

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

8051 Architecture

Touch Solutions

Automotive

Wireless Connectivity

Smart Energy

Memory

Drivers and Sensors

Security ICs

Programmable Logic

Analog

Rad Hard

Digital Broadcast

Microcontroller Selector

Home > Products > Microcontrollers > AVR 8- and 32-bit MCUs > 32-bit AVR UC3 MCUs

AVRSBPR1

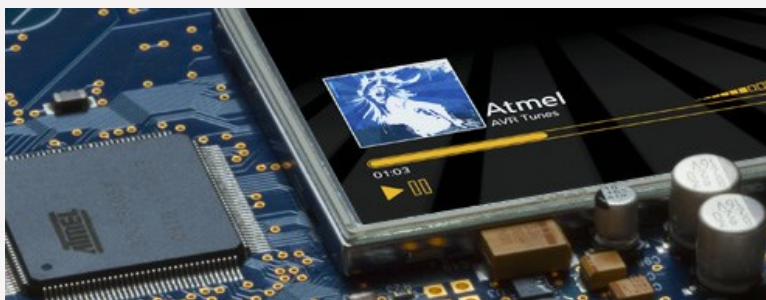
Overview

Devices

Documents

Applications

Related Tools



Buy Now

The Atmel Pressure One Sensor Board delivers a platform comprising a high precision Barometric Pressure sensor from Bosch (BMP085).

The Pressure 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 Xplained 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

- **Bosh BMP085 Barometric Pressure Sensor**
- **All sensors interface via I²C port**

Ordering Information

Ordering Code	Atmel Store Availability ¹	Unit Price ²	Buy Online
ATAVRSBPR1			Check Distributor

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

²Suggested retail price per unit for budgetary use only.

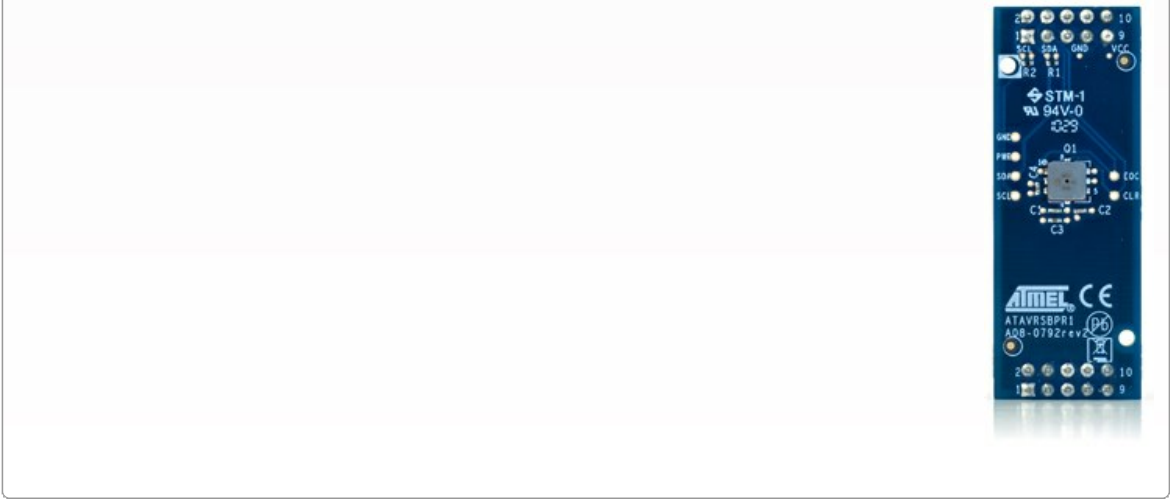
Get Started

We'll tell you all you need to know to start evaluating and working with this product.

[» Start Now](#)[» Contact Sales](#)[» Request Samples](#)[» Sign-up for News](#)

Related Items

- » Third Party Support
- » University Program
- » AVR Knowledge Base
- » Technical Support
- » What's Changed
- » Mature Devices



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
- Development Tools
- Document Library
- Training
- Support Resources
- Third-Party Tools/Support
- Design Consultants

About

- Corporate
- Press Room
- Contact Atmel
- Investors
- Careers
- Suppliers
- Embedded Design Blog
- Quality
- Compliance

Contact Atmel

- Buy
- Atmel Store FAQs
- Technical Support
- Communities