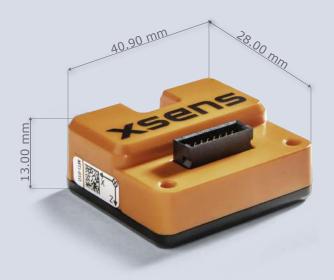
MTi-620

- Small, IP 51 rated IMU
- 0.2 deg roll/pitch accuracy
- Full GUI and 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.



Sensor Fusion Performance Roll, Pitch 0,2 deg RMS unreferenced, low drift Yaw/Heading Strapdown Integration (SDI) Gyroscope Standard full range 2000 deg/s In-run bias stability 8 deg/h Bandwidth (-3dB) 520 Hz 0.007 °/s/√Hz Noise Density g-sensitivity (calibr.) 0.001 °/s/g **Accelerometer** Standard full range 10 g In-run bias stability 10 (x,y) 15(z) μg Bandwidth (-3dB) 500Hz Noise Density 60 μg/√Hz Magnetometer Standard full range +/-8G Total RMS noise 1 mG Non-linearity 0.2% Resolution 0.25 mG **GNSS Receiver** Brand n/a Model n/a RTCM input port n/a **Barometer** Standard full range 300-1250 hPa Total RMS noise 1.2 Pa

IP-rating	IP51
Operating Temperature	-40 to 85 °C
Casing material	PC-ABS
Mounting orientation ————	No restriction, full 360° in all axes
Dimensions —————	28x31.50x13 mm
Connector —————	Main: Phoenix Contact 16 pin, 1.27 mm
	pitch
Weight ————	8.9 g
Flactuical	
Electrical	
Input voltage	4.5 to 24V
Power consumption (typ)	<1 W
Interfaces / IO	
Interfaces	UART, CAN, RS232
Sync Options	SyncIn, SyncOut, ClockSync
Protocols	Xbus, ASCII (NMEA) or CAN
Clock drift	10 ppm (or external)
Output Frequency	2 kHz, 400 Hz SDI
Built-in-self test	Yes
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

• White label and OEM integration options available

BASE by XSENS: online manuals,

community and knowledge base

• 3D models available on request

Support

Mechanical

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



Relative accuracy



+/- 8 Pa (~0.5m)