

Microcontrollers

AVR 8- and 32-bit MCUs

→ 32-bit AVR UC3 MCUs

AVR XMEGA MCUs

megaAVR MCUs

tinyAVR MCUs

Battery Management MCUs

Automotive AVR MCUs

SMART ARM-based MCUs

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Touch Solutions

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Memory

Drivers and Sensors

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Programmable Logic

Analog

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Microcontroller Selector

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AVRSBIN1

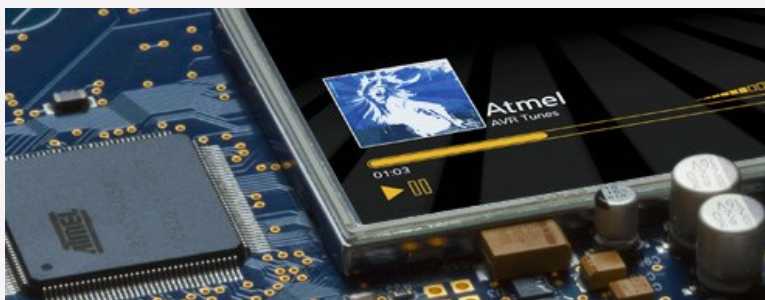
Overview

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Buy Now

The Atmel Inertial One Sensor Board delivers a full 9 degree of freedom sensor platform, combining an accelerometer, a compass and a gyroscope, and is ideal for developing motion sensing or user interface applications.

The Inertial One Sensor board contains the following sensor components, all interfaced via the I2C Serial Digital Interface.

This board is compatible with all of the Atmel AVR Xplain Series of controller boards offering a wide choice of Atmel AVR controllers for your solution.

Software

Sensors Xplained software support is available for all the supported sensor devices. The drivers work in conjunction with [AVR Studio 5](#) and the Atmel Software Framework versions 2.5 and higher.

- Accelerate your product development with driver support for a wide range of sensor solutions integrated to the Studio 5 development environment
- Provides a hardware independent C language interface to enable easy, flexible pairing of the ideal AVR microcontroller and your required sensor functions
- Drivers include support for calibration and scaling of data - providing you standard unit output from sensors, along with easy configuration and initialization
- Demonstration projects that quickly integrate software libraries and hardware definitions to accelerate your application development

[Read more](#)

Partners

Atmel has worked with a number of industry leading sensors companies to make easily available to you a range of best in class examples of popular types of sensors. Our current list of partners includes AKM, Bosch Sensortec, Honeywell Aerospace, InvenSense, Kionix and Osram Opto Semiconductors. Details and links to additional information can be found on [Atmel Sensor Partners Page](#).

Key Features

- **Provide full 9 degree of freedom motion sensing capabilities**
- **3 Axis Magnetometer from AKM (AK8975)**
- **3 Axis Accelerometer from Bosch (BMA150)**
- **3 Axis Gyroscope from InvenSense (ITG-3200)**
- **All sensors interface via I2C port**

Ordering Information

Ordering Code	Atmel Store Availability ¹	Unit Price ²	Buy Online
ATAVRSBIN1			Check Distributor

¹Backlog orders can be placed for items currently not available.

²Suggested retail price per unit for budgetary use only.



Products

- Microcontrollers
- Touch Solutions
- Automotive
- Wireless Connectivity
- Smart Energy
- Memory
- Drivers and Sensors
- Security ICs
- Programmable Logic
- Analog
- Rad Hard
- Digital Broadcast

Applications

- Automotive
- Building Automation
- Home Appliances
- Home Entertainment
- Industrial Automation
- Lighting
- Internet of Things (IoT)
- Smart Energy
- Mobile Electronics
- PC Peripherals
- Wearables

Support

- Boards and Kits
- Tools and Software
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