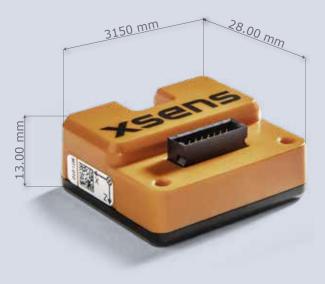
MTi-680

- Small, IP51-rated RTK GNSS/INS
- 0.2 deg roll/pitch & cm-level position accuracy
- Connects to external RTK GNSS receiver

The MTi-680 is a Global Navigation Satellite System/Inertial Navigation System (GNSS/INS) with an integrated Real-Time Kinematic GNSS receiver. The MTi-680's added RTK feature means you can improve your positional data from meter-level to centimeter-level accuracy. This easy-to-use GNS-S/INS module is designed for easy integration and seamless interfacing with other equipment.

The MTi-680 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 Performance		Mechanical	
Roll, Pitch Yaw/Heading Position Velocity Gyroscope Standard full range In-run bias stability Bandwidth (-3dB) Noise Density	0,2 deg RMS 0.5 deg RMS <1cm CEP 0.05m/s RMS 2000 deg/s 8 deg/h 520 Hz 0.007 °/s/v/Hz	IP-rating Operating Temperature Casing material Mounting orientation Dimensions Connector Weight Electrical	IP51 -40 to 85 °C PC-ABS 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	0.001 °/s/g	Input voltage Power consumption (typ)	4.5 to 24V<1 W
Standard full range In-run bias stability Bandwidth (-3dB) Noise Density Magnetometer Standard full range Total RMS noise	un bias stability 10 (x,y) 15(z) μg dwidth (-3dB) 500 Hz se Density 60 μg/√Hz gnetometer	Interfaces / IO Interfaces Sync Options Protocols Clock drift Output Frequency Built-in-self test	UART, CAN, RS232 SyncIn, SyncOut, ClockSync Xbus, ASCII (NMEA) or CAN 1ppm (external) 2 kHz, 400 Hz SDI Yes
Non-linearity	0.2%	Software Suite	
Resolution GNSS Receiver Brand Model RTCM input port	0.25 mG External External External	GUI (Windows/Linux) SDK (Example code) Drivers	MT Manager Firmware updater, Magnetic Field Mapper C++, C#, python, Matlab, Nucleo, public source code LabVIEW, ROS, GO
Barometer Standard full range	300-1250 hPa 1.2 Pa	Support	BASE by XSENS: online manuals, community and knowledge base





Relative accuracy

+/- 8 Pa (~0.5m)

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