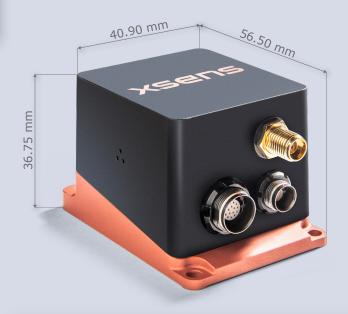
MTi-670G

- Rugged, IP68-rated GNSS/INS
- 0.2 deg roll/pitch & meter level
- position accuracy
- 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 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 seamless integration and 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 platforms including ROS.

Sensor Fusion PerformanceMeaRoll, Pitch0.2 deg RMSIP-raYaw/Heading0.8 deg RMSOperPosition1m CEP1CasirVelocity0.05m/s RMSMourGyroscopeDimeStandard full range2000 deg/sConnIn-run bias stability8 deg/hBandwidth (-3dB)Bandwidth (-3dB)520 HzWeigg-sensitivity (calibr.)0.1 °/s/gCertiAccelerometerElectStandard full range10 gInputIn-run bias stability10 (x,y) 15(z) µgPoweBandwidth (-3dB)500 HzInterStandard full range10 gInputIn-run bias stability10 (x,y) 15(z) µgPoweBandwidth (-3dB)500 HzInterStandard full range1/- 8 GClockIn-run bias stability0.2%OutpBandwidth (-3dB)500 HzInterStandard full range1/- 8 GClockOutp0.25 mGBuiltGINSS ReceiverSoffBrandu-bloxGUIModelZED F9RTCM input portn/aBarometerSDKStandard full range300-1250 hPaStandard full range1.2 PaRelative accuracy+/- 8 Pa (~0.5m)			
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	•	300-1250 hPa	Supp
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	Relative accuracy	+/- 8 Pa (~0.5m)	



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

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

Complete and detailed specifications are available at **mtidocs.xsens.com**

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Mechanical	
IP-rating	IP68
Operating Temperature	-40 to 85 °C
Casing material	Aluminum
Mounting orientation	No restriction, full 360° in all axes
Dimensions	56.5x40.9x36.75 mm
Connector	Main: ODU (AMC HD 12 pins)
	RTCM: DNC
	Antenna: SMA
Weight	98 g
Certifications	CE, FCC, RoHS
Electrical	
Input voltage	4.5 to 24V
Power consumption (typ)	<1 W
Interfaces / IO	
Interfaces	CAN, RS232
Sync Options	SyncIn, SyncOut, ClockSync
Protocols	Xbus, ASCII (NMEA) or CAN
Clock drift	1 ppm
Output Frequency	Up to 2kHz, 400 Hz SDI
Built-in-self test	Gyr, Acc, Mag, Baro, GNSS
Software Suite	
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
	1 Depending on GNSS conditions



