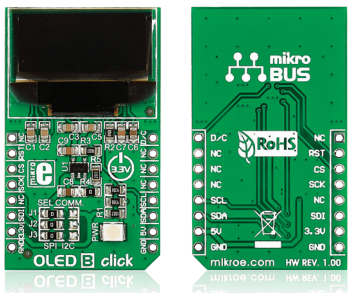


## OLED B click™

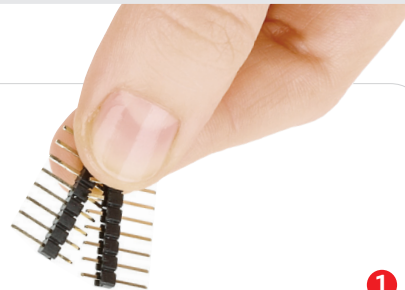
### 1. Introduction



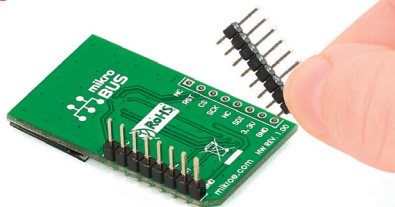
OLED B click™ lets you add a small but bright and crisp display to your design. It carries a blue monochrome passive matrix OLED display and a **SSD1306** IC to control it. OLED B click™ can communicate with the target board either through SPI or I<sup>2</sup>C interfaces. **mikroBUS™** lines used for SPI are CS, SCK, and MOSI (SDI); I<sup>2</sup>C output uses SCL and SDA lines; also, both modes use PWM (A/C) and RST lines. You select between SPI and I<sup>2</sup>C outputs by resoldering three jumpers. OLED B click™ uses a 3.3V 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.

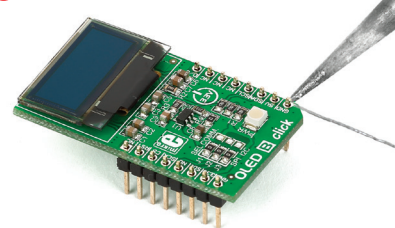


2



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.

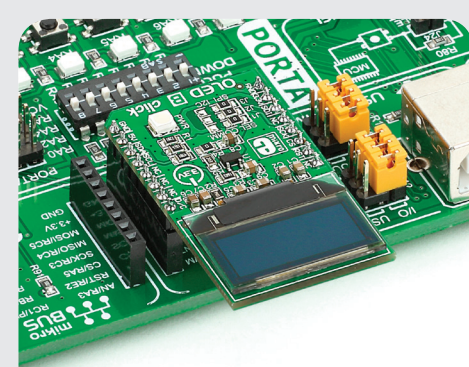
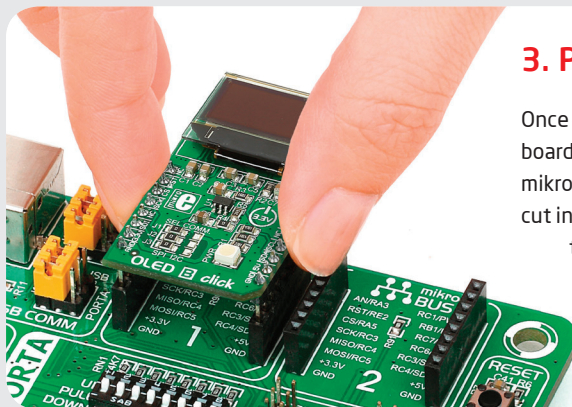
3



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

### 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

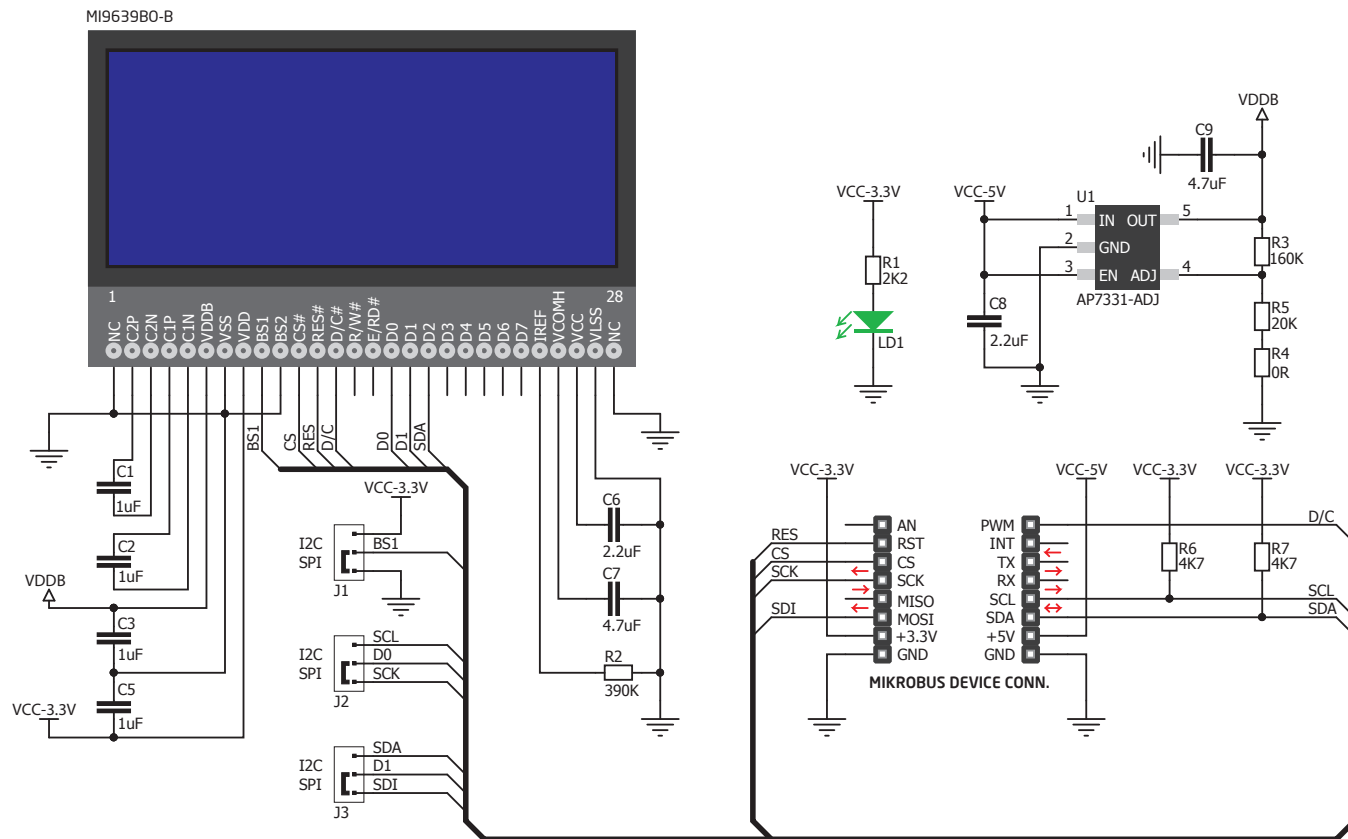
OLED displays are made from a thin film of organic compound that emits light when exposed to a current. Small monochrome displays like these are ideal for displaying text or icons. They are bright, have a wide viewing angle and low power consumption. The display on OLED B click™ is 19.3 x 7.8mm with a 96 x 39px resolution. The SSD1306 controller has built-in functionalities like contrast control, normal or inverse image display, vertical and horizontal scrolling functions and many more.

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

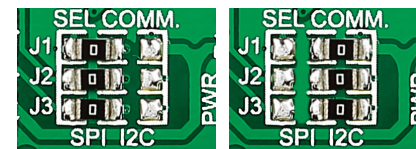
OLED B click Manual v100



## 5. OLED B click™ board schematic



## 6. Interface selection



To switch from SPI to I<sup>2</sup>C output on OLED B click, resolder all three onboard jumpers (**J1**, **J2** and **J3**) to the I<sup>2</sup>C position.

## 7. Code examples

Once you have done all the necessary preparations, it's time to get your click™ board up and running. We have provided examples for mikroC™, mikroBasic™ and mikroPascal™ compilers on our **Libstock** website. Just download them and you are ready to start.



## 8. Support

MikroElektronika offers **free tech support** ([www.mikroe.com/support](http://www.mikroe.com/support)) until the end of the product's lifetime, so if something goes wrong, we're ready and willing to help!

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