

# Xsens Sirius AHRS

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



## Description

The Xsens Sirius AHRS features vibration- and shock-rejecting gyroscopes and offers high-quality inertial and orientational data, even in the harshest environments.

With Xsens technology inside, the all-in-one sensor system supports optimized temperature calibration, high-frequency outputs, 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

### 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/√Hz
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

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
Sync Options	SyncIn, SyncOut, ClockSync
Protocols	Xbus, ASCII (NMEA), CAN
Clock drift	10 ppm (or external)
Output Frequency	Up to 400Hz
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

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Movella:](#)

[Xsens Sirius AHRS Rugged-RS232/CAN](#)