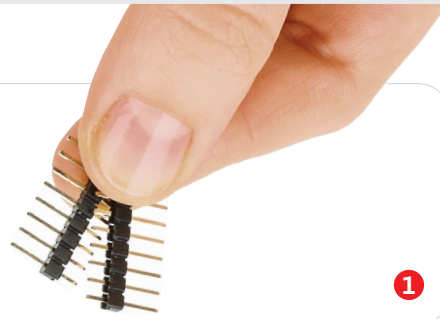




## ETH WIZ click™

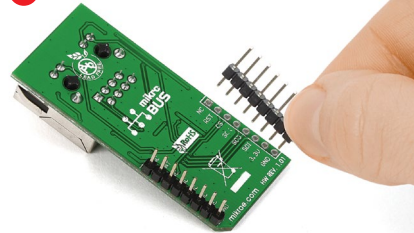
### 2. Soldering the headers

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.



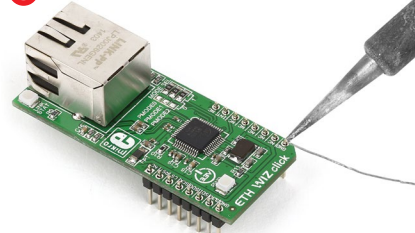
1

2

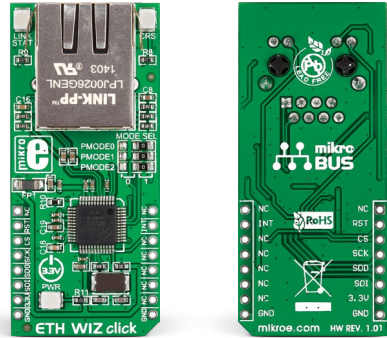


Turn the board upside down so that the bottom side is facing you upwards. Place shorter pins of the header into the appropriate soldering pads.

3

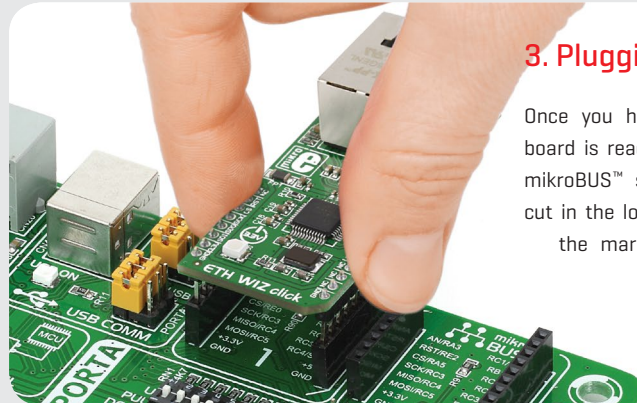


Turn the board upward again. Make sure to align the headers so that they are perpendicular to the board, then solder the pins carefully.



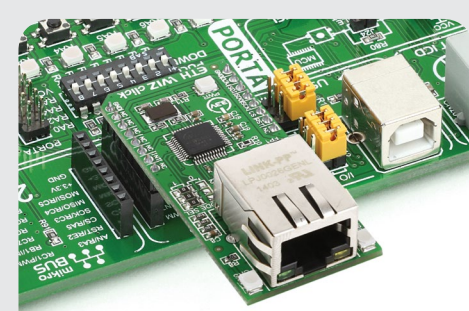
### 1. Introduction

ETH WIZ click™ carries **W5500**, a 48-pin, 10/100 BASE-TX standalone Ethernet controller with a hardwired TCP/IP Internet protocol offload engine, along with a standard **RJ-45 connector**. Wiznet's W5500 module supports TCP, UDP, IPv4, ICMP, ARP, IGMP, and PPPoE protocols. ETH WIZ click™ communicates with the target board MCU through mikroBUS™ RSTn, SCSn, SCLK, MISO, MOSI and INTn lines. The board uses a 3.3V power supply only.



### 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

The **W5500** module onboard ETH WIZ click™ employs a variety of solutions to reduce the target MCU's memory load and enable a stable and secure Internet connection. High speed network communications are realized through a **80 MHz SPI** interface. The module has **32KB of internal memory** for TX/RX buffers. Reduced power consumption is achieved with **Wake on LAN and power down modes**. Automatic handshaking, retransmit on collision and automatic rejection of erroneous packets are also supported. The board is ideal for Home network devices and all sorts of embedded servers.

click™  
BOARD  
[www.mikroe.com](http://www.mikroe.com)



ETH WIZ click™ manual  
ver 1.01



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