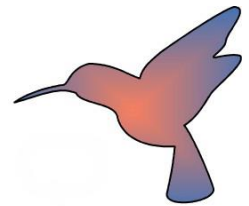


TRIVISIO

Specification Sheet – Colibri Wired

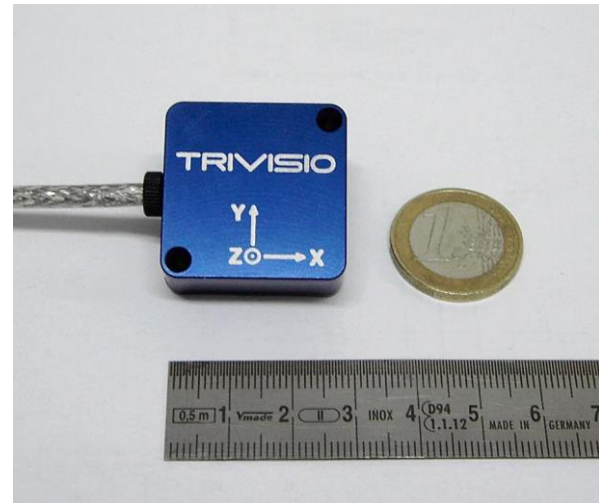


GENERAL DESCRIPTION

Colibri is the Inertial Measurement Unit (IMU). It carries 3-axis state-of-art sensors to measure acceleration, angular rate and magnetic field. Built-in temperature sensor helps to eliminate temperature influences on other sensors.

Colibri can output both raw sensor data and calibrated floating-point data. You may enable/disable data from any sensor and change frequency from 10 to more than 100Hz.

Supplied API for Windows and Linux implements orientation tracker. Using it you will simply get orientation data in Euler angles or quaternion form.



FEATURES

SENSORS

- 3-axis MEMS accelerometer
- 3-axis MEMS gyroscope
- 3-axis MI (magneto-inductive) magnetic sensor
- Temperature sensor

USAGE

- Low power consumption
- USB interface (Virtual COM-port)
- Both machine and human friendly interfaces

SOFTWARE

- Software API for Windows and Linux representing extended Kalman filter for the orientation tracking

CASING

- Robust, waterproof, high-precision aluminum case

SPECIFICATIONS

Accelerometer	Scale: ± 16 g Resolution: 13-bit
Gyroscope	Scale: ± 1500 o/s Resolution: 13-bit
Magnetic sensor	Scale: ± 1100 μ T Resolution: from 0.0263 μ T (10 Hz) to 0.8421 μ T (250 Hz)
Temperature sensor	Accuracy: ± 0.5 °C over a 0 °C to +70 °C range
Working frequency	100 Hz
Orientation accuracy	Pitch/roll: 0.5 ° Yaw: 1.0 °
Power consumption	5 V from USB - 40 mA
PC connection	2 meters (or up to 5 m) USB cable
Dimensions	30 x 30 x 13 mm
Weight	22grams (without cable)



TRIVISIO PROTOTYPING GmbH
Herzogenbuscher Straße Nr. 14
54292 Trier, Germany

Tel: +49 (0) 651-699 880 28
Fax: +49 (0) 651-699 330 48
Email: info@trivisio.com
www.trivisio.com