MTi-620

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

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

The MTi-620 is a Vertical Reference System with a small form-factor design for deep integration into your application. Building on the proven 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.

31.50 mm - 28.00 mm

- White label and OEM integration options available
- 3D models available on request
- Available online via Digi-Key, Mouser, Farnell and local distributors

Sensor Fusion Performan	се	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	4 deg/h	Connector	Main: Phoenix Contact 16 pin, 1.27 mm
Bandwidth (-3dB)	500 Hz		pitch
Noise Density	0.004 º/s/√Hz	Weight	— 8.9 g
g-sensitivity (calibr.)	0.001 °/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)	<1 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
GNSS Receiver		Software Suite	
Brand	n/a	GUI (Windows/Linux)	MT Manager Firmware updater,
Model	n/a		Magnetic Field Mapper
RTCM input port	n/a	SDK (Example code)	C++, C#, Python, Matlab, Nucleo,
Barometer			public source code
Standard full range	300-1250 hPa	Drivers	LabVIEW, ROS, GO
Total RMS noise	1.2 Pa	Support	BASE by XSENS: online manuals,
	+/- 8 Pa (~0.5m)		
Relative accuracy	+/- o Pa (20.511)		





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