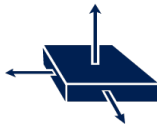
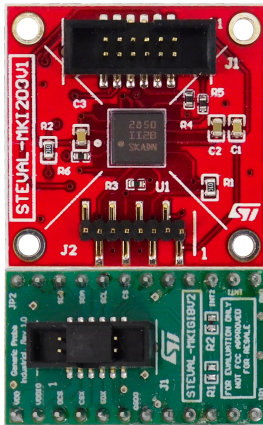


MEMS inclinometer kit based on IIS2ICLX



Features

- User friendly IIS2ICLX board
- Complete IIS2ICLX pinout for a standard DIL 24 socket
- Double-sided adhesives included for easy mounting on equipment to be measured
- Fully compatible with and STEVAL-MKI109V3 motherboard
- RoHS compliant

Description

The [STEVAL-MKI209V1K](#) evaluation board has an embedded [IIS2ICLX](#) inclinometer sensor, which is connected through flat cable to a simple adapter board ([STEVAL-MKIGIBV2](#)) to render it compatible with [STEVAL-MKI109V3](#).

The sensor is soldered precisely in the center of the board and double-sided adhesives are provided to allow users to conveniently mount the board on equipment destined for vibration analysis. Alternatively, you can mount the board using the holes located in each corner of the PCB.

The [STEVAL-MKIGIBV2](#) can be plugged into a standard DIL 24 socket. The kit provides the complete IIS2ICLX pin-out and comes ready-to-use with the required decoupling capacitors on the VDD power supply line.

This adapter is supported by the [STEVAL-MKI109V3](#) motherboard with high performance 32-bit microcontroller functioning as a bridge between the sensor and a PC, on which it is possible to use the downloadable graphical user interface (Unico GUI), or dedicated software routines for customized applications.

| Product summary | |
|---|----------------------------------|
| MEMS inclinometer kit based on IIS2ICLX | STEVAL-MKI209V1K |
| ultra-high-stability, ultra-low-noise and ultra-low-power two-axis linear accelerometer with digital output | IIS2ICLX |
| ST MEMS adapter motherboard based on STM32F401VE compatible ST MEMS adapters | STEVAL-MKI109V3 |
| Application | IoT for Smart Things |

1 Schematic diagrams

Figure 1. STEVAL-MKI209V1 board schematic

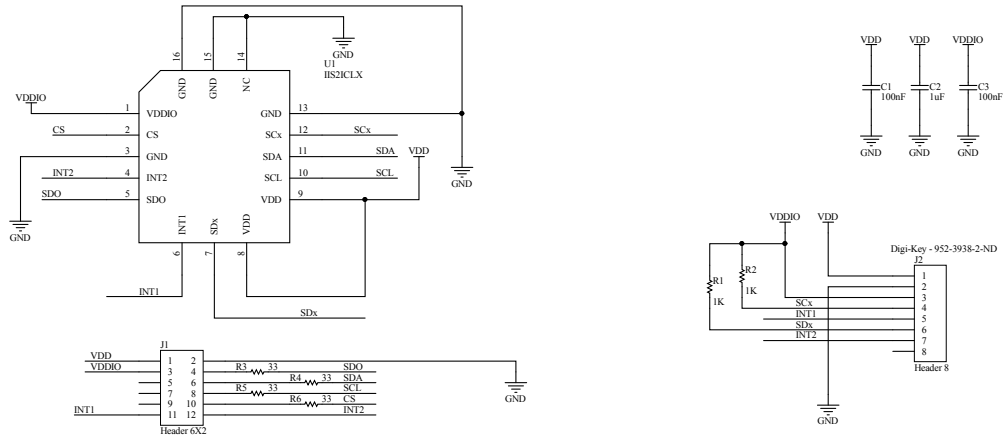
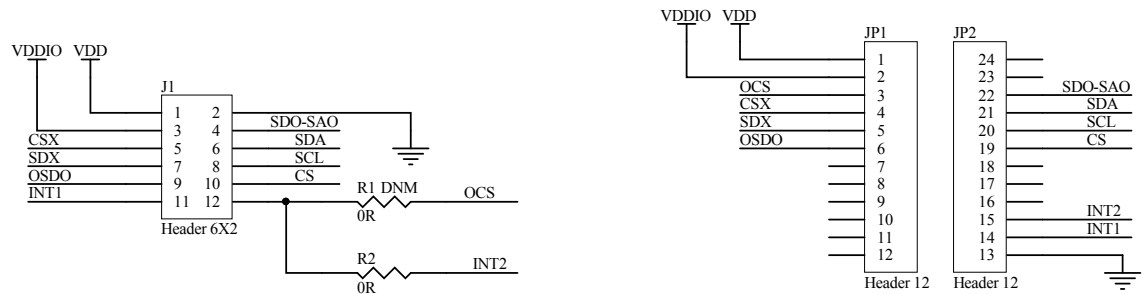


Figure 2. STEVAL-MKIGIB2V1 board schematic



Revision history

Table 1. Document revision history

| Date | Version | Changes |
|-------------|---------|------------------|
| 11-Dec-2019 | 1 | Initial release. |