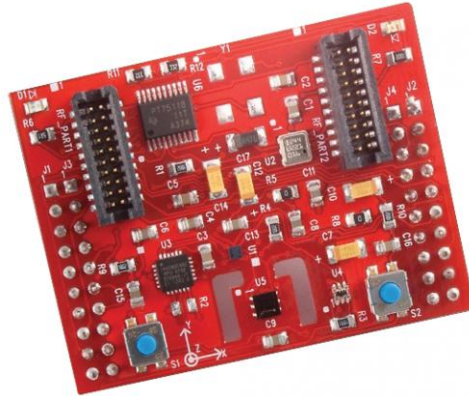


## Sensor Hub BoosterPack



### Description

The Texas Instruments Sensor Hub BoosterPack (BOOSTXL-SENSHUB) is an add-on board designed to fit the Tiva™ C Series TM4C123G LaunchPad along with all of TI's MCU LaunchPads. The Sensor Hub BoosterPack is a Tiva platform for evaluating the use of ARM® Cortex™-M4-based TM4C devices in sensor fusion applications, demonstrating the mathematical and algorithm computation features of the M4 architecture.

### Features

#### Seven on-board sensor functions, including:

- InvenSense MPU-9150: 9-axis MEMS motion tracking
  - 3-axis gyro
  - 3-axis accelerometer
  - 3-axis compass
- Bosch Sensortec BMP180 pressure sensor

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- Sensirion SHT21 humidity and ambient temperature sensor
- Intersil ISL29023 ambient and infrared light sensor
- TI's TMP006 non-contact infrared temperature sensor

**Uses BoosterPack XL connection standard:**

- Two pairs of 10-pin headers provide standard LaunchPad interface
- Primary header (outer row) compatible with other TIMCU LaunchPads
- Secondary header (inner row) offers additional Tiva C Series-based expansion signals
- 2× user input buttons and LEDs
- TI's wireless evaluation module (EM) interface connection

The Sensor Hub BoosterPack also features the *Air Mouse* (PC HID) example application to demonstrate sensor fusion technology.

The Sensor Hub BoosterPack is supported by TivaWare™ for C Series Driver Library and is compatible with these toolchains:

- Code Composer Studio™ IDE
- Keil™ RealView®
- IAR Systems Embedded Workbench®
- Mentor Embedded Sourcery CodeBench™

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