KAMAMI
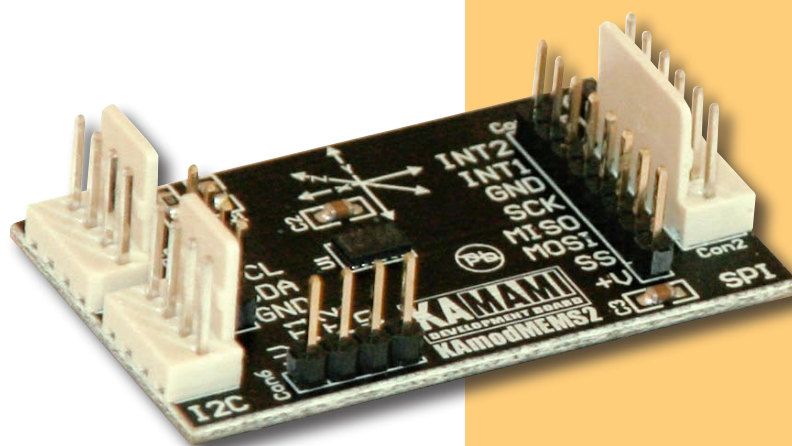
KAmodMEMS2

3-axis motion sensor module with digital output

KAmodMEMS2 is 3-axis motion sensor with SPI and I2C interfaces. Module is based on LIS35DE by STMicroelectronics.

ver. 1.0

btc

Basic features

- ▶ LIS35DE – 3-axis motion sensor
- ▶ Operating voltage from 2.16 to 3.6V
- ▶ Low power consumption (<1mW)
- ▶ I²C and SPI interfaces (Kamami standard connectors)
- ▶ Two configurable interrupt generators
- ▶ Single click, double click and free fall detection
- ▶ Embedded high pass filter
- ▶ 10000g shock survivalibility

Standard equipment

Code	Description
KAmodMEMS2	▶ Assembled module

Technical assistance

For technical assistance, please contact support@kamami.com.

Please provide the following data:
- ▶ Version of the operating system
- ▶ Microcontroller type used in your system and its oscillator frequency
- ▶ Detailed description of the problem

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05-120 Legionowo, Poland
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Schematic

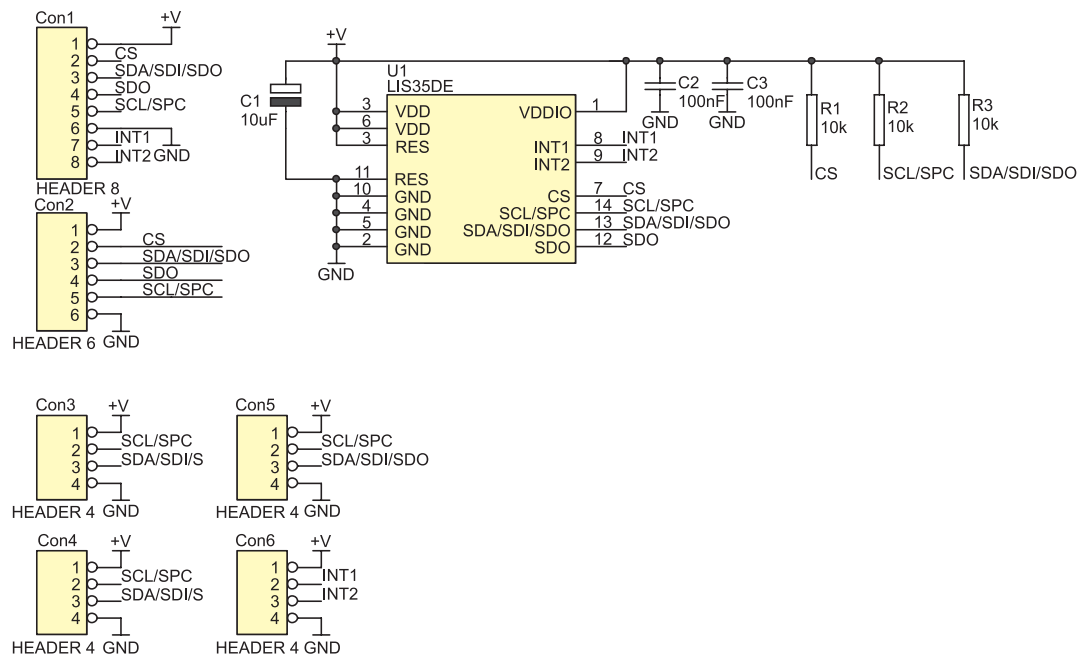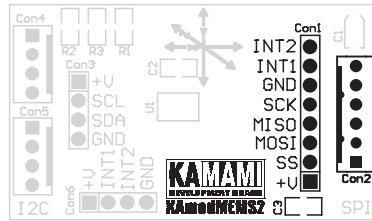# Board layout
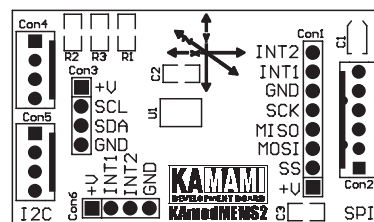
SPI connector

Con2 connector has standard Kamami SPI pin layout (compatible with CAB_HU06 cable, ZL15AVR, ZL30ARM etc.). SPI interface is available also on Con1, which additionally has interrupt generator pins (INT1, INT2).

I²C connectors

KAmodMEMS2 module is equipped with I²C interface connectors: Con3, Con4, Con5. Con4 and Con5 have standard Kamami I²Cpin layout (compatible with CAB_HU04 cable, ZL15AVR, ZL30ARM etc.). Con6 can be used to connect to interrupt generator lines while using I²C.