

Xsens Sirius VRU

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





+ 300 °/s

Description

The Xsens Sirius VRU features vibration- and shock-rejecting gyroscopes and offers high-quality orientation 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 VRU is supported by the MT Software Suite which includes MT Manager (GUI for Windows/Linux), SDK, example codes and drivers for

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

Sensor fusion performance

0.2 ° RMS Roll, Pitch unreferenced low Yaw/Heading drift Strapdown Integration (SDI)

Gyroscope

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

Accelerometer

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

Magnetometer

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

Mechanical

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

Mounting orientation Dimensions Connector Weight Certifications

No restriction, full 360° in all axes 56.50 x 40.90 x 24.75 mm Main: ODU (AMC HD 12 pins) 78.5 grams CE, FCC, RoHS, MIL-STD-202, ITAR free

Electrical

4.5V-24V Input voltage <1\/ Power consumption (typ)

Interfaces / IO

Interfaces Sync Options Protocols Clock drift **Output Frequency** Built-in-self test

RS232, RS422, CAN SyncIn, SyncOut, ClockSync Xbus, ASCII (NMEA), CAN 10 ppm (or external) Up to 400Hz Gyr, Acc, Mag

Software Suite

GUI (Windows/Linux) SDK (Example code) Drivers Support

MT Manager, Firmware updater, Magnetic Field Mapper C++, C#, Python, Matlab, Public source code LabVIEW, ROS, GO Online manuals, community and knowledge base

Mouser Electronics

Authorized Distributor

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Xsens Sirius VRU Rugged-RS232/CAN