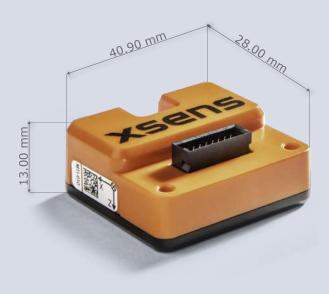
MTi-630

- Small, IP 51 rated IMU
- 0.2 deg roll/pitch, 1 deg heading accuracy
- Full GUI and SDK available

The MTi-630 is an Attitude and Heading 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-630 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		Mee
Roll, Pitch	0,2 deg RMS	IP-ra
Yaw/Heading	1 deg RMS	Oper
Strapdown Integration (SDI)	Yes	Casir
Gyroscope		Mour
Standard full range	2000 deg/s	Dime
In-run bias stability	8 deg/h	Conr
Bandwidth (-3dB)	520 Hz	
Noise Density	0.007 °/s/√Hz	Weig
g-sensitivity (calibr.)	0.001 º/s/g	Ele
Accelerometer		Inpu
Standard full range	10 g	Powe
In-run bias stability	10 (x,y) 15(z) μg	Inte
Bandwidth (-3dB)	500Hz	Inter
Noise Density	60 µg/√Hz	Sync
Magnetometer		Proto
Standard full range	+/- 8 G	Clock
Total RMS noise	1 mG	Outp
Non-linearity	0.2%	Built
Resolution	0.25 mG	Sof
GNSS Receiver		GUI
Brand	n/a	
Model	n/a	SDK
RTCM input port	n/a	Duin
Barometer		Drive Supp
Standard full range	300-1250 hPa	oupp
Total RMS noise	1.2 Pa	
Relative accuracy	+/- 8 Pa (~0.5m)	• W

Mechanical		
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	
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	
Support	BASE by XSENS: online manuals,	
	community and knowledge base	
White label and OFM interpretion actions available		

• White label and OEM integration options available

• 3D models available on request

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



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

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