- Miniature form factor (12x12 mm)
- Easy integration
- Development Kit available

The MTi-1 is a self-contained Inertial Measurement Unit (IMU) as a 12.1 x 12.1 mm module. The Xsens optimized strapdown algorithm (AttitudeEngine<sup>™</sup>) performs high-speed dead-reckoning calculations at 1 kHz allowing accurate capture of high frequency motions. The MTi-1 IMU is a cost-effective module for a wide range of (embedded) applications. It relieves users from the design, integration and maintenance of gyroscopes, accelerometers and other sensors.

The MTi-1 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.



Mechanical

**IP-rating** 

3D models available on request

This document is informational and not binding. Complete and detailed specifications are available at mtidocs.movella.com

### **IMU Performance**

Total RMS noise

Non-linearity

Resolution

Accelerometer	Calibrated
Gyroscope	Calibrated
Strapdown Integration (SDI)	Yes
Gyroscope	
Standard full range	2000 deg/s
In-run bias stability	6 deg/h
Bandwidth (-3dB)	230 Hz
Noise Density	0.003 ⁰/s/√Hz
Accelerometer	
Standard full range	16 g
In-run bias stability	40 µg
Bandwidth (-3dB)	230 Hz
Noise Density	70 µg/√Hz
Magnetometer	
Standard full range	+/- 8 G

Operating Temperature Casing material Mounting orientation Dimensions Connector Weight Certifications	-40 to 85 °C PCB No restriction, full 360° in all axes 12.1 x 12.1 x 2.55 mm SMD, footprint compatible with JEDEC PLCC-28 0.6 g CE, FCC, RoHS
Electrical	
Input voltage Power consumption (typ)	2.8 to 3.6V <100 mW @ 3V
Interfaces / IO	
Interfaces Sync Options Protocols Clock drift Output Frequency Built-in-self test	UART, SPI, I <sup>2</sup> C Yes Xbus 10 ppm Up to 1 kHz Gyr, Acc, Mag
Software Suite	
GUI (Windows/Linux)	MT Manager, Firmware updater, Magnetic Field Mapper
SDK (Example code)	C++, C#, Python, Matlab, Nucleo, public source code
Drivers Support	LabVIEW, ROS, GO Online manuals, community and knowledge base

IP00





0.5 mG

0.25 mG

0.2%

- Miniature form factor (12x12 mm)
- Easy integration
- Development Kit available

The MTi-2 is a self-contained Vertical Reference Unit (VRU) and Active Heading Tracker (AHT) as a 12.1 x 12.1 mm module. The Xsens optimized strapdown algorithm (AttitudeEngine<sup>TM</sup>) performs high-speed dead-reckoning calculations at 1 kHz allowing accurate capture of high frequency motions. Xsens' industry-leading sensor fusion algorithm provides high accuracy and sensor auto-calibration in a cost-effective module for a wide range of (embedded) applications. It relieves users from the design, integration and maintenance of gyroscopes, accelerometers and other sensors.

The MTi-2 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.

2.55 mm

• 3D models available on request

This document is informational and not binding. Complete and detailed specifications are available at **mtidocs.movella.com** 

### Sensor fusion performance

Roll, Pitch	0.5 deg RMS
Yaw/Heading	 unreferenced, low drift
Strapdown Integration (SDI)	 Yes
Gyroscope	
Standard full range	 2000 deg/s
In-run bias stability	 6 deg/h
Bandwidth (-3dB)	230 Hz
Noise Density	 0.003 º/s/√Hz
Accelerometer	
Standard full range	 16 g
In-run bias stability	40 µg
Bandwidth (-3dB)	 230 Hz
Noise Density	70 µg/√Hz
Magnetometer	
Standard full range	 +/- 8 G
Total RMS noise	 0.5 mG
Non-linearity	 0.2%
Resolution	 0.25 mG

Mechanical	
IP-rating	IPOO
Operating Temperature	-40 to 85 °C
Casing material	PCB
Mounting orientation	No restriction, full 360° in all axes
Dimensions	12.1 x 12.1 x 2.55 mm
Connector	SMD, footprint compatible with
	JEDEC PLCC-28
Weight	0.6 g
Certifications	CE, FCC, RoHS
Electrical	
Input voltage	2.8 to 3.6V
Power consumption (typ)	<100 mW @ 3V
Interfaces / IO	
Interfaces	UART, SPI, I <sup>2</sup> C
Sync Options	Yes
Protocols	Xbus
Clock drift	10 ppm
Output Frequency	Up to 1 kHz
Built-in-self test	Gyr, Acc, Mag
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	Online manuals, community and
	knowledge base





- Miniature form factor (12x12 mm)
- Easy integration
- Development Kit available

The MTi-3 is a self-contained Attitude and Heading Reference System (AHRS) as a 12.1 x 12.1 mm module. The Xsens optimized strapdown algorithm (AttitudeEngine<sup>TM</sup>) performs high-speed dead-reckoning calculations at 1 kHz allowing accurate capture of high frequency motions. Xsens' industry-leading sensor fusion algorithm provides high accuracy and sensor auto-calibration in a cost-effective module for a wide range of (embedded) applications. It relieves users from the design, integration and maintenance of gyroscopes, accelerometers and other sensors.

The MTi-3 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.



### • 3D models available on request

This document is informational and not binding. Complete and detailed specifications are available at **mtidocs.movella.com** 

Roll, Pitch	0.5 deg RMS
Yaw/Heading	2 deg RMS
Strapdown Integration (SDI)	Yes
Gyroscope	
Standard full range	2000 deg/s
In-run bias stability	6 deg/h
Bandwidth (-3dB)	230 Hz
Noise Density	0.003 ⁰/s/√Hz
Accelerometer	
Standard full range	16 g
In-run bias stability	40 µg
Bandwidth (-3dB)	230 Hz
Noise Density	70 µg/√Hz
Magnetometer	
Standard full range	+/- 8 G
Total RMS noise	0.5 mG
Non-linearity	0.2%
Resolution	0.25 mG

Mechanical	
IP-rating	IPOO
Operating Temperature	-40 to 85 °C
Casing material	PCB
Mounting orientation	No restriction, full 360° in all axes
Dimensions	12.1 x 12.1 x 2.55 mm
Connector	SMD, footprint compatible with JEDEC PLCC-28
Weight	0.6 g
Certifications	CE, FCC, RoHS
Electrical	
Input voltage	2.8 to 3.6V
Power consumption (typ) ——	<100 mW @ 3V
Interfaces / IO	
Interfaces	UART, SPI, I <sup>2</sup> C
Sync Options	Yes
Protocols	Xbus
Clock drift	10 ppm
Output Frequency	Up to 1 kHz
Built-in-self test	Gyr, Acc, Mag
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	Online manuals, community and
	knowledge base





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

- Miniature form factor (12x12 mm)
- Easy integration
- Development Kit available

The MTi-7 is a miniature GNSS/INS as a 12.1 x 12.1 mm module with an interface to an external GNSS receiver. The Xsens optimized strapdown algorithm (AttitudeEngine<sup>TM</sup>) performs high-speed dead-reckoning calculations at 1 kHz allowing accurate capture of high frequency motions. Xsens' industry-leading sensor fusion algorithm provides high accuracy and sensor auto-calibration in a cost-effective module for a wide range of (embedded) outdoor applications. It relieves users from the design, integration and maintenance of gyroscopes, accelerometers and other sensors.

The MTi-7 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 performance	
Roll, Pitch Yaw/Heading Position Velocity	0.5 deg RMS 1.5 deg RMS 1 m CEP <sup>1</sup> 0.05 m/s RMS
Gyroscope	
Standard full range In-run bias stability Bandwidth (-3dB) Noise Density	2000 deg/s 6 deg/h 230 Hz 0.003 º/s/√Hz
Accelerometer	
Standard full range In-run bias stability Bandwidth (-3dB) Noise Density	16 g 40 μg 230 Hz 70 μg/√Hz
Magnetometer	
Standard full range Total RMS noise Non-linearity Resolution	+/- 8 G 0.5 mG 0.2% 0.25 mG
GNSS Receiver	
GNSS receiver interface	UART (NMEA, UBX, beta:SBF/ GSOF) Standard
Barometer	
Barometer interface	Yes (SPI)



• 3D models available on request

This document is informational and not binding. Complete and detailed specifications are available at **mtidocs.movella.com** 

Mechanical	
IP-rating Operating Temperature Casing material Mounting orientation Dimensions Connector Weight Certifications	IP00 -40 to 85 °C PCB No restriction, full 360° in all axes 12.1 x 12.1 x 2.55 mm SMD, footprint compatible with JEDEC PLCC-28 0.6 g CE, FCC.RoHS
Electrical	
Input voltage Power consumption (typ)	2.8 to 3.6V <150 mW @ 3V
Interfaces / IO	
Interfaces Sync Options Protocols Clock drift Output Frequency Built-in-self test	UART, SPI, I <sup>2</sup> C Yes Xbus, NMEAin 1 ppm (external) Up to 1 kHz Gyr, Acc, Mag, Baro, GNSS
Software Suite	
GUI (Windows/Linux) SDK (Example code)	MT Manager Firmware updater, Magnetic Field Mapper C++, C#, Python, Matlab, Nucleo,
Drivers Support	public source code LabVIEW, ROS, GO Online manuals, community and knowledge base

<sup>1</sup> GNSS receiver from DK is used, depending on GNSS conditions.





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

- Movella's high-performance product line
- Market leading strapdown integration (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.

With Xsens technology inside, 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.



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

Sensor fusion performance		Mechanical	
Accelerometer Gyroscope Strapdown Integration (SDI) <b>Gyroscope</b> Standard full range In-run bias stability Bandwidth (-3dB)	Calibrated Calibrated Yes 450 deg/s 10 deg/h 415 Hz	IP-rating Operating Temperature Casing material Mounting orientation Dimensions Connector Weight	IP67 -40 to 85 °C Aluminum No restriction, full 360° in all axes 57x41.90x23.60 mm Fischer SV 55 g
Noise Density	0.01 º/s/√Hz		CE, FCC, ROHS, MIL-STD-202
Accelerometer Standard full range	20 g	Electrical       Input voltage       Power consumption (typ)	3V3, 4.5V-34V 520 mW
In-run bias stability Bandwidth (-3dB) Noise Density	15 µg 375 Hz 60 µg/√Hz	Interfaces / IO Interfaces Sync Options	USB, RS232, RS422, UART SyncIn, SyncOut, ClockSync
Magnetometer       Standard full range       Total RMS noise       Non-linearity	+/- 8 G 0.5 mG 0.2%	Protocols Clock drift Output Frequency Built-in-self test	Xbus, ASCII (NMEA) 10 ppm (or external) Up to 2kHz Gyr, Acc, Mag
Resolution	0.25 mG	Software Suite	
Barometer Standard full range	300-1100 hPa	GUI (Windows/Linux)	MT Manager, Firmware updater, Magnetic Field Mapper
Total RMS noise Resolution This document is informational a Complete and detailed specificat mtidocs movella com	3.6 Pa ~0.08m nd not binding. ions are available at	SDK (Example code) Drivers Support	C++, C#, Python, Matlab, Nucleo, public source code LabVIEW, ROS, GO Online manuals, community and knowledge base





- Movella's high-performance product line
- 0.2 deg in roll/pitch accuracy, ultra low heading drift
- Complete SDK and development kits available

The MTi-200 features vibration-rejecting gyroscopes and offers high-quality inertial data, even in challenging environments.

With Xsens technology inside, 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-200 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

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
Certifications	CE, FCC, RoHS, MIL-STD-202
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, ASCII (NMEA)
Clock drift	10 ppm (or external)
Output Frequency	Up to 2kHz
Built-in-self test	Gyr, Acc, Mag
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	Online manuals, community and
	knowledge base





- Movella's high-performance product line
- 0.2 deg in roll/pitch, 1 deg in heading accuracy
- Complete SDK and development kits available

The MTi-300 features vibration-rejecting gyroscopes and offers high-quality inertial data, even in challenging environments.

With Xsens technology inside, 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-300 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

Sensor fusion performance		Mechanical	
Roll, Pitch	0.2 deg RMS	IP-rating	IP67
Yaw/Heading	1 deg RMS	Operating Temperature	-40 to 85 °C
Strapdown Integration (SDI)	Yes	Casing material	Aluminum
Gyroscope		Mounting orientation	No restriction, full 360° in all axes
Standard full range	450 deg/s	Dimensions	57x41.90x23.60 mm
In-run bias stability	10 deg/h	Connector	Fischer SV
Bandwidth (-3dB)	415 Hz	Weight	55 g
Noise Density	0.01 º/s/√Hz	Certifications	CE, FCC, RoHS, MIL-STD-202
g-sensitivity (calibr.)	0.003 °/s/g	Electrical	
Accelerometer		Input voltage	3V3, 4.5V-34V
Standard full range	20 g	Power consumption (typ)	520 mW
In-run bias stability	15 µg	Interfaces / IO	
Bandwidth (-3dB)	375 Hz	Interfaces	USB, RS232, RS422, UART
Noise Density	60 µg/√Hz	Sync Options	SyncIn, SyncOut, ClockSync
Magnetometer		Protocols	Xbus, ASCII (NMEA)
Standard full range	+/- 8 G	Clock drift	10 ppm (or external)
Total RMS noise	0.5 mG	Output Frequency	Up to 2kHz
Non-linearity	0.2%	Built-in-self test	Gyr, Acc, Mag
Resolution	0.25 mG	Software Suite	
Barometer		GUI (Windows/Linux)	MT Manager, Firmware updater,
Standard full range	300-1100 hPa		Magnetic Field Mapper
Total RMS noise	3.6 Pa	SDK (Example code)	C++, C#, Python, Matlab, Nucleo,
Resolution	~0.08m		public source code
		Drivers	LabVIEW, ROS, GO
This document is informational	and not binding	Support	Online manuals, community and

This document is informational and not binding. Complete and detailed specifications are available at **mtidocs.movella.com** 





- Small, IP51-rated IMU
- Factory-calibrated inertial data
- Full Graphical User Interface (GUI) and Software Development Kit (SDK) available

The MTi-610 is a Inertial Measurement Unit with a small form-factor design for deep integration into your application. Building on the proven Xsens MTi 600-series technology it enables a robust and easy to use motion tracking. It is designed for easy integration and seamless interfacing with other equipment.

The MTi-610 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.



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

IMU performance		Mechanical	
Accelerometer Gyroscope Strapdown Integration (SDI)	Calibrated Calibrated 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         g-sensitivity (calibr.)	2000 deg/s 8 deg/h 520 Hz 0.007 º/s/√Hz 0.1 º/s/g	Mounting orientation Dimensions Connector Weight Certifications	No restriction, full 360° in all axes 28x31.5x13 mm Main: Phoenix Contact 16 pin, 1.27 mm pitch 8.9 g CE, FCC, RoHS
Accelerometer Standard full range In-run bias stability	10 g 10 (x,y) 15(z) μg	Electrical Input voltage Power consumption (typ)	4.5 to 24V <0.5 W
Bandwidth (-3dB) Noise Density	500 Hz 60 µg/√Hz	Interfaces / IO	UART, CAN, RS232
Magnetometer         Standard full range         Total RMS noise         Non-linearity         Resolution	+/- 8 G 1 mG 0.2% 0.25 mG	Sync Options Protocols Clock drift Output Frequency Built-in-self test	SyncIn, SyncOut, ClockSync Xbus, ASCII (NMEA) or CAN 10 ppm (or external) Up to 2kHz, 400Hz SDI Gyr, Acc, Mag, Baro
Barometer		Software Suite	
Standard full range Total RMS noise Relative accuracy	300-1250 hPa 1.2 Pa +/- 8 Pa (~0.5m)	GUI (Windows/Linux)	MT Manager, Firmware updater, Magnetic Field Mapper C++, C#, Python, Matlab, Nucleo, public source code
This document is informational and not binding. Complete and detailed specifications are available at		Drivers Support	LabVIEW, ROS, GO Online manuals, community and



mtidocs.movella.com



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

- Small, IP51-rated VRU/AHT
- 0.2 deg roll/pitch accuracy

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

The MTi-620 is a Vertical Reference Unit (VRU) or Active Heading Tracker (AHT) with a small form-factor design for deep integration into your application. Building on the proven Xsens MTi 600-series technology it enables a robust and easy to use orientation tracking. It is designed for easy integration and seamless interfacing with other equipment.

The MTi-620 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.



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

Sensor Fusion Performance			Mechanical	
	Roll, Pitch	0.2 deg RMS	IP-rating	IP51
	Yaw/Heading	unreferenced, low drift	Operating Temperature	-40 to 85 °C
	Strapdown Integration (SDI)	Yes	Casing material	PC-ABS
	Gyroscope		Mounting orientation	No restriction, full 360° in all axes
	Standard full range	2000 deg/s	Dimensions	28x31.5x13 mm
	In-run bias stability	8 deg/h	Connector	Main: Phoenix Contact 16 pin, 1.27 mm
	Bandwidth (-3dB)	520 Hz		pitch
	Noise Density	0.007 º/s/√Hz	Weight	8.9 g
	g-sensitivity (calibr.)	0.1 º/s/g	Certifications	CE, FCC, RoHS
	Accelerometer		Electrical	
	Standard full range	10 g	Input voltage	4.5 to 24V
	In-run bias stability	10 (x,y) 15(z) μg	Power consumption (typ)	<0.5 W
	Bandwidth (-3dB)	500 Hz	Interfaces / IO	
	Noise Density	60 µg/√Hz	Interfaces	UART, CAN, RS232
	Magnetometer		Sync Options	SyncIn, SyncOut, ClockSync
	Standard full range	+/- 8 G	Protocols	Xbus, ASCII (NMEA) or CAN
	Total RMS noise	1 mG	Clock drift	10 ppm (or external)
	Non-linearity	0.2%	Output Frequency	Up to 2 kHz, 400 Hz SDI
	Resolution	0.25 mG	Built-in-self test	Gyr, Acc, Mag, Baro
	Barometer		Software Suite	
	Standard full range	300-1250 hPa	GUI (Windows/Linux)	MT Manager, Firmware updater,
	Total RMS noise	1.2 Pa		Magnetic Field Mapper
	Relative accuracy	+/- 8 Pa (~0.5m)	SDK (Example code)	C++, C#, Python, Matlab, Nucleo,
				public source code
	This document is informational a	and not binding.	Drivers	LabVIEW, ROS, GO
	Complete and detailed specificat	tions are available at	Support	Online manuals, community and
	complete and detailed specifications are available at			



mtidocs.movella.com



- Small, IP51-rated AHRS
- 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 and Heading Reference System with a small form-factor design for deep integration into your application. Building on the proven Xsens MTi 600-series technology it enables a robust and easy to use orientation tracking. It is designed for easy integration and seamless interfacing with other equipment.

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 including ROS.



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

Sensor Fusion Performance		Mechanical	
Roll, Pitch         Yaw/Heading         Strapdown Integration (SDI)         Gyroscope         Standard full range         In-run bias stability         Bandwidth (-3dB)         Noise Density	0.2 deg RMS 1 deg RMS Yes 2000 deg/s 8 deg/h 520 Hz 0.007 °/s/√Hz	IP-rating Operating Temperature Casing material Mounting orientation Dimensions Connector Weight	IP51 -40 to 85 °C PC-ABS No restriction, full 360° in all axes 28x31.5x13 mm Main: Phoenix Contact 16 pin, 1.27 mm pitch 8.9 g
g-sensitivity (calibr.)	0.1 °/s/g	Certifications	CE, FCC, ROHS
Accelerometer         Standard full range         In-run bias stability         Bandwidth (-3dB)         Noise Density	10 g 10 (x,y) 15(z) µg 500 Hz 60 µg/√Hz	Input voltage Power consumption (typ) Interfaces / IO	4.5 to 24V <0.5 W
Magnetometer		Sync Options	SyncIn, SyncOut, ClockSync
Standard full range Total RMS noise Non-linearity Resolution	+/- 8 G 1 mG 0.2% 0.25 mG	Protocols Clock drift Output Frequency Built-in-self test	Xbus, ASCII (NMEA) or CAN 10 ppm (or external) Up to 2 kHz, 400 Hz SDI Gyr, Acc, Mag, Baro
Barometer		Software Suite	
Standard full range Total RMS noise Relative accuracy	300-1250 hPa 1.2 Pa +/- 8 Pa (~0.5m)	GUI (Windows/Linux) SDK (Example code)	MT Manager, Firmware updater, Magnetic Field Mapper C++, C#, Python, Matlab, Nucleo, public source code
This document is informational and not binding.		Drivers	LabVIEW, ROS, GO Online manuals, community and

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





# MTi-630R

- Rugged, IP68-rated AHRS
- 0.2 deg roll/pitch, 1 deg heading accuracy
- Full Graphical User Interface (GUI) and Software Development Kit (SDK) available

The MTi-630R is an Attitude and Heading Reference System with a small form-factor design for deep integration into your application. Building on the proven Xsens MTi 600-series technology it enables a robust and easy to use orientation tracking. It is designed for easy integration and seamless interfacing with other equipment.

The MTi-630R 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.



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

Sensor Fusion Performance		Mechanical	
Roll, Pitch Yaw/Heading Strapdown Integration (SDI)	0.2 deg RMS 1 deg RMS Yes	IP-rating Operating Temperature Casing material	IP68 -40 to 85 °C Aluminum
Gyroscope         Standard full range         In-run bias stability         Bandwidth (-3dB)         Noise Density	2000 deg/s 8 deg/h 520 Hz 0.007 º/s/√Hz	Mounting orientation Dimensions Connector Weight Certifications	No restriction, full 360° in all axes 56.5x40.9x24.75 mm Main: ODU (AMC HD 12 pins) 75 g CE, FCC, RoHS
g-sensitivity (calibr.) Accelerometer	0.1 °/s/g	Electrical Input voltage	4.5 to 24V
Standard full range In-run bias stability	10 g 10 (x,y) 15(z) μg	Power consumption (typ)	<0.5 W
Noise Density	500 H2 60 μg/√Hz	Interfaces Sync Options	CAN, RS232 SyncIn, SyncOut, ClockSync
Magnetometer       Standard full range       Total RMS noise       Non-linearity	+/- 8 G 1 mG 0.2%	Clock drift Output Frequency Built-in-self test	10 ppm (or external) Up to 2 kHz, 400 Hz SDI Gyr, Acc, Mag, Baro
Resolution	0.25 mG	Software Suite	
Barometer Standard full range	300-1250 hPa	GUI (Windows/Linux)	MT Manager, Firmware updater, Magnetic Field Mapper
Total RMS noise Relative accuracy	1.2 Pa +/- 8 Pa (~0.5m)	SDK (Example code)	C++, C#, Python, Matlab, Nucleo, public source code
This document is informational and not binding.		Support	Online manuals, community and

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





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

The MTi-670 is a GNSS/INS with a small form-factor design for deep integration into your outdoor application. Building on the proven Xsens MTi 600-series technology it enables a robust and easy to use meter level positioning and orientation tracking. It features an interface to an external GNSS receiver so you can efficiently design your application. It is designed for easy integration and seamless interfacing with other equipment.

The MTi-670 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.



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

Sensor Fusion Performance		Mechanical	
Roll, Pitch	0.2 deg RMS	IP-rating	IP51
Yaw/Heading	0.8 deg RMS	Operating Temperature	-40 to 85 °C
Position	1m CEP <sup>1</sup>	Casing material	PC-ABS
Velocity	0.05m/s RMS	Mounting orientation	No restriction, full 360° in all axes
Gyroscope		Dimensions	28x31.5x13 mm
Standard full range	2000 deg/s	Connector	Main: Phoenix Contact 16 pin, 1.27 mm
In-run bias stability	8 deg/h		pitch
Bandwidth (-3dB)	520 Hz	Weight	8.9 g
Noise Density	0.007 º/s/√Hz	Certifications	CE, FCC, RoHS
g-sensitivity (calibr.)	0.1 º/s/g	Electrical	
Accelerometer		Input voltage	4.5 to 24V
Standard full range	10 g	Power consumption (typ)	<0.5 W
In-run bias stability	10 (x,y) 15(z) μg	Interfaces / IO	
Bandwidth (-3dB)	500 Hz	Interfaces	LIADT CAN DE222
Noise Density	60 µg/√Hz	Sync Options	Syncin SyncOut ClockSync
Magnetometer		Protocols	Xhus ASCII (NMEA) or CAN
Standard full range	±/- 8 G		1 ppm (external)
Total RMS noise	1 mG		Up to 2 $$ kHz, 400 Hz SDI
Non-linearity	0.2%	Built-in-self test	Gyr. Acc. Mag. Baro, GNSS
Resolution	0.25 mG	Software Suite	-,-,
GNSS Pacaivar			MT Managor Firmwaro undator
Brand	Conoria NMEA or while hoto CRE/CCOE		Magnetic Field Manner
Madal	Generic NMEA or u-blox, beta:SBF/GSOF	SDK (Example code)	C++ C# Python Matlah Nucleo
Model BTK correction input/BTCM input port	External		nublic source code
	External	Drivers	LabVIEW ROS GO
Barometer		Support	Online manuals, community and
Standard full range	300-1250 hPa	Capport	knowledge base
Total RMS noise	1.2 Pa		knowledge buse
Relative accuracy	+/- 8 Pa (~0.5m)	<sup>1</sup> ZED F9 GNSS	5 receiver is used, depending on GNSS conditions.



# 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 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 platforms including ROS.



- 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 **mtidocs.movella.com** 

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 0.8 deg RMS 1m CEP <sup>1</sup> 0.05m/s RMS 2000 deg/s 8 deg/h 520 Hz 0.007 °/s/√Hz	IP-rating Operating Temperature Casing material Mounting orientation Dimensions Connector Weight	<ul> <li>IP68</li> <li>-40 to 85 °C</li> <li>Aluminum</li> <li>No restriction, full 360° in all axes</li> <li>56.5x40.9x36.75 mm</li> <li>Main: ODU (AMC HD 12 pins)</li> <li>RTCM: DNC</li> <li>Antenna: SMA</li> <li>98 g</li> </ul>
g-sensitivity (calibr.)	0.1 °/s/g	Certifications	CE, FCC, RoHS
Accelerometer Standard full range In-run bias stability	10 g 10 (x,y) 15(z) µg	Electrical Input voltage Power consumption (typ)	- 4.5 to 24V - <1 W
Bandwidth (-3dB) Noise Density	500 Hz 60 µg/√Hz	Interfaces / IO Interfaces	- CAN, RS232
Magnetometer         Standard full range         Total RMS noise         Non-linearity         Resolution	+/- 8 G 1 mG 0.2% 0.25 mG	Sync Options Protocols Clock drift Output Frequency Built-in-self test	<ul> <li>SyncIn, SyncOut, ClockSync</li> <li>Xbus, ASCII (NMEA) or CAN</li> <li>1 ppm</li> <li>Up to 2kHz, 400 Hz SDI</li> <li>Gyr, Acc, Mag, Baro, GNSS</li> </ul>
GNSS Receiver		Software Suite	
Brand Model RTCM input port	u-blox ZED F9 n/a	GUI (Windows/Linux) SDK (Example code)	<ul> <li>MT Manager, Firmware updater,</li> <li>Magnetic Field Mapper</li> <li>C++, C#, Python, Matlab, Nucleo,</li> </ul>
Barometer Standard full range Total RMS noise Relative accuracy	300-1250 hPa 1.2 Pa +/- 8 Pa (~0.5m)	DriversSupport	<ul> <li>LabVIEW, ROS, GO</li> <li>Online manuals, community and knowledge base</li> </ul>



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

- 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 an RTK GNSS/INS with a small form-factor design for deep integration into your application. Building on the proven Xsens MTi 600-series technology it enables a robust and easy to use cm-level positioning and orientation tracking for outdoor applications. It features an interface to an external RTK GNSS receiver so you can efficiently design your application. It 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 including ROS.



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

Sensor Fusion Performance		Mechanical	
Roll, Pitch	0.2 deg RMS	IP-rating	IP51
Yaw/Heading	0.5 deg RMS	Operating Temperature	-40 to 85 °C
Position	1cm+1ppm CEP <sup>1</sup>	Casing material	PC-ABS
Velocity	0.05m/s RMS	Mounting orientation	No restriction, full 360° in all axes
Gyroscope		Dimensions	28x31.5x13 mm
Standard full range	2000 deg/s	Connector	Main: Phoenix Contact 16 pin, 1.27 mm
In-run bias stability	8 deg/h		pitch
Bandwidth (-3dB)	520 Hz	Weight	8.9 g
Noise Density	0.007 º/s/√Hz	Certifications	CE, FCC, RoHS
g-sensitivity (calibr.)	0.1 º/s/g	Electrical	
Accelerometer		Input voltage	4.5 to 24V
Standard full range	10 g	Power consumption (typ)	<0.5 W
In-run bias stability	10 (x,y) 15(z) μg	Interfaces / IO	
Bandwidth (-3dB)	500 Hz	Interfaces	LIART CAN RS232
Noise Density	60 µg/√Hz	Sync Ontions	SyncIn SyncOut ClockSync
Magnetometer		Protocols	Xbus, ASCII (NMEA) or CAN
Standard full range	+/- 8 G	Clock drift	1ppm (external)
Total RMS noise	1 mG	Output Frequency	Up to 2 kHz, 400 Hz SDI
Non-linearity	0.2%	Built-in-self test	Gyr, Acc, Mag, Baro, GNSS
Resolution	0.25 mG	Software Suite	
GNSS Receiver		GUI (Windows/Linux)	MT Manager, Firmware updater,
Brand	Generic NMEA or u-blox, beta:SBF/GSOF		Magnetic Field Mapper
Model	External	SDK (Example code)	C++, C#, Python, Matlab, Nucleo,
RTK correction input/RTCM input port $-$	External		public source code
Barometer		Drivers	LabVIEW, ROS, GO
Standard full range	300-1250 bPa	Support	Online manuals, community and
	1 2 Pa		knowledge base
Relative accuracy	+/- 8 Pa (~0.5m)	1 GNSS recei	ver from DK is used depending on GNSS conditions





# MTi-680G

- Rugged, IP68 rated RTK GNSS/INS
- 0.2 deg roll/pitch & cm-level position accuracy
- Internal u-blox ZED F9 RTK enabled GNSS receiver

The MTi-680G is an RTK enabled 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 cm-level positioning and orientation tracking for outdoor applications. It features a incredibly powerful onboard u-blox ZED F9 RTK GNSS receiver to provide superior positioning performance. It is designed for easy integration and seamless interfacing with other equipment.

The MTi-680G 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 Performance		Barometer	
Roll, Pitch	0.2 deg RMS	Standard full range	300-1250 hPa
Yaw/Heading	0.5 deg RMS	Total RMS noise	1.2 Pa
Position	1cm+1ppm CEP <sup>1</sup>	Relative accuracy	+/- 8 Pa (~0.5m)
Velocity	0.05m/s RMS	Mechanical	
Gyroscope		IP-rating	IP68
Standard full range	2000 deg/s	Operating Temperature	-40 to 85 °C
In-run bias stability	8 deg/h	Casing material	Aluminum
Bandwidth (-3dB)	520 Hz	Mounting orientation	No restriction, full 360° in all axes
Noise Density	0.007 º/s/√Hz	Dimensions	56.50x40.90x36.75 mm
g-sensitivity (calibr.)	0.1 º/s/g	Connector	Main: ODU (AMC HD 12 pins)
Accelerometer			RTCM: ODU (AMC HD 4 pins)
Standard full range	10 g		Antenna: SMA
	10  y	Weight	98 g
Bandwidth (-3dB)	500 Hz	Certifications	CE, FCC, RoHS
Noise Density	60 µg/√Hz	Interfaces / IO	
Magnetometer		Interfaces	CAN, RS232
Standard full range	+/- 8 G	Sync Options	SyncIn, SyncOut, ClockSync
Total RMS noise	1 mG	Protocols	Xbus, ASCII (NMEA) or CAN
Non-linearity	0.2%	Clock drift	1ppm
Resolution	0.25 mG	Output Frequency	Up to 2kHz, 400 Hz SDI
		Built-in-self test	Gyro, Acc, Mag, Baro, GNSS
RIK GNSS Receiver		Software Suite	
Brand	u-blox	GUI (Windows/Linux)	MT Manager, Firmware updater,
Model	ZED F9		Magnetic Field Mapper
RTK correction input	RTCM 3.2/3.3	SDK (Example code)	C++, C#, Python, Matlab, Nucleo,
RICM input port	RS232 (38K4-921K6 bit/s)		public source code
Electrical		Drivers	LabVIEW, ROS, GO
Input voltage	4.5 to 24V	Support	Online manuals, community and
Power consumption (typ)	<1 W <sup>1</sup> Depending on GNSS conditions	s	knowledge base





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



# MTi-G-710

- Movella's high-performance product line
- 0.2 deg in roll/pitch, 0.8 deg in heading accuracy
- Complete SDK and development kits available

The MTi-G-710 features vibration-rejecting gyroscopes, and offers high-quality position, velocity, acceleration, and orientation, even in challenging environments.

With Xsens technology inside, the all-in-one sensor system supports optimized temperature calibration, high-frequency position and orientation output, and has configurable output settings for synchronization with any third-party device.

The MTi-G-710 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		1
Roll, Pitch	0.2 deg RMS	Ι
Yaw/Heading	0.8 deg RMS	(
Position	1.0 m (1σ STD)	(
Velocity	0.05 m/s (1σ STD)	٢
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	Ι
Accelerometer		F
Standard full range	20 g	]
In-run bias stability	15 µg	Ι
Bandwidth (-3dB)	375 Hz	9
Noise Density	60 µg/√Hz	F
Magnetometer		(
Standard full range	+/- 8 G	(
Total RMS noise	0.5 mG	E
Non-linearity	0.2%	9
Resolution	0.25 mG	C
GNSS Receiver		
Brand	u-blox	0
Model	MAX-M8	
RTCM input port	n/a	]
Barometer		
Standard full range	300-1100 hPa	
Total RMS noise	3.6 Pa	
Resolution	~0.08m	



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

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Ficchanical	
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	58 g
Certifications	CE, FCC, RoHS, MIL-STD-202
Electrical	
Input voltage	3V3, 4.5V-34V
Power consumption (typ)	660 mW
Interfaces / IO	
Interfaces	USB, RS232, RS422, UART
Sync Options	SyncIn, SyncOut, ClockSync
Protocols	Xbus, ASCII (NMEA)
Clock drift	1 ppm
Output Frequency	Up to 2kHz
Built-in-self test	Gyr, Acc, Mag
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	Online manuals, community and
	knowledge base







## Xsens Sirius AHRS

> Achieve new levels of accuracy with high-quality calibrated roll, pitch and yaw data

- > Vibration- and shock- resistant signal pipeline
- > Rugged and military standard certified
- > Flexible interfaces and protocols for seamless integration



#### Sensor fusion performance

Casing material

Roll, Pitch	0.2 ° RMS
/aw/Heading	<1 ° RMS
Strapdown Integration (SDI)	Yes
Gyroscope	
Standard full range	± 300 °/s
n-run bias stability	7°/h
Bandwidth (-3dB)	400 Hz
Noise Density	0.003 °/s/√Hz
g-sensitivity (calibr.)	0.08 °/s/g
Accelerometer	
Standard full range	±8g
n-run bias stability	15 µg
Bandwidth (-3dB)	470 Hz
Noise Density	15 µg/√Hz
Magnetometer	
Standard full range	+86
	1mG
	0.2%
Non-Intearity	0.2%
Resolution	0.25 mG
An and a second second	
viecnanical	15/0
P-rating	IP68
Operating Temperature	-40 to +85 °C

### **Description**

The Xsens Sirius AHRS features vibration- and shockresistant signal pipeline and offers high-quality calibrated inertial and orientation data (roll, pitch. yaw), even in extreme vibration conditions.

With Xsens technology inside, the all-in-one sensor system supports optimized temperature calibration, high frequency output, robustness against magnetic disturbances, and has configurable output settings for synchronization with any third-party device.

The Xsens Sirius AHRS 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 options available
- > 3D models available on request

No restriction, full 360° in all axes 56.50 x 40.90 x 24.75 mm Main: ODU (AMC HD 12 pins) 78.5g grams CE, FCC, RoHS, MIL-STD-202, ITAR free

4.5V-24V

520 mW

### Electrical

Input voltage Power consumption (typ)

### Interfaces / IO

nterfaces	RS232, RS422, CAN
Sync Options	Syncln, SyncOut, C
Protocols	Xbus, ASCII (NMEA)
Clock drift	10 ppm (or externa
Dutput Frequency	Up to 400Hz
Built-in-selftest	Gyr, Acc, Mag

#### **Software Suite**

GUI (Windows/Linux)
SDK (Example code)
Drivers
Support

SyncIn, SyncOut, ClockSync Kbus, ASCII (NMEA), CAN IO ppm (or external) Jp to 400Hz Gyr, Acc, Mag

MT Manager, Firmware updater,
Magnetic Field Mapper
C++, C#, Python, Matlab,
Public source code
LabVIEW, ROS, GO
Online manuals, community
and knowledge base

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Aluminum



## Xsens Sirius IMU

- > Achieve new levels of accuracy with high-quality calibrated IMU data
- > Vibration- and shock- resistant signal pipeline
- > Rugged and military standard certified
- > Flexible interfaces and protocols for seamless integration



### Sensor fusion performance

Accelerometer	Calibrated
Gyroscope	Calibrated
Strapdown Integration (SDI)	Yes

### Gyroscope

Standard full range –	± 300 °/s
In-run bias stability –	7°/h
Bandwidth (-3dB)	400 Hz
Noise Density	0.003 °/s/√Hz
g-sensitivity (calibr.)	 0.08 °/s/g

±8g

15 µg

470 Hz 15 µg/√Hz

### Accelerometer

Standard full range	
In-run bias stability	
Bandwidth (-3dB)	
Noise Density	

### Magnetometer

Standard full range	±8G
Total RMS noise	1 mG
Non-linearity	0.2%
Resolution	0.25 mG

### **Mechanical**

IP-rating	IP68
Operating Temperature	-40 to +85 °C
Casing material	Aluminum

### **Description**

The Xsens Sirius IMU features vibration- and shockresistant signal pipeline and offers high-quality calibrated inertial data, even in extreme vibration conditions.

With Xsens technology inside, the all-in-one sensor system supports optimized temperature calibration, high frequency output, robustness against magnetic disturbances, and has configurable output settings for synchronization with any third-party device.

The Xsens Sirius IMU 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 options available
- > 3D models available on request

Nounting orientation	
Dimensions	
Connector	
Veight	
Certifications	

No restriction, full 360° in all axes 56.50 x 40.90 x 24.75 mm Main: ODU (AMC HD 12 pins) 78.5 grams CE, FCC, RoHS, MIL-STD-202, ITAR free

4.5V-24V

<1W

### Electrical

Γ

(

١

Input voltage Power consumption (typ)

### Interfaces / IO

Interfaces	RS232, RS422, CAN
Sync Options	SyncIn, SyncOut, ClockSync
Protocols	Xbus, ASCII (NMEA), CAN
Clock drift	10 ppm (or external)
Output Frequency	Up to 400Hz
Built-in-self test	Gvr. Acc. Mag

### Software Suite

GUI (Windows/Linux)	
SDK (Example code)	
Drivers	

MT Manager, Firmware updater, Magnetic Field Mapper C++, C#, Python, Matlab, Public source code LabVIEW, ROS, GO Online manuals, community and knowledge base

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Support

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## Xsens Sirius VRU

> Achieve new levels of accuracy with high-quality calibrated roll, pitch and unreferenced yaw data

- > Vibration- and shock- resistant signal pipeline
- Rugged and military standard certified

Flexible interface and protocols for seamless integration



### Description

The Xsens Sirius VRU features vibration- and shockresistant signal pipeline and offers high-quality calibrated inertial data and orientation data (roll, pitch, unreferenced yaw), even in extreme vibration conditions.

With Xsens technology inside, the all-in-one sensor system supports optimized temperature calibration, high frequency output, robustness against magnetic disturbances, and has configurable output settings for synchronization with any third-party device.

The Xsens Sirius VRU 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 options available
- > 3D models available on request

#### Sensor fusion performance Mounting orientation No restriction, full 360° in all axes 0.2 ° RMS Roll, Pitch Dimensions 56.50 x 40.90 x 24.75 mm unreferenced low Connector Main: ODU (AMC HD 12 pins) Yaw/Heading drift Weight 78.5 grams Strapdown Integration (SDI) Yes Certifications CE, FCC, RoHS, MIL-STD-202, ITAR free Gyroscope Standard full range + 300 °/s Electrical 7°/h In-run bias stability 4.5V-24V Input voltage 400 Hz Bandwidth (-3dB) <1W Power consumption (typ) 0.003 °/s/√Hz Noise Density 0.08 °/s/g g-sensitivity (calibr.) Interfaces / IO RS232, RS422, CAN Accelerometer SyncIn, SyncOut, ClockSync Standard full range ±8g Xbus, ASCII (NMEA), CAN 15 µg In-run bias stability 10 ppm (or external) Bandwidth (-3dB) Up to 400Hz

### Magnetometer

Noise Density

Standard full range	
Total RMS noise	
Non-linearity	
Resolution	

### Mechanical

IP-rating		_
Operating Temperature		
Casing material		

470 Hz 15 µg/√Hz

+/- 8 G 1 mG 0.2% 0.25 mG

IP68 -40 to +85 °C Aluminum

Interfaces
Sync Options
Protocols
Clock drift
Output Frequency
Built-in-colf test

### Software Suite

GUI (Windows/Linux)
SDK (Example code)
Drivers
Support

MT Manager, Firmware updater, Magnetic Field Mapper C++, C#, Python, Matlab, Public source code LabVIEW, ROS, GO Online manuals, community and knowledge base

Gyr, Acc, Mag

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