## APPLICATIONS

Gaming and virtual reality input devices
Motion control with man-machine interface
Personal navigation devices
Appliances and robotics

## FEATURES

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

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

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

Robust, high-precision aluminum case

## 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 100 Hz.

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

## SPECIFICATIONS

Accelerometer
> Scale: ±16g
> Resolution: 13-bit

Gyroscope
> Scale: ±300º/s
> Resolution: 10-bit
> ( ±1500º/s, 13-bit coming soon)

Magnetic sensor
> Scale: ±1100µT
> Resolution: from 0.0263µT (37Hz) to
> 3.3681µT (4700Hz)

Temperature sensor
> Accuracy: ±0.5°C
> over a 0°C to +70°C range

Working frequency
> 100 Hz

Power consumption
> 5V from USB
> 50mA max

Dimensions
> 30x30x14mm

Weight
> 18 grams

PC connection
> micro-USB