

## Xsens Sirius IMU

- Achieve new levels of accuracy with high-quality calibrated IMU data
- > Vibration- and shock- resistant signal pipeline
- > Rugged and military standard certified
- > Flexible interfaces and protocols for seamless integration



## **Description**

The Xsens Sirius IMU features vibration- and shockresistant signal pipeline and offers high-quality calibrated inertial data, even in extreme vibration conditions.

With Xsens technology inside, the all-in-one sensor system supports optimized temperature calibration, high frequency output, robustness against magnetic disturbances, and has configurable output settings for synchronization with any third-party device.

The Xsens Sirius IMU is supported by the MT Software Suite which includes MT Manager (GUI for Windows/Linux), SDK, example codes and drivers for many platforms.

- > White label options available
- > 3D models available on request

## Sensor fusion performance Calibrated Accelerometer Calibrated Gyroscope Strapdown Integration (SDI) Gyroscope ± 300 °/s Standard full range 7°/h In-run bias stability 400 Hz Bandwidth (-3dB) 0.003 °/s/√Hz Noise Density g-sensitivity (calibr.) 0.08°/s/g Accelerometer ±8g Standard full range 15 µg In-run bias stability 470 Hz Bandwidth (-3dB) 15 µg/√Hz Noise Density Magnetometer +8G Standard full range Total RMS noise 1 mG 0.2% Non-linearity 0.25 mG Resolution

Mechanical

Casing material

Operating Temperature

IP-rating

Mounting orientation ————	No restriction, full 360° in all axes
Dimensions —————	56.50 x 40.90 x 24.75 mm
Connector ————	Main: ODU (AMC HD 12 pins)
Weight ————	78.5 grams
Certifications —————	CE, FCC, RoHS, MIL-STD-202,
	ITAR free
Electrical	
Input voltage	4.5V-24V
Power consumption (typ)	<1W
Interfaces / IO	
Interfaces —————	RS232, RS422, CAN
Sync Options —————	SyncIn, SyncOut, ClockSync
Protocols ————	Xbus, ASCII (NMEA), CAN
Clock drift ————	10 ppm (or external)
Output Frequency ————	Up to 2kHz, 400Hz SDI
Built-in-self test	Gyr, Acc, Mag
Software Suite	
GUI (Windows/Linux)	MT Manager, Firmware updater,
	Magnetic Field Mapper
SDK (Example code)	C++, C#, Python, Matlab,
	Public source code
Drivers	LabVIEW, ROS, GO
Support	Online manuals, community
	and knowledge base

IP68

-40 to +85 °C

Aluminum