## MTi-620R

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

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

The MTi-620R 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.

## **Sensor Fusion Performance**

0.2 deg RMS unreferenced, low drift
Yes
2000 deg/s 8 deg/h 520 Hz 0.007 °/s/√Hz 0.1 °/s/g
10 g 10 (x,y) 15(z) μg 500 Hz 60 μg/√Hz
+/- 8 G 1 mG
0.2% 0.25 mG
n/a n/a n/a
300-1250 hPa 1.2 Pa +/- 8 Pa (~0.5m)



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** 

## Mechanical

Mechanical	
IP-rating	IP68
Operating Temperature	-40 to 85 °C
Casing material	Aluminum
Mounting orientation	No restriction, full 360° in all axes
Dimensions	56.5x40.9x24.75 mm
Connector	Main: ODU (AMC HD 12 pins)
Weight	75 g
Certifications	CE, FCC, RoHS
Electrical	
Input voltage	4.5 to 24V
Power consumption (typ)	<0.5 W
Interfaces / IO	
Interfaces	CAN, RS232
Sync Options	SyncIn, SyncOut, ClockSync
Protocols	Xbus, ASCII (NMEA) or CAN
Clock drift	10ppm (or external)
Output Frequency	Up to 2kHz, 400 Hz SDI
Built-in-self test	Gyr, Acc, Mag, Baro
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.