MTi-670G

- Rugged, IP68-rated GNSS/INS
- 0.2 deg roll/pitch & meter level
- position accuracy

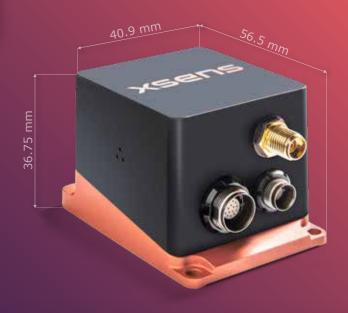
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• Internal u-blox ZED F9 GNSS receiver

The MTi-670G is a GNSS/INS with a ruggedized housing featuring IP68 protection against environmental influences. Building on the proven Xsens MTi 600-series technology it enables a robust and easy to use meter-level positioning and orientation tracking for outdoor applications. It features an incredibly powerful onboard u-blox ZED F9 GNSS receiver to provide superior positioning performance. It is designed for easy integration and seamless interfacing with other equipment.

The MTi-670G is supported by the MT Software Suite which includes MT Manager (GUI for Windows/Linux), SDK, example codes and drivers for many platforr



- White label and OEM integration options available
- 3D models available on request

This document is informational and not binding. Complete and detailed specifications are available at movalla

many platforms including ROS.		mtidocs.movella.com	
Sensor Fusion Performance		Mechanical	
Roll, Pitch Yaw/Heading Position Velocity	0.8 deg RMS 1m CEP ¹	-	-40 to 85 °C Aluminum No restriction, full 360° in all axes
Gyroscope Standard full range In-run bias stability Bandwidth (-3dB) Noise Density q-sensitivity (calibr.)	8 deg/h 520 Hz 0.007 °/s/√Hz	Dimensions Connector Weight Certifications	 Main: ODU (AMC HD 12 pins) RTCM: DNC Antenna: SMA 98 g
Accelerometer Standard full range In-run bias stability Bandwidth (-3dB)	10 (x,y) 15(z) μg 500 Hz	Electrical Input voltage Power consumption (typ) – Interfaces / IO	<1 W
Noise Density Magnetometer Standard full range Total RMS noise Non-linearity Resolution	+/- 8 G 1 mG 0.2%	Protocols Clock drift Output Frequency	SyncIn, SyncOut, ClockSync Xbus, ASCII (NMEA) or CAN 1 ppm
GNSS Receiver Brand Model RTCM input port	ZED F9	Software Suite GUI (Windows/Linux) SDK (Example code)	Magnetic Field Mapper — C++, C#, Python, Matlab, Nucleo,
Barometer Standard full range Total RMS noise Relative accuracy	1.2 Pa	Drivers Support	public source code LabVIEW, ROS, GO Online manuals, community and knowledge base ¹ Depending on GNSS conditions

