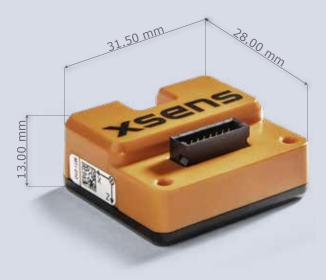
MTi-630

- Small, IP51-rated IMU
- 0.2 deg roll/pitch, 1 deg heading accuracy

• Full Graphical User Interface (GUI) and Software Development Kit (SDK) available

The MTi-630 is an Attitude Heading and Reference System (AHRS) with a small form factor design for deep integration in your application. As a part of the MTi 600-series, this module is lightweight, robust, cost-effective and easy to integrate. It is also highly flexible, with native CAN support.

The MTi-630 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 and OEM integration options available
- 3D models available on request

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

Sensor Fusion Performa	nce	Mechanical	
Roll, Pitch Yaw/Heading Strapdown Integration (SDI)	0,2 deg RMS 1 deg RMS Yes	IP-rating Operating Temperature Casing material	IP51 -40 to 85 °C PC-ABS
Gyroscope Standard full range In-run bias stability Bandwidth (-3dB) Noise Density	2000 deg/s 8 deg/h 520 Hz 0.007 °/s/√Hz	Mounting orientation Dimensions Connector Weight	No restriction, full 360° in all axes 28x31.50x13 mm Main: Phoenix Contact 16 pin, 1.27 mm pitch 8.9 g
g-sensitivity (calibr.) Accelerometer Standard full range	0.001 °/s/g	Electrical Input voltage Power consumption (typ)	4.5 to 24V<1 W
In-run bias stability Bandwidth (-3dB) Noise Density	10 g 10 (x,y) 15(z) µg 500Hz 60 µg/√Hz	Interfaces / IO Interfaces Sync Options	UART, CAN, RS232 SyncIn, SyncOut, ClockSync
Magnetometer Standard full range Total RMS noise Non-linearity	+/- 8 G 1 mG 0.2%	Protocols Clock drift Output Frequency Built-in-self test	Xbus, ASCII (NMEA) or CAN 10 ppm (or external) 2 kHz, 400 Hz SDI Yes
Resolution	0.25 mG	Software Suite GUI (Windows/Linux)	MT Manager Firmware updater,
GNSS Receiver Brand Model RTCM input port	n/a n/a n/a	SDK (Example code)	Magnetic Field Mapper C++, C#, python, Matlab, Nucleo, public source code
Barometer Standard full range Total RMS noise Relative accuracy	300-1250 hPa 1.2 Pa +/- 8 Pa (~0.5m)	Drivers Support	LabVIEW, ROS, GO BASE by XSENS: online manuals, community and knowledge base



Unless stated otherwise, all specifications are typical. Specifications subject to change without notice.