



xsens



Orientation. Position. Xsens.

MTi series

The most accurate and complete MEMS AHRS and GPS/INS



XSENS SUPPLIES MINIATURE MEMS BASED MOTION TRACKERS (IMU, VRU, AHRS AND GPS/INS) FOR INDUSTRIAL APPLICATIONS SUCH AS ANTENNA/CAMERA STABILIZATION AND UNMANNED SYSTEM CONTROL.

TYPICAL APPLICATIONS



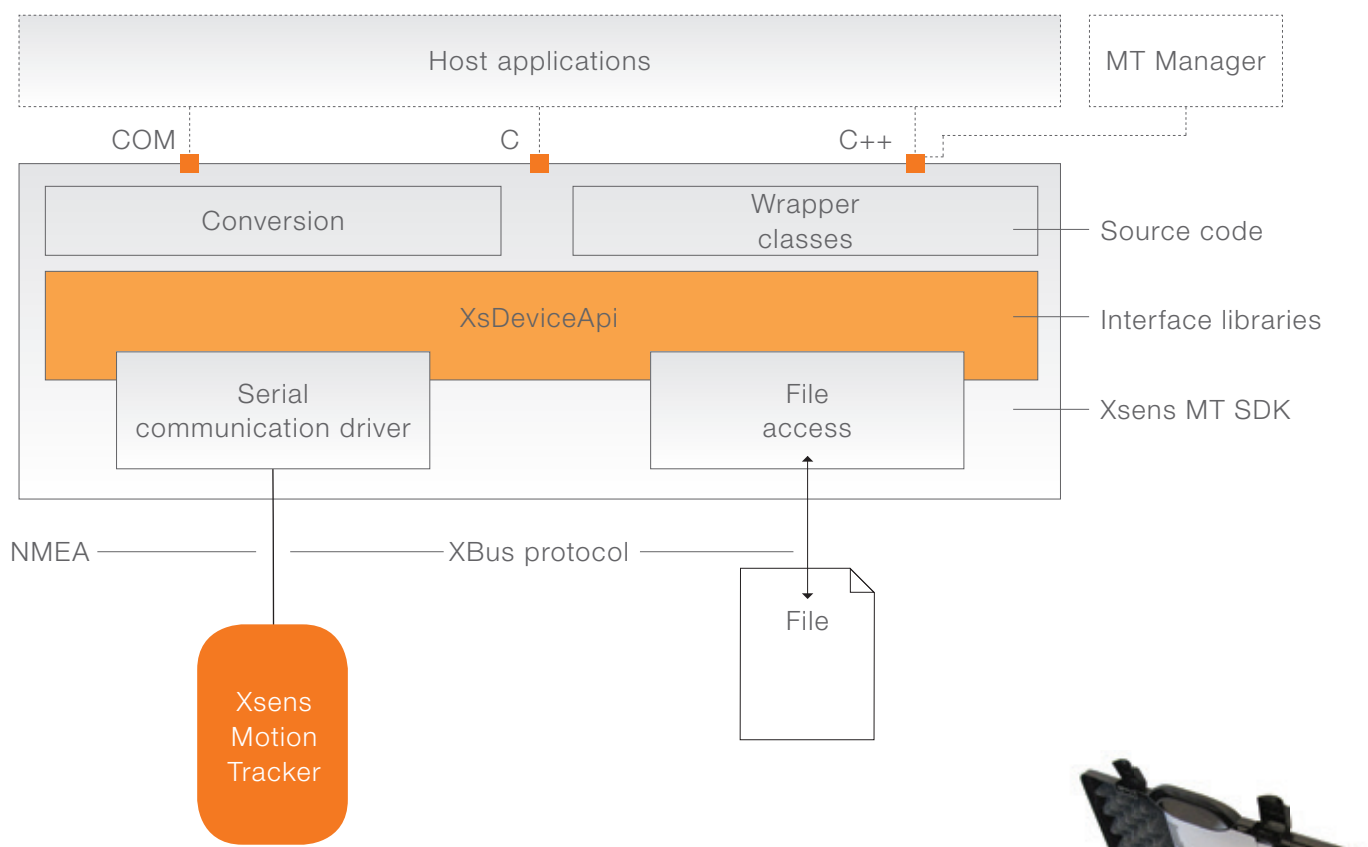
Xsens MTI product line overview					
	Roll/Pitch Typ (Max)	Roll/Pitch Typ (Max)	Yaw Typ	Sensor fusion core	Position & Velocity
MTi 10-series	Static	Dynamic			
MTi-10 IMU	-	-	-	-	-
MTi-20 VRU	0.2 ° (0.4 °)	0.5 ° (2.0 °)	Active Heading Stabilization	XKF	-
MTi-30 AHRS	0.2 ° (0.4 °)	0.5 ° (2.0 °)	1.0 °	XKF	-
MTi 100-series					
MTi-100 IMU	-	-	-	-	-
MTi-200 VRU	0.2 ° (0.25 °)	0.3 ° (1.0 °)	Active Heading Stabilization	XEE	-
MTi-300 AHRS	0.2 ° (0.25 °)	0.3 ° (1.0 °)	1.0 °	XEE	-
MTi-G-700 GPS/INS	0.2 ° (0.25 °)	0.3 ° (1.0 °)	1.0 °	XEE	1m

SYSTEM INTEGRATION

Integration with the MTi is very straightforward with the Xsens MT Software Suite. The MT Software Suite is an easy-to-use API which can be interfaced with via a COM, C and C++ interface with support for Windows and Linux. In addition, there is complete access to the low level source code for full flexibility on any platform. The components of the MT Software Suite are:

Xsens Device API	API to communicate with the MTi. Interfaces for common programming languages as well as source code for lower communication levels.
Example code	To make starting with the MTi even easier, example code is provided for various platforms, amongst others Matlab and Linux.
MT Manager	An intuitive GUI for Windows, including configuration and recording tools, graphs and a serial port viewer to help understand the XBus protocol.
Magnetic Field Mapper	An algorithm and tool to calibrate the MTi for hard- and soft iron effects. The calibration can be done during normal operation; there are no restrictions on the trajectories or rotations.
Documentation	Full (HTML-)documentation on the MTi, API, SDK and application notes.

XSENS MT SOFTWARE SUITE



DEVELOPMENT KIT

The best way to start with the MTi is with the complete MTi Development Kit. This kit will make development very easy. The MTi Development Kit contains the following items:

- One MTi
- Cable set for USB and serial communication, as well as GPIOs
- MT Software Suite (on USB flash drive)
- Robust suitcase
- Test and calibration certificates





ABOUT XSENS

Xsens is the leading innovator in 3D motion tracking technology and products. Its sensor fusion technologies enable a seamless interaction between the physical and the digital world in applications such as industrial control and stabilization, health, sports and 3D character animation. Clients and partners include Electronic Arts, NBC Universal, Daimler, Autodesk, ABB, Siemens and various other leading institutes and companies throughout the world.

Xsens is a Fairchild Semiconductor company, an industry icon delivering power solutions for the mobile, industrial, cloud, automotive, lighting, and computing industries. Xsens has offices in Enschede, the Netherlands and Los Angeles, California.

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