SENSOR MAESTROS

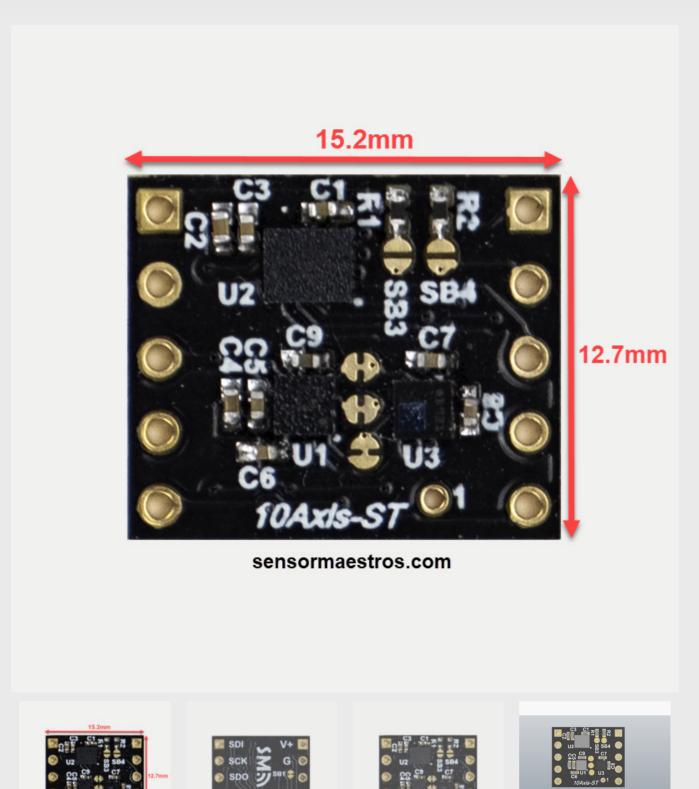Products   Design Services   Make Payment   About Us   Blog

15.2mm
12.7mm
sensormaestros.com

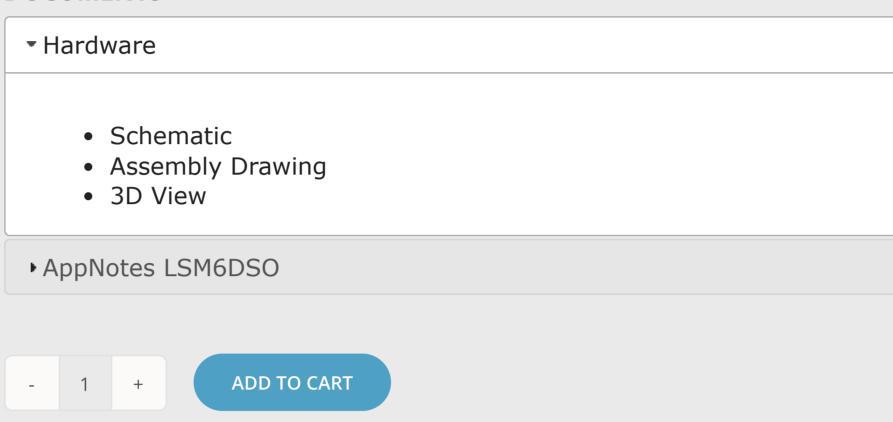## 10-DOF IMU Breakout LSM6DSO, LIS2MDL, LPS22HH

$27.95 46 in stock

smMOT-10DOF-ST : 10 DOF IMU Breakout Board with I2C and SPI Interfaces

- LSM6DSO(3-Axis Accel + 3-Axis Gyro), LIS2DML(3-Axis Mag), LPS22HH(260-1260 Absolute Pressure Sensor
- Ultra Small 15.2 x 12.7mm
- Configurable between I2C and SPI interfaces without having to remove resistors!!
  - Default = SPI to LSM6DSO
- All sensors can be controlled via single LSM6DSO interface
- **smWSP-ARD**, **smWSP** Compatible(Wireless Sensor Rapid Protyping Kits)

DOCUMENTS

▾ Hardware

- Schematic
- Assembly Drawing
- 3D View

▸ AppNotes LSM6DSO

- 1 +   **ADD TO CART**

SKU: MOT-10D-ST-SPI

Category: 10-Axis

Description   Additional information

Description

smMOTN-10DOF-ST: Micro Size Breakout Board with LSM6DSO, LIS2MDL, and LPS22HH

Accelerometer, Gyroscope, Magnetometer, and Pressure Sensor via single SPI or I2C interface

Ultra Small – 15.2 x 12.7mm Evaluation Board

SPI and I2C Interfaces

» LSM6DSO – 6 Axis ACCEL & GYROSCOPE => LSM6DSO 6-Axis Accel/Gyro Datasheet
» LIS2MDL – 3 Axis Magnetometer => LIS2DML 3-Axis Magnetometer Datasheet
» LPS22HH – Pressure Sensor => LPS22HH 260-1260 Absolute Pressure Sensor Datasheet

LSM6DSO acts as Master I2C interface to LIS2DML Magnetometer and LPS22HH Pressure Sensor.

This tiny evaluation board can provide a single SPI or I2C interface to access 3-Axis Accelerometer, 3-Axis Gyroscop, 3-Axis Accelerometer, and a Precision pressure sensor. This is able to be accomplished because the LSM6DSO can act as an I2C Master and directly interface to the LIS2MDL and LPS22HH both operating as I2C Slaves. This also provides for the ability to timestamp the LIS2MDL and LPS22HH incoming data allowing this data to be synchronized with the LSM6DSO data.

COMING SOON!!

» 9-Axis Sensor Fusion + Pressure Sensor Source Code Example with smWSP-ARD Wireless Sensor Rapid Prototyping Kit
    » smWSP-ARD Wireless Sensor Rapid Prototyping Platform
    » Python Library via USB Connection
    » BLE interface for wireless interface
» Use with Sensor Maestros SENSR-LOGR Mobile App for configuration, data-logging, 3D View
    » Sensor Maestros SENSR-LOGR Android App

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