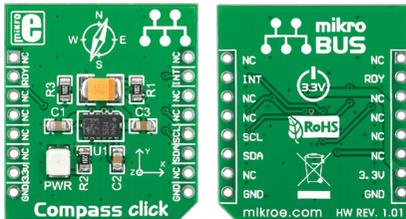


Compass click™

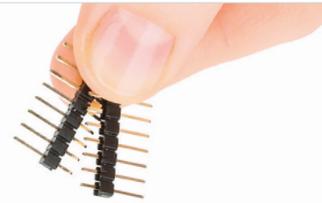
1. Introduction



Compass Click™ is an accessory board in **mikroBUS™** form factor. It's a compact and easy solution for adding compass module to your design. It features **LSM303DLHC** ultra compact high performance e-compass module. Compass Click™ communicates with the target board microcontroller via **mikroBUS™** 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.

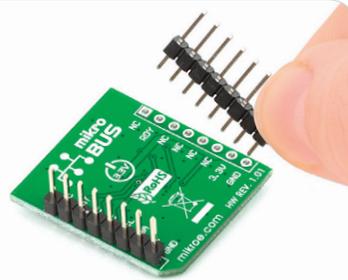
2. Soldering the headers

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.



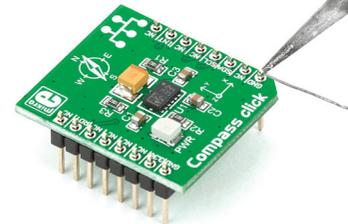
1

2



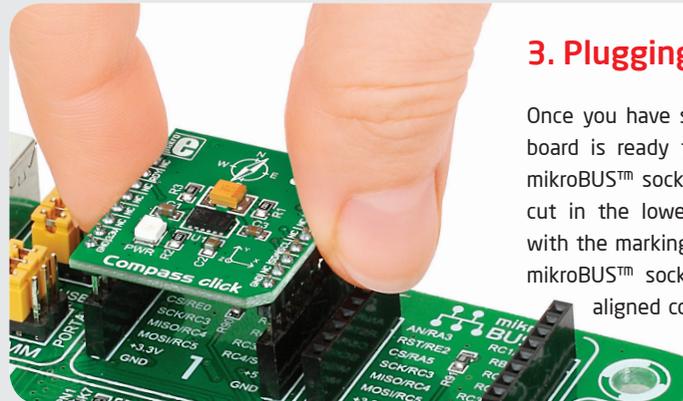
Turn the board upside down so that bottom side is facing you upwards. Place shorter parts of the header pins in both soldering pad locations.

3

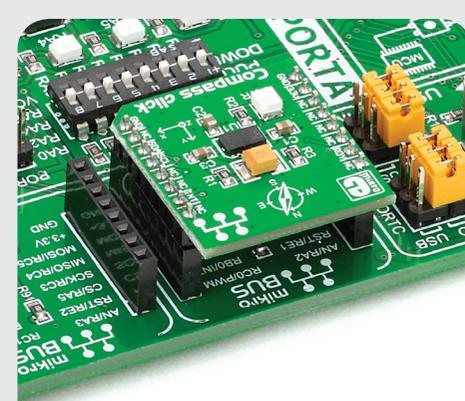


Turn the board upward again. Make sure to align the headers so that they are perpendicular to the board, then solder the pins carefully.

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.



4. Essential features

Compass Click™ with its **LSM303DLHC** IC includes specific sensing element and an IC interface capable of measuring both linear acceleration (full-scale of $\pm 2g/\pm 4g/\pm 8g/\pm 16g$) and magnetic field (From ± 1.3 to ± 8.1 gauss full-scale) and to provide a 16-bit data output through I²C interface. All these features make this board ideal for compensated compass, position detection, display orientation and many more.

click™
BOARD
www.mikroe.com



Compass click Manual
ver. 1.01



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