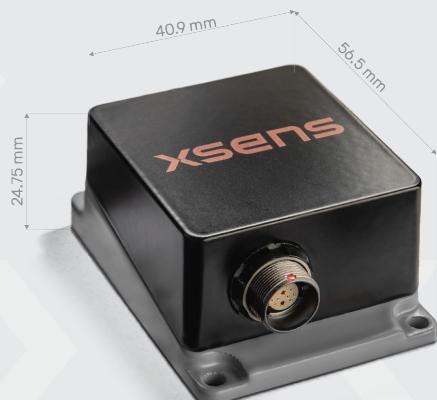


Xsens Sirius AHRS

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



Sensor fusion performance

Roll, Pitch	0.2 ° RMS
Yaw/Heading	<1 ° RMS
Strapdown Integration (SDI)	Yes

Gyroscope

Standard full range	±300 °/s
In-run bias stability	7 °/h
Bandwidth (-3dB)	400 Hz
Noise Density	0.003 °/s/VHz
g-sensitivity (calibr.)	0.08 °/s/g

Accelerometer

Standard full range	± 8 g
In-run bias stability	15 µg
Bandwidth (-3dB)	470 Hz
Noise Density	15 µg/√Hz

Magnetometer

Standard full range	± 8 G
Total RMS noise	1 mG
Non-linearity	0.2%
Resolution	0.25 mG

Mechanical

IP-rating	IP68
Operating Temperature	-40 to +85 °C
Casing material	Aluminum

Description

The Xsens Sirius AHRS features vibration- and shock-resistant signal pipeline and offers high-quality calibrated inertial and orientation data (roll, pitch, yaw), 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 AHRS 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

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 _____ 78.5g grams

Certifications _____ CE, FCC, RoHS, MIL-STD-202, ITAR free

Electrical

Input voltage _____ 4.5V-24V

Power consumption (typ) _____ 520 mW

Interfaces / IO

Interfaces _____ RS232, RS422, CAN

SyncIn, SyncOut, ClockSync

Xbus, ASCII (NMEA), CAN

10 ppm (or external)

Up to 2kHz, 400Hz SDI

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