## MTi-300

Sensor fusion performance

- Xsens' high-performance product line
- 0.2 deg in roll/pitch, 1 deg in heading accuracy
- Complete SDK and development kits available

The MTi-300 features vibration-rejecting gyroscopes and offers high-quality inertial data, even in challenging environments.

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 MTi-300 is supported by the MT Software Suite which includes MT Manager (GUI for Windows/Linux), SDK, example codes and drivers for many platforms.



## Roll, Pitch 0.2 deg RMS Yaw/Heading 1 deg RMS Strapdown Integration (SDI) Yes **Gyroscope** Standard full range 450 deg/s In-run bias stability 10 deg/h Bandwidth (-3dB) 415 Hz 0.01 °/s/√Hz Noise Density g-sensitivity (calibr.) 0.003 °/s/g **Accelerometer** Standard full range 20 g In-run bias stability 15 μg Bandwidth (-3dB) 375 Hz Noise Density 60 μg/√Hz Magnetometer Standard full range +/- 8 G Total RMS noise 0.5 mG Non-linearity 0.2% Resolution 0.25 mG **GNSS Receiver** Brand n/a Model n/a RTCM input port n/a **Barometer** Standard full range 300-1100 hPa

IP-rating Operating Temperature Casing material Mounting orientation Dimensions	IP67 -40 to 85 °C Aluminum No restriction, full 360° in all axes 57x41.90x23.60 mm
Connector Weight	Fischer SV 55 g
Electrical	
Input voltage  Power consumption (typ)	3V3, 4.5V-34V 520 mW
Interfaces / IO	
Interfaces Sync Options Protocols Clock drift Output Frequency Built-in-self test	USB, RS232, RS422, UART SyncIn, SyncOut, ClockSync Xbus, ASCII (NMEA) 10 ppm (or external) up to 2kHz Yes
<b>Software Suite</b>	
GUI (Windows/Linux)  SDK (Example code)	MT Manager Firmware updater, Magnetic Field Mapper C++, C#, python, Matlab, Nucleo, public source code
Drivers Support	LabVIEW, ROS, GO BASE by XSENS: online manuals, community and knowledge base
White label and OEM integration options available	

• 3D models available on request

Mechanical

• Available online via Digi-Key, Mouser, Farnell and local distributors



Total RMS noise

Resolution



3.6 Pa

~0.08m