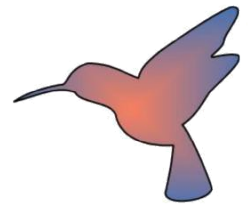# TRIVISIO

Specification Sheet – Colibri Wireless

GENERAL DESCRIPTION

Colibri Wireless 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.

Up to 10 Colibri-Wireless could be connected in the synchronous network to the single USB-dongle (receiver). Several networks may be synchronized via cable.

Sampling frequency is 100 Hz for every tracker.
Supplied API for Windows and Linux implements orientation tracker.

FEATURES

3-axis MEMS accelerometer
3-axis MEMS gyroscope
3-axis magneto-resistive
sensor Temperature sensor

2.4 GHz band operation
10 meters working distance
16 hours operation with built-in
battery micro-USB charging
Up to 10 trackers synchronized in the
wireless Network

USB-dongle (receiver), with USB interface (Virtual COM-port) and synchronization IN/OUT to join 2 or more Colibri networks

Sync output (for OEMs, e.g. to synchronize with a camera)

Software API is usable with Windows and Linux Colibri can output orientation data in quaternion form

SPECIFICATIONS

Accelerometer	Scale:	±6 g
	Resolution:	13-bit
Gyroscope	Scale: •	±2000 °/s
	Resolution:	16-bit
Magnetic sensor	Scale:	±1.3 Ga
	Resolution:	12-bit
Temperature sensor	Accuracy: •	±0.5 °C
Operation Temperature	0..+55 °C (self-powered)	
	0..+40 °C (charging)	
Working frequency	100 Hz	
Orientation accuracy	Pitch/roll: 0.5 °	
	Yaw: 2.0 °	
Non-volatile memory	1024 bytes	
for user data		
Power consumption	3.7V Li-Pol battery 595mAh	
	40 mA	
Dimensions	56 x 42 x 17 mm	
Weight	41 grams	