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 rugged housing featuring IP68 protection against environmental influences. 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-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
- Available at DigiKey, Mouser, Farnell, Arrow and local distributors

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Sensor	Fucion	Darfarn	ADRE

Currence	
Strapdown Integration (SDI)	Yes
Yaw/Heading	1 deg RMS
Roll, Pitch	0,2 deg RMS

Gyroscope

Standard full range	2000 deg/s
In-run bias stability	8 deg/h
Bandwidth (-3dB)	520 Hz
Noise Density	0.007 °/s/√Hz
g-sensitivity (calibr.)	0.001 °/s/g

Accelerometer Standard full range

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In-run bias stability	10 (x,y) 15(z) μg
Bandwidth (-3dB)	500 Hz
Noise Density	60 μg/√Hz

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Magnetometer

Standard full range	+/- 8 G
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
Relative accuracy	+/- 8 Pa (~0.5m)

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)	<1 W

Interfaces / IO

Interfaces	CAN, RS232
Sync Options	SyncIn, SyncOut, ClockSync
Protocols	Xbus, ASCII (NMEA) or CAN
Clock drift	10 ppm (or external)
Output Frequency	Up to 2 kHz, 400 Hz SDI
Built-in-self test	Gyr, Acc, Mag, Baro

Software Suite

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	BASE by XSENS: online manuals,
	community and knowledge base



