

Add-On Boards for Sony SPRESENSE



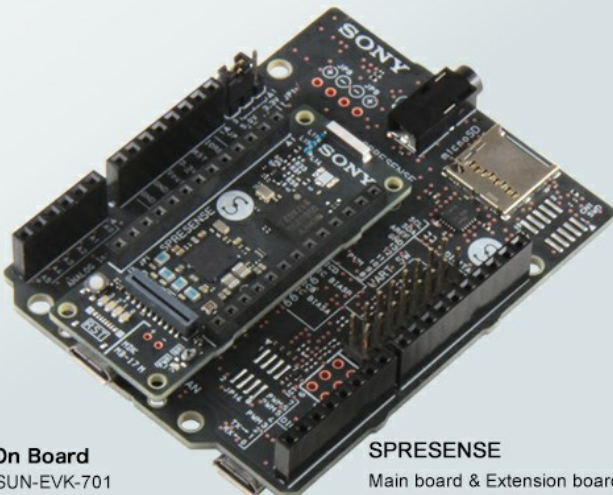
Sensor Add-On Board
SPRESENSE-SENSOR-EVK-701



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



NEW
Wi-SUN Add-On Board
SPRESENSE-WISUN-EVK-701



SPRESENSE
Main board & Extension board

[Wi-SUN Add-On 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 Wi-SUN Add-On Board (SPRESENSE-WiSUN-EVK-701), the Sensor Add-On Board (SPRESENSE-SENSOR-EVK-701) and Bluetooth®LE Add-On Board (SPRESENSE-BLE-EVK-701) add Wi-SUN wireless communication function, sensor capability and Bluetooth®LE communication function that contributes to the development and evaluation of advanced IoT devices.

[New] Wi-SUN Add-On Board SPRESENSE-WiSUN-EVK-701



The Wi-SUN Add-On Board adds the latest communication standard of Wi-SUN to SPRESENSE, enabling long distance communication with low power consumption. It also includes slot for sensor expansion board, facilitating the development of IoT devices.

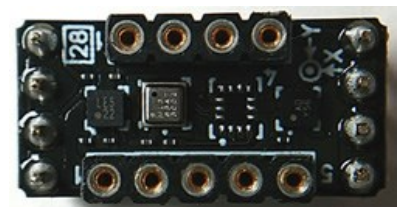
Part No.	Function	Sample
BP35C0-J11	Specified Low Power Radio Modules	Purchase

Arduino Drivers, Sample Applications

Arduino Libraries and Samples (External Links)

DOWNLOAD

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.

Purchase from Distributors

chip 1 stop

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Onboard Products

Part No.	Function	Sample
KX126-1063 (*1)	Accelerometer	Purchase
KX122-1037 (*1)	Accelerometer	Purchase
BM1422AGMV	Geomagnetic Sensor	Purchase
BM1383AGLV	Barometric Pressure Sensor	Purchase

^{*1} SPRESENSE-SENSOR-EVK-701 is equipped with either the KX122-1037 or KX126-1063. The onboard accelerometer will vary depending on the time of sale. The Sensor-Add-on-Demo.ino sample code allows the product to be used regardless of purchase date. Sample codes can be obtained from Arduino drivers and sample applications.

Arduino Drivers, Sample Applications

Arduino Libraries and Samples (External Links)

DOWNLOAD

NuttX Drivers

NuttX Driver Libraries (External Links)

DOWNLOAD

ROHM Sensor Evaluation Kit



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

Bluetooth®LE Add-On BoardSPRESENSE-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
MK71251-02	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

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