



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



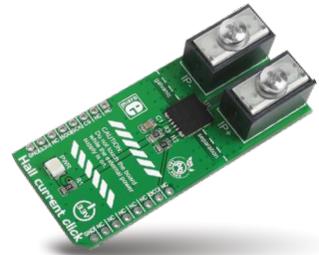
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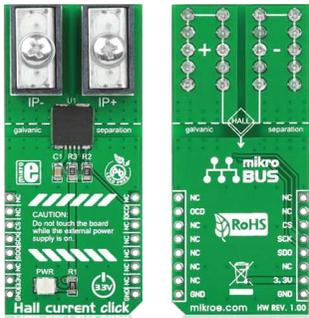
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Hall current click™

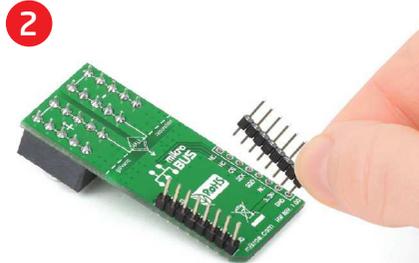
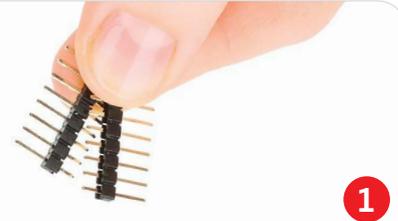
1. Introduction



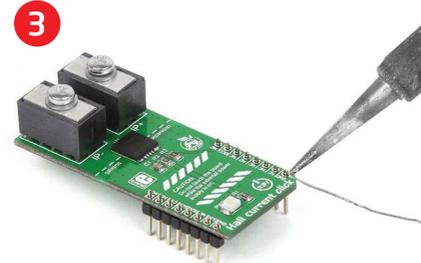
Hall current click™ is a high precision current sensor. It carries a galvanically isolated TL14970-D050T4 miniature magnetic digital current sensor that utilizes the Hall effect to measure electric current. The board carries two EXtreme ZPower connectors to connect the conductor. The sensor readings are sent to the target board through the mikroBUS™ SPI (SDO, SCK, and CS) lines. The board uses a 3.3V power supply only.

2. Soldering the headers

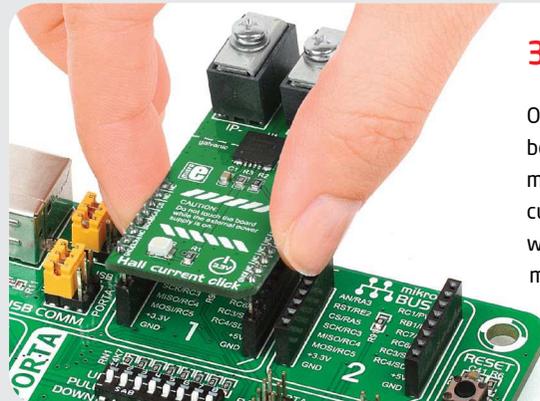
Before using your click™ board, make sure to solder 1x8 male headers to both left and right side of the board. Two 1x8 male headers are included with the board in the package.



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.

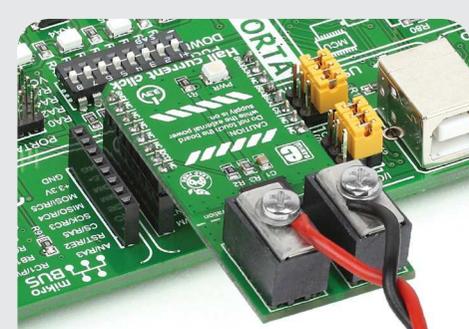


Turn the board upward again. Make sure to align the headers so that they are perpendicular to the board, then solder the pins carefully.



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

Hall current click™ is a contact-free current measurement device. To measure the current, connect the conductor to two ZPower connectors (IP- and IP+). The current rail is galvanically isolated from the interface to the microcontroller keeping the surrounding circuitry safe. The signal has a 16-bit internal resolution. Hall click is perfectly suited for systems with high efficiency because the contact-free measurement principle causes no additional power loss. Consult the TL14970-D050T4 IC data-sheet for more information.



Hall current click Manual
ver. 1.00a



