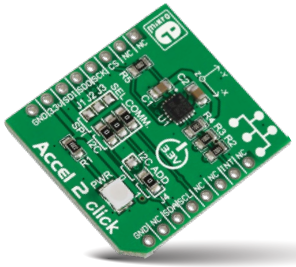
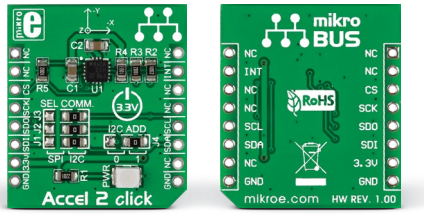


Accel 2 click



1. Introduction

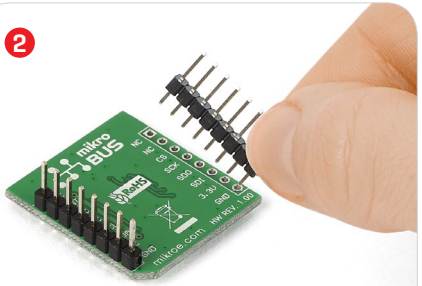
Accel 2 click carries **ST's LIS3DSH IC**, a low-power factory-calibrated three-axis accelerometer which embeds a FIFO buffer and two programmable state machines. The board communicates with the target board MCU through either SPI (CS#, SCK, SDO, SDI) or I2C (SCL, SDA) interfaces. It also has an interrupt pin (INT) which can be programmed to respond to user defined movement patterns.

2. Soldering the headers

Before using your click board™, make sure to solder 1x8 male headers to both left and right side of the board. Two 1x8 male headers are included with the board in the package.

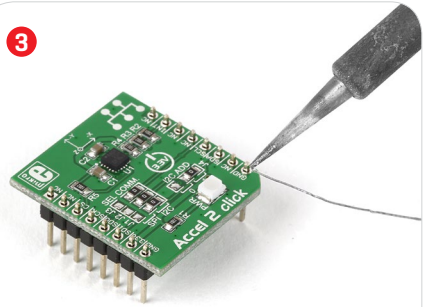
1

2

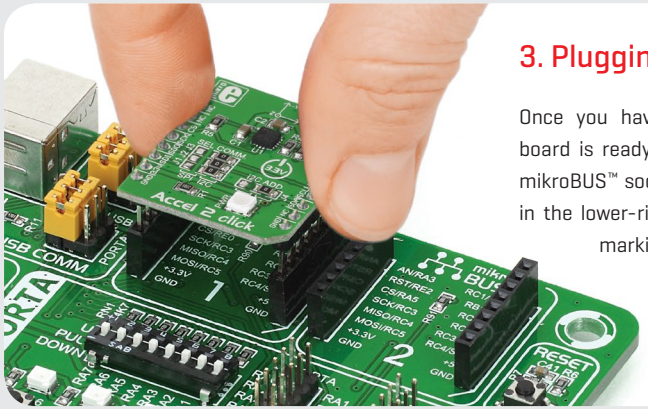


Turn the board upside down so that the bottom side is facing you upwards. Place shorter pins of the header into the appropriate soldering pads.

3

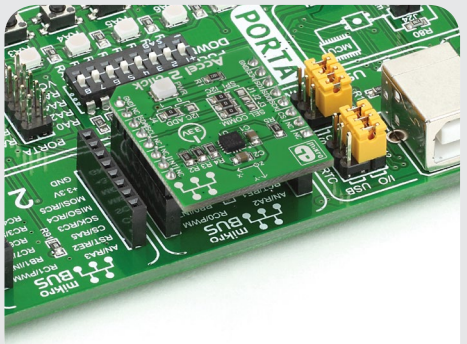


Turn the board upward again. Make sure to align the headers so that they are perpendicular to the board, then solder the pins carefully.



3. Plugging the board in

Once you have soldered the headers your board is ready to be placed into the desired mikroBUS™ socket. Make sure to align the cut in the lower-right part of the board with the markings on the silkscreen at the mikroBUS™ socket. If all the pins are aligned correctly, push the board all the way into the socket.



4. Essential features

Accel 2 click, with its embedded state machines, is especially suited for designing motion control user interfaces. It allows you to implement gesture recognition. User-defined programs can distinguish movement patterns like shake and double shake, face up and face down, turn and double turn, and activate an interrupt upon their execution. An integrated FIFO buffer, with multiple operating modes, enables you to optimize between performance and power consumption.

click BOARD™

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Accel 2 click manual
ver 1.00
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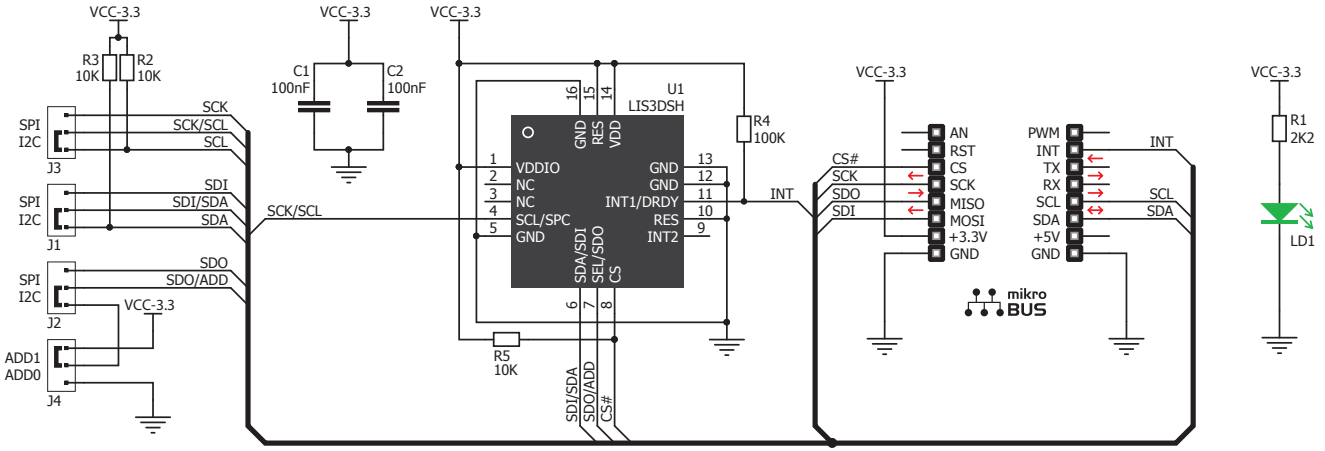
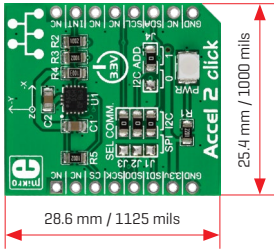
5. Schematic



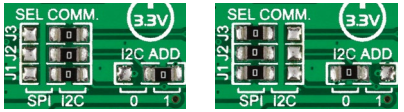
6. Dimensions



	mm	mils
LENGTH	28.6	1125
WIDTH	25.4	1000
HEIGHT*	3.3	130

* without headers

7. SMD jumpers



Accel 2 click features two sets of jumpers. The three SEL. COMM. jumpers are for switching between SPI and I²C interfaces (soldered in I²C by default). I²C ADD is for specifying the I2C address.

8. Code examples

Once you have done all the necessary preparations, it's time to get your click board™ up and running. We have provided examples for mikroC™, mikroBasic™ and mikroPascal™ compilers on our **Libstock** website. Just download them and you are ready to start.

LIBSTOCK.com

9. Support

MikroElektronika offers **free tech support (www.mikroe.com/support)** until the end of the product's lifetime, so if something goes wrong, we're ready and willing to help!

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10. Disclaimer

MikroElektronika assumes no responsibility or liability for any errors or inaccuracies that may appear in the present document. Specification and information contained in the present schematic are subject to change at any time without notice.

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