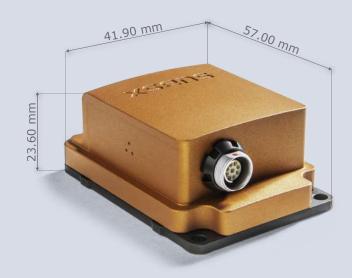
## MTi-100

- Xsens' high-performance product line
- Market leading SDI and synchronization options
- Complete SDK and development kits available

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



Sensor fusion performance	
Accelerometer	Calibrated
Gyroscope	Calibrated
Strapdown Integration (SDI) ————	Yes
Gyroscope	
Standard full range	450 deg/s
In-run bias stability	10 deg/h
Bandwidth (-3dB)	415 Hz
Noise Density	0.01 º/s/√Hz
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
Total RMS noise	3.6 Pa
Resolution	~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	
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	
Clock drift	10 ppm (or external)	
Output Frequency	up to 2kHz	
Built-in-self test	Yes	
<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	
White label and OEM integration options available		
3D models available on request		

- 3D models available on request
- Available online via Digi-Key, Mouser, Farnell and local distributors



