MTi-620

- 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 Performan	nce	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 °/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			— SyncIn, SyncOut, ClockSync
Standard full range		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 and not binding.		Drivers	LabVIEW, ROS, GO
Complete and detailed specifications are available at		Support	 Online manuals, community and
complete and detailed specifications are available at			knowledge base



mtidocs.movella.com



knowledge base