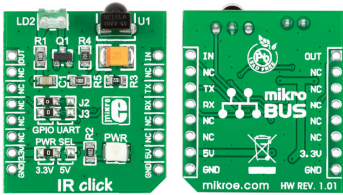


IR click™

### 1. Introduction



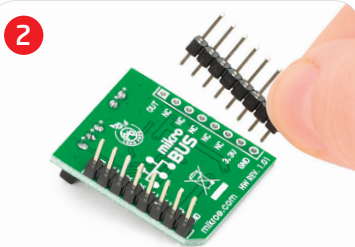
IR Click™ is an add-on board in mikroBUS™ form factor. It's a compact and easy solution for adding infrared (IR) module to your design. It features **TSOP38338** IR receiver module as well as **QEE113** IR emitting diode. IR Click™ communicates with the target board microcontroller via mikroBUS™ UART (Tx, Rx), AN, and PWM lines. The board is designed to use 3.3V and 5V power supply. 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.

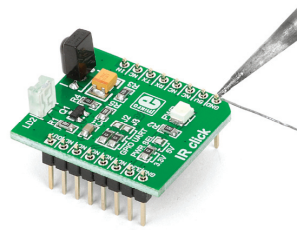


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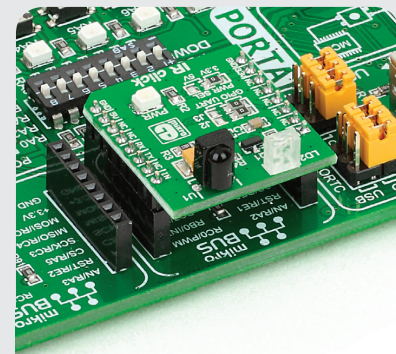


Turn the board upside down so that bottom side is facing you upwards. Place shorter parts of the header pins in both soldering pad locations.

3



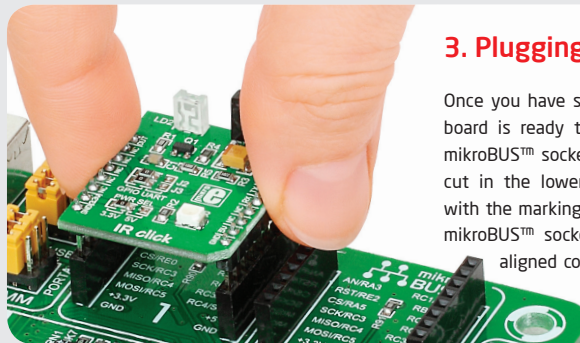
Turn the board upward again. Make sure to align the headers so that they are perpendicular to the board, then solder the pins carefully.



### 4. Essential features

IR Click™ with its **TSOP38338** and **QEE113** IC's is an easy and compact solution for infrared remote control communication protocol. The **TSOP38338** - 38 kHz (carrier frequency) receiver is recommended for RCMM, NEC, RC5, RC6, r-step and XMP codes. It is not sensitive to supply voltage ripple and noisy environments. It has improved immunity against ambient light and shielding against EMI.

### 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

IR click Manual  
ver. 1.01



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