

# Xsens Launches New Family of Motion Trackers



Xsens, the Dutch innovator in 3D motion tracking technology, has expanded its successful 4th generation MTi product portfolio by releasing a new series of complete, self-contained 3D IMU/VRU/AHRS motion tracking modules for high volume industrial and prosumer applications. The new MTi 1-series of Motion Trackers incorporates the latest in advanced sensor fusion and miniature MEMS technologies. Individually calibrated and tested to enable minimal implementation effort, the MTi 1-series delivers a dynamic accuracy of 1 deg RMS for roll and pitch, making them the most accurate 3D motion trackers in their class.

The communication protocol and API is identical across the entire Xsens product portfolio; making integration of MTi 1-series, de facto industry standard MTi 10-series and high-performance MTi 100-series easy. Designers can choose from a wide selection of high-performance 3D motion trackers and select the Xsens motion tracker suitable for their design, while re-using validated driver and application codes from other projects, dramatically reducing engineering time and risk.

The MTi 1-series is a 12x12x2.5 mm PLCC28-compatible module that can output orientation, acceleration, rate of turn and magnetic field from its I2C, SPI or UART interfaces. The advanced signal processing pipeline, along with the proven XKF3 sensor fusion algorithm, ensures first-rate performance in many applications including robotics, agriculture, heavy machinery, handheld laser scanners and drones. The module's onboard processing reduces the load on the application processor to lower the overall power consumption of the end system, while consuming less than 45 mW. The MTi 1-series is CE and FCC-certified.

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