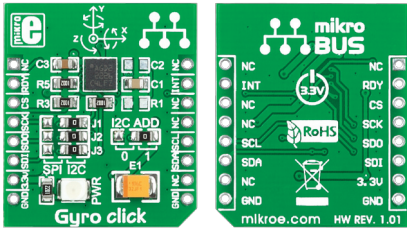


Gyro click™

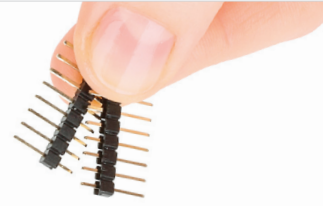
1. Introduction



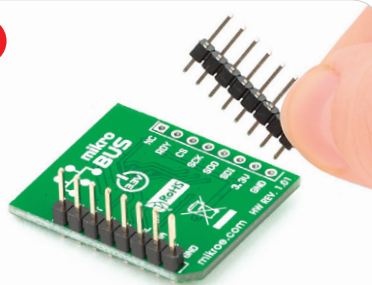
Gyro Click™ is an accessory board in **mikroBUS™** form factor. It's a compact and easy solution for adding gyroscope to your design. It features **L3GD20** three-axis digital gyroscope module. Gyro Click™ communicates with the target board microcontroller via **mikroBUS™** SPI (MOSI, MISO, SCK, CS), I²C (SDA, SCL), INT and RST lines. The board is designed to use 3.3V power supply only. LED diode (GREEN) indicates the presence of power supply.

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.

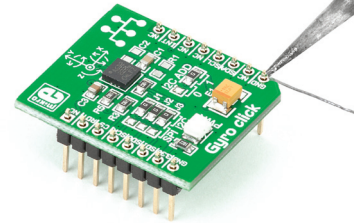


2

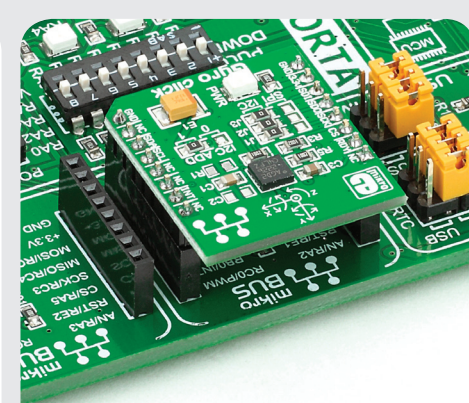


Turn the board upside down so that bottom side is facing you upwards. Place shorter parts of the header pins in both soldering pad locations.

3



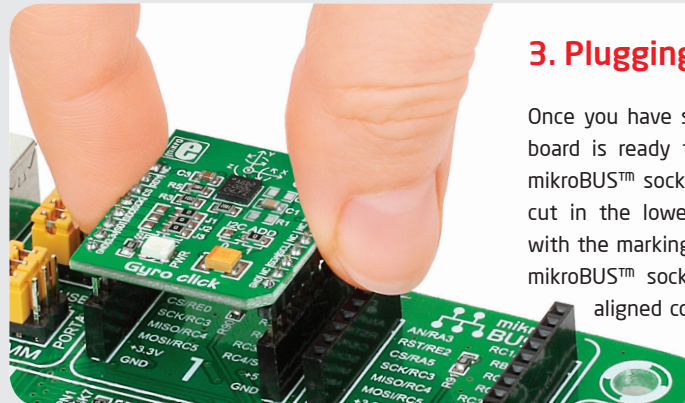
Turn the board upward again. Make sure to align the headers so that they are perpendicular to the board, then solder the pins carefully.



4. Essential features

Gyro Click™ with its **L3GD20** IC is capable of providing the measured angular rate to the external world through a digital interface (I²C, SPI). The **L3GD20** has a full scale of $\pm 250 / \pm 500 / \pm 2000$ dps and is capable of measuring rates with a user-selectable bandwidth. All these features make this board ideal for gaming and virtual reality input devices, motion control, GPS navigation systems and more.

3. Plugging the board in



Once you have soldered the headers your board is ready to be placed into 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 of the pins are aligned correctly, push the board all the way into the socket.

click™
BOARD
www.mikroe.com

Gyro click Manual
ver. 1.01



