm 450^\circ/\text{s}$, Accel $\pm 16\text{g}$ (Z axis $\pm 50\text{g}$)
- Bias Instability (Allan): Gyro: $1^\circ/\text{h}$, Accel $30\mu\text{g}$ ($\pm 16\text{g}$)
- Full Temperature Range Accuracy Assured
- High Bandwidth(Typical) : 200Hz
- UART and SPI, SPI Output Rate up to 2000Hz

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IMU688M High Precision 10DoF MEMS Inertial Measurement Unit

(<https://www.skymems.com/products imu688m-high-precision-10dof-mems-inertial-measurement-unit/>)

- High Precision 10DoF MEMS Inertial Measurement Unit
- Range (Typical): Gyro $\pm 450^\circ/\text{s}$, Accel $\pm 16\text{g}$
- Bias Instability (Allan) : Gyro: $0.6^\circ/\text{h}$, Accel $20\mu\text{g}$
- Full Temperature Range Accuracy Assured
- High Bandwidth(Typical) : 200Hz
- UART and SPI, SPI Output Rate up to 2000Hz

(<https://www.skymems.com/products imu5000-robust-precision-10dof-inertial-measurement-unit/>)

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IMU5000 Robust Precision 10DoF Inertial Measurement Unit

(<https://www.skymems.com/products imu5000-robust-precision-10dof-inertial-measurement-unit/>)

- Robust Precision 10DoF Inertial Measurement Unit
- Range (Typical) : Gyro $\pm 4000^\circ/\text{s}$, Accel $\pm 30\text{g}$ (X, Y), $\pm 150\text{g}$ (Z)
- Bias Instability: Gyro: $1^\circ/\text{h}$, Accel: $30\mu\text{g}$ (X, Y: $\pm 30\text{g}$), $120\mu\text{g}$ (Z: $\pm 150\text{g}$) (Allan)
- Full Temperature Range Accuracy Assured
- High Bandwidth (Typical) : 200Hz
- Working Temperature: $-40\sim+85^\circ\text{C}$

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Contact Us

+86-025-83356968(tel:+86-025-83356968)

+86 133 7203 8516(https://wa.me/8613372038516)

sales@skymems.com(mailto:sales@skymems.com)

Zhongshan South Road,Qinhuai District,Nanjing City,China

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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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