## MTi-300

- 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 is a high-performing Attitude Heading and Reference System (AHRS). It features vibration-rejecting gyroscopes and offers high-quality inertial data, even in challenging environments. The MTi-300 supports optimized temperature calibration, high-frequency outputs, and has configurable output settings for synchronization with any third-party device.

The MTi-300 is part of the MTi 100-series supported by the MT Software Suite, which includes MT Manager (GUI for Windows/Linux), SDK, example codes and drivers for many platforms.



- White label and OEM integration options available
- 3D models available on request
- Available at DigiKey, Mouser, Farnell, Arrow and local distributors

0.2 deg RMS
1 deg RMS
Yes
450 deg/s
10 deg/h
415 Hz
0.01 º/s/√Hz
0.003 °/s/g
20 g
15 μg
375 Hz
60 μg/√Hz
+/- 8 G
0.5 mG
0.2%
0.25 mG
n/a
n/a
n/a
300-1100 hPa
3.6 Pa
~0.08m

Mechanical	
IP-rating	IP67
Operating Temperature ———	-40 to 85 °C
Casing material	Aluminum
Mounting orientation ————	No restriction, full 360° in all axes
Dimensions —————	57x41.90x23.60 mm
Connector —————	Fischer SV
Weight —————	55 g
Certifications	CE, FCC, RoHS, MIL-STD-202
Electrical	
Input voltage	3V3, 4.5V-34V
Power consumption (typ)	520 mW

## Interfaces / IO Interfaces USB, RS232, RS422, UART Sync Options SyncIn, SyncOut, ClockSync Protocols Xbus, ASCII (NMEA) Clock drift 10 ppm (or external) Output Frequency Up to 2kHz Built-in-self test Gyr, Acc, Mag

Built-in-self test	Gyr, Acc, Mag
<b>Software Suite</b>	
GUI (Windows/Linux)	MT Manager Firmware updater,
	Magnetic Field Mapper
SDK (Example code)	C++, C#, Python, Matlab, Nucleo,
	public source code
Drivers —————	LabVIEW, ROS, GO
Support	BASE by XSENS: online manuals,
	community and knowledge base



