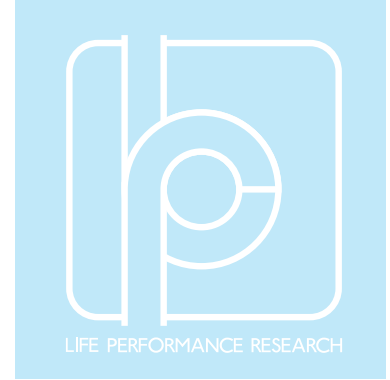
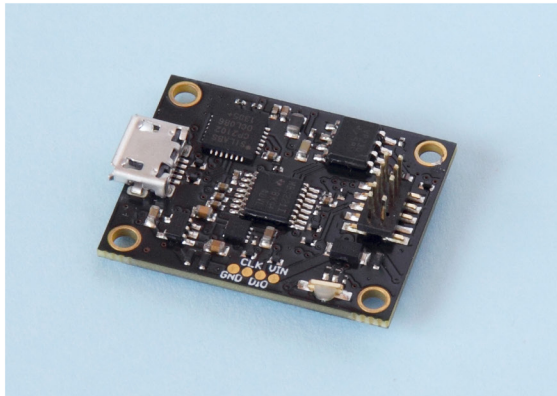


# LPMS-CURS2



## LPMS Wired Miniature Motion Sensor / IMU / AHRS with CAN Bus, USB and UART Connectivity

The LPMS-CURS2 is an innovative and high performance miniature motion sensor with multiple communication interfaces. Integrating CAN Bus, USB and UART, the LPMS-CURS2 perfectly fits both machine and human motion measurements for size and cost sensitive applications.

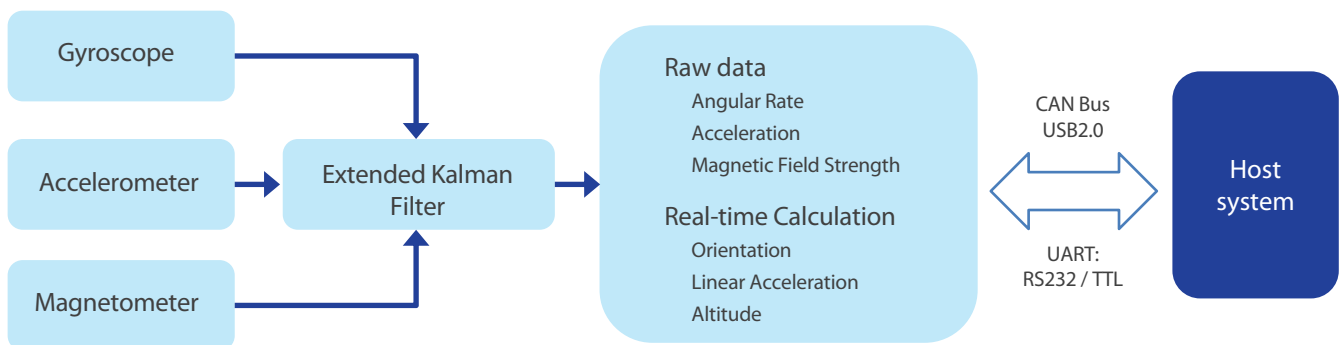


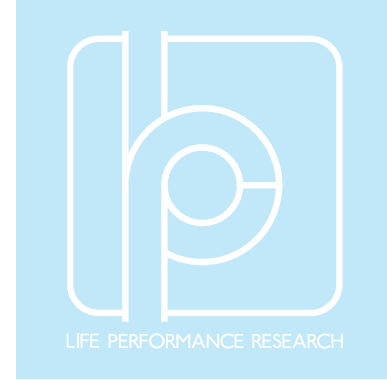
### Key Features

- MEMS miniature inertial measurement unit (IMU)
- Integration of 3-axis gyroscope, accelerometer, magnetometer, temperature and barometric pressure sensor in one unit
- Real-time, on-device calculation of sensor orientation, linear acceleration and altitude
- Data output rates of up to 400Hz
- Variety of wired interfaces: CAN Bus, USB, UART: RS232 or TTL
- Control application and SDK for Windows, Linux

### Applications

- Human motion capture
- Internet of Things (IoT) devices
- Sports performance evaluation
- Drone flight control

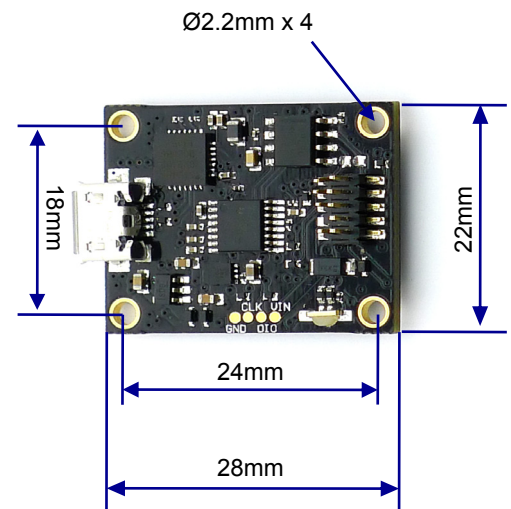




## Sensor Specifications

Wired interface	CAN Bus	UART: RS232/TTL	USB
Max. baudrate	1Mbit/s	921.6Kbit/s	921.6Kbit/s
Communication protocol	LpCAN/ CANOpen	LpBus	LpBus
Size	22 x 28 x 7.9 mm		
Weight	3.1g		
Orientation range	Roll: $\pm 180^\circ$ ; Pitch: $\pm 90^\circ$ ; Yaw: $\pm 180^\circ$		
Resolution	< 0.01°		
Accuracy	< 0.5° (static), < 2° RMS (dynamic)		
Accelerometer	3-axis, $\pm 2 / \pm 4 / \pm 8 / \pm 16$ g, 16 bits		
Gyroscope	3-axis, $\pm 125 / \pm 245 / \pm 500 / \pm 1000 / \pm 2000$ dps, 16 bits		
Magnetometer	3-axis, $\pm 4 / \pm 8 / \pm 12 / \pm 16$ gauss, 16 bits		
Pressure sensor	300-1100 hPa		
Data output format	Raw data / Euler angle / Quaternion		
Data output rate	up to 400Hz		
Power consumption	< 182 mW @ 3.3V		
Power supply	5 V ~ 15 V DC*	5 V DC	
Connector	Header pitch 1.27 mm	Micro USB-B	
Temperature range	- 40 ~ +80°C		
Software	C++ library for Windows, LpmsControl software and Open Motion Analysis Toolkit (OpenMAT) for Windows.		

## Mechanical drawing



\*3.3V power supply is optional. Please contact us for more details.

## Package

- LPMS-CURS2 sensor x 1
- User guide card x 1
- Cable (1.27mm pitch connector) x 1
- Box x 1
- Warranty (1 year)



## LpmsControl Utility Software

