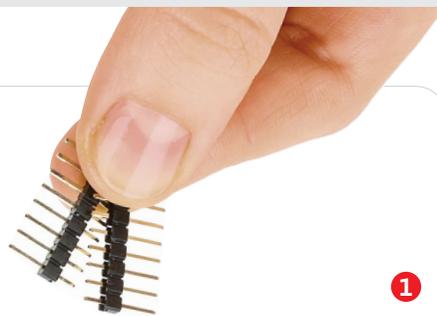




## PWM click

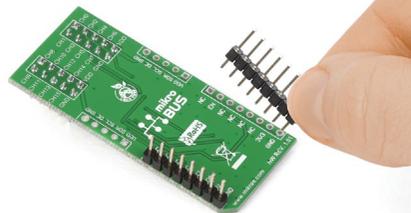
### 2. Soldering the headers

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.



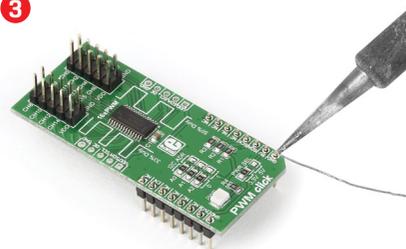
1

2

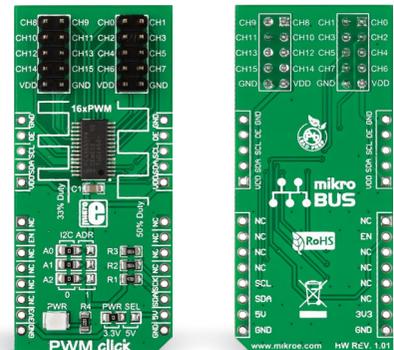


Turn the board upside down so that the bottom side is facing you upwards. Place shorter pins of the header into the appropriate soldering pads.

3

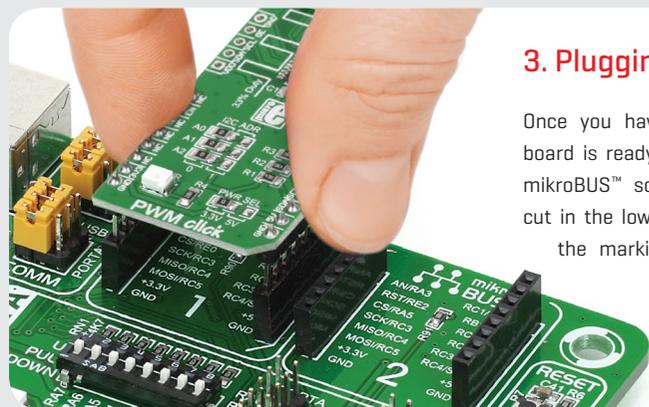


Turn the board upward again. Make sure to align the headers so that they are perpendicular to the board, then solder the pins carefully.



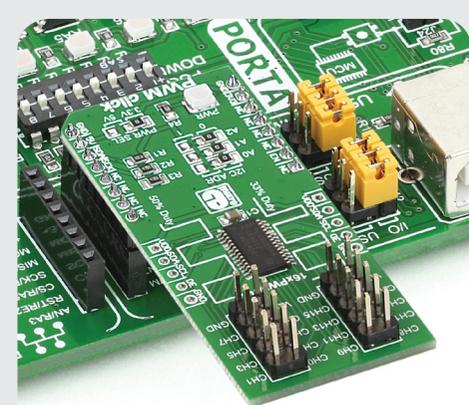
### 1. Introduction

PWM click is a simple solution for controlling **16 PWM outputs** through a single I<sup>2</sup>C interface. The click board™ carries the **PCA9685PW IC**. In addition to mikroBUS™ I<sup>2</sup>C pins [SCL, SDA], the board also uses a LOW Output Enable Input pin [OE], which is in place of the default mikroBUS™ RST pin. PWM click is designed to use either a 3.3V or 5V power supply.



### 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

PWM click can be used to control anything from a LED strip, set of servo motors, to a complex robot with a multitude of moving parts. The board has an additional set of pins that allow you to connect up to seven PWM clicks together (using three jumpers to specify a different I<sup>2</sup>C address for each one). This way, you can get a total of 112 PWM outputs on a single I<sup>2</sup>C line!

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



PWM click manual  
ver 1.01





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