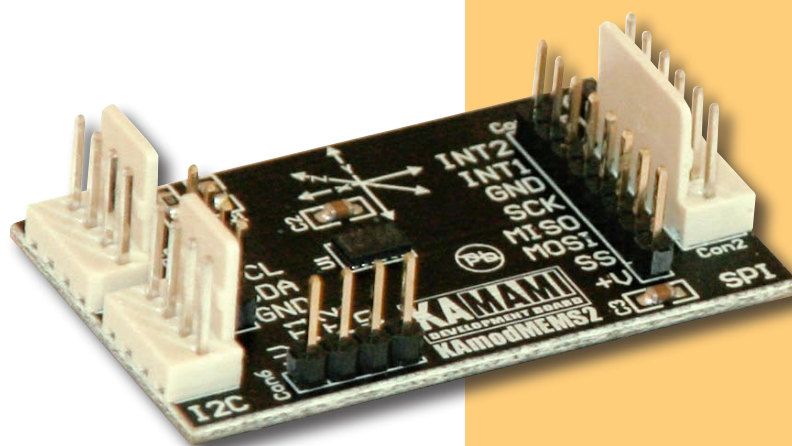


# KAmoMEMS2

**3-axis motion sensor  
module with digital output**



*KAmoMEMS2 is 3-axis motion  
sensor with SPI and I<sup>2</sup>C interfaces.*

*Module is based on LIS35DE by  
STMicroelectronics.*

## Basic features

- ▶ LIS35DE – 3-axis motion sensor
- ▶ Operating voltage from 2.16 to 3.6V
- ▶ Low power consumption (<1mW)
- ▶ I<sup>2</sup>C and SPI interfaces (Kamami standard connectors)
- ▶ Two configurable interrupt generators
- ▶ Single click, double click and free fall detection
- ▶ Embedded high pass filter
- ▶ 10000g shock survivalability

## Standard equipment

Code	Description
KAmoMEMS2	▶ Assembled module

## Technical assistance

For technical assistance, please contact [support@kamami.com](mailto: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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### Disclaimer

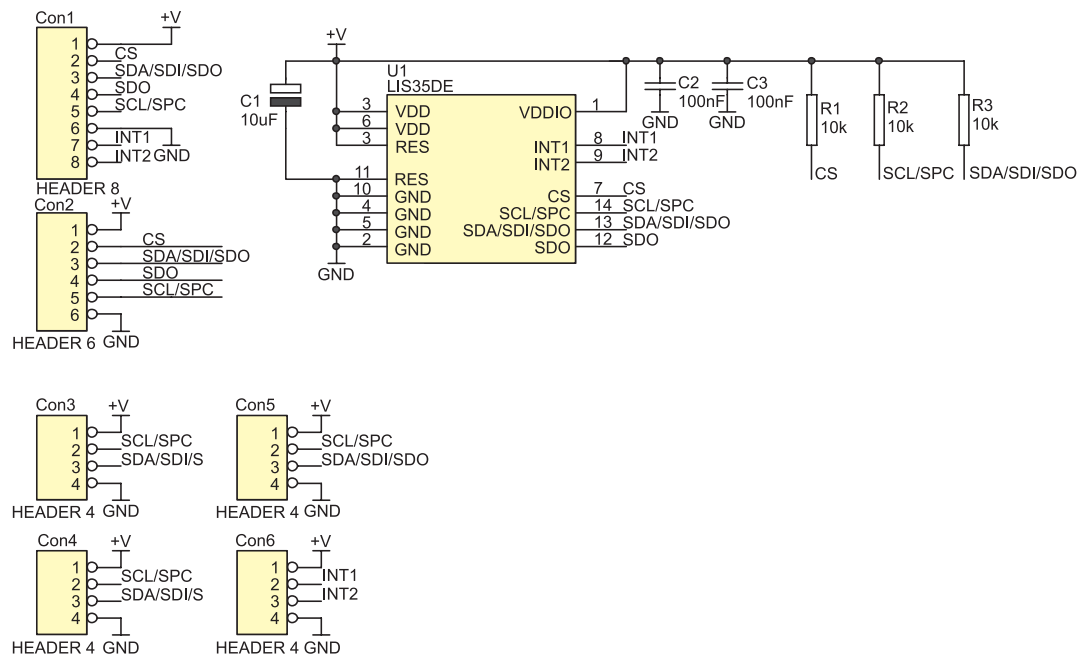
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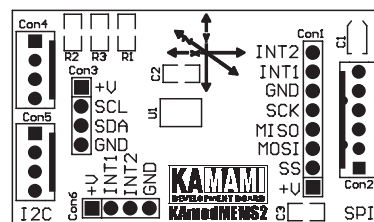
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# Schematic

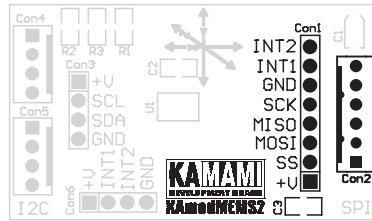


# Board layout



## 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

KAmoMEMS2 module is equipped with I2C interface connectors: Con3, Con4, Con5. Con4 and Con5 have standard Kamami I2C pin layout (compatible with CAB\_HU04 cable, ZL15AVR, ZL30ARM etc.). Con6 can be used to connect to interrupt generator lines while using I2C.

