



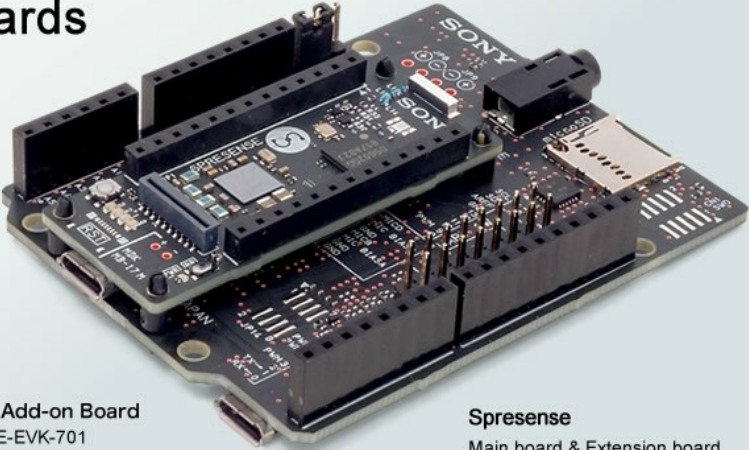
# Sensors & Bluetooth® Add-on Boards for Sony Spresense



Sensor Add-on Board  
SPRESENSE-SENSOR-EVK-701



Bluetooth® LE Add-on Board  
SPRESENSE-BLE-EVK-701

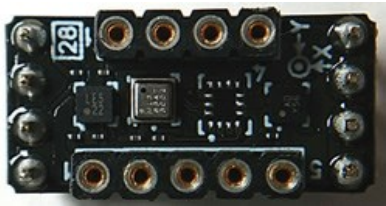


Spresense  
Main board & Extension board

[Sensor Add-on Board](#) | [Bluetooth®LE Add-on Board](#) | [What is Spresense?](#)

In addition to the high-resolution audio codec and GPS receiver functions provided by the Spresense board computer for IoT supplied by Sony Semiconductor Solutions Corp., the Sensor Add-On Board (SPRESENSE-SENSOR-EVK-701) and Bluetooth®LE Add-On Board (SPRESENSE-BLE-EVK-701) add sensor capability and Bluetooth®LE communication functionality that contributes to the development and evaluation of advanced IoT devices.

## Sensor Add-On Board SPRESENSE-SENSOR-EVK-701



The Sensor Add-On Board (SPRESENSE-SENSOR-EVK-701) add 3 types of sensors essential for motion sensing (acceleration, barometric pressure, geomagnetism) to the GPS receiver and high-resolution audio decoding functions provided by the Spresense board computer. In addition, the Sensor Expansion Connector makes it possible to add more than 7 types of sensors, including brightness, proximity, color, magnetic, temperature, UV, and heart rate (pulse wave) sensors. Software for each platform supported by Spresense, such as Arduino and NuttX, is provided as open-source, contributing to faster device evaluation and development.

### Onboard Products

| Part No.                   | Function                   | Sample                   |
|----------------------------|----------------------------|--------------------------|
| <a href="#">KX122-1037</a> | Accelerometer              | <a href="#">Purchase</a> |
| <a href="#">BM1422AGMV</a> | Geomagnetic Sensor         | <a href="#">Purchase</a> |
| <a href="#">BM1383AGLV</a> | Barometric Pressure Sensor | <a href="#">Purchase</a> |

### Arduino Drivers, Sample Applications

Arduino Libraries and Samples (External Links)

DOWNLOAD

### NuttX Drivers

NuttX Driver Libraries (External Links)

DOWNLOAD



ROHM's sensor evaluation kit SensorShield-EVK-003 supports open platforms such as Arduino Uno, Lazurite, and mbed. Evaluation can be performed by combining 8 of ROHM's high-performance sensors.

Onboard Sensors: [Accelerometer](#) / [Barometric Pressure Sensor](#) / [Geomagnetic Sensor](#) / [ALS+Proximity Sensor](#) / [Color Sensor](#) / [Temperature Sensor](#) / [Heart Rate Sensor](#)

[ROHM Sensor Evaluation Kit Support Page](#)

Bluetooth®LE Add-On Board SPRESENSE-BLE-EVK-701

The Bluetooth®Add-On Board (SPRESENSE-BLE-EVK-701) adds Bluetooth LE communication functionality to the Spresense board computer. A built-in antenna, along with certification under major radio laws including TELEC, FCC, CE, and IC, allow for immediate use as a wireless device when combined with Spresense. Software for each platform supported by Spresense (i.e. Arduino and NuttX) is provided as open-source, contributing to faster device evaluation and development. The BLE Tool smartphone app can also be used to verify communication with the device.

Onboard Products

| Part No.                   | Function            |
|----------------------------|---------------------|
| <a href="#">MK71251-02</a> | Bluetooth®LE module |

Arduino Drivers, Sample Applications

Arduino Libraries and Samples (External Links)

DOWNLOAD

NuttX Drivers

NuttX Driver Libraries (External Links)

DOWNLOAD

What is Spresense?

Spresense is a low-power board computer for IoT equipped with a GPS receiver and high-resolution audio codec. Designed to make IoT devices smarter and more sophisticated, it can be used to develop drones with GPS and advanced processing capability, smart speaker terminals that utilize an integrated full digital amp for high-resolution audio playback and recording, and low-power fixed-point observation cameras.

[Spresense Product Page](#)

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