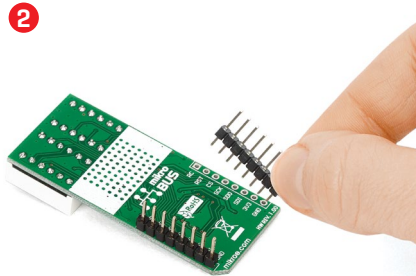
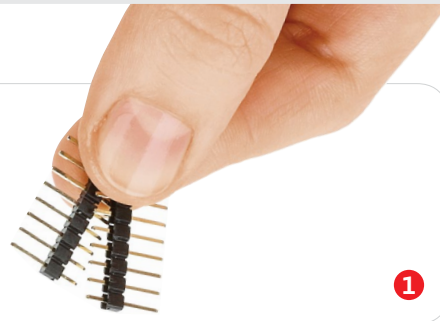


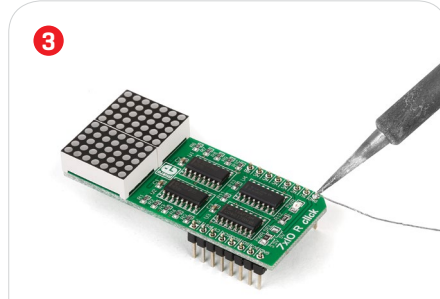
7x10 R click

2. Soldering the headers

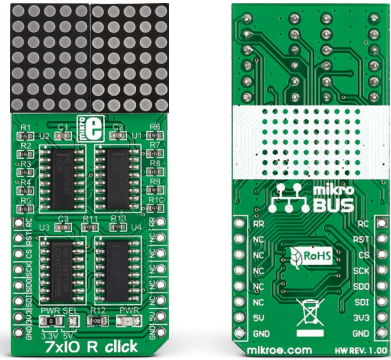
Before using your click board™, make sure to solder 1x8 male headers to both left and right side of the board. Two 1x8 male headers are included with the board in the package.



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.

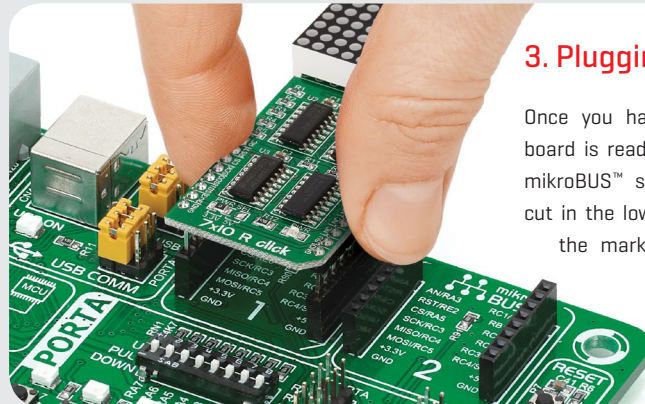


Turn the board upward again. Make sure to align the headers so that they are perpendicular to the board, then solder the pins carefully.



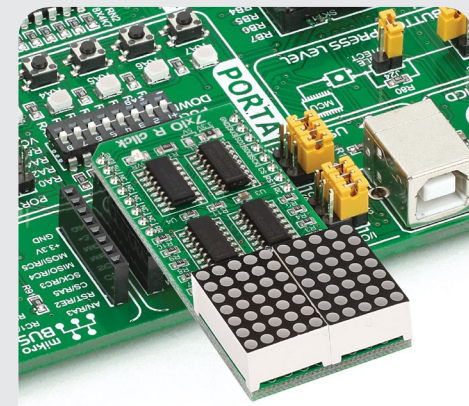
1. Introduction

7x10 R click carries a matrix of **70 red LEDs driven by a pair of 8-bit serial-in, parallel-out shift registers**, a Darlington Transistor array and a Johnson counter. The click communicates with the target MCU through the mikroBUS™ SPI interface (SCK, SDO, SDI), with additional functionality provided by R CLK, MR#, LATCH and R RST pins. 7x10 R click is designed to use either a 3.3V or a 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

7x5 is a standard resolution for displaying ASCII characters, so 7x10 click is essentially a dual-character display capable of showing letters in more readable typefaces compared to a 14-segment display. The dot matrix can also show scrolling text, thus fitting longer messages in small space. The pair of 8-bit SIPO shift registers drive the display. The current amplification necessary for driving the LEDs is performed by a Darlington Transistor array while a Johnson counter performs the necessary LED multiplex.

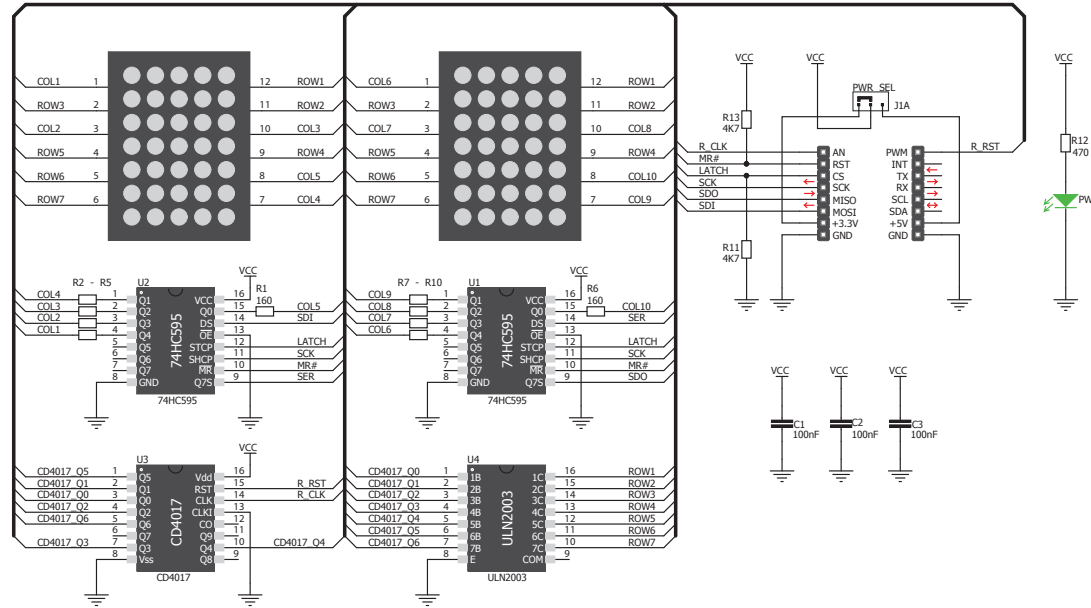
click
BOARDS™
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7x10 R click Manual v101

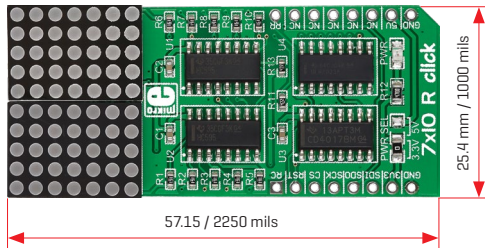
010000088975



5. Schematic



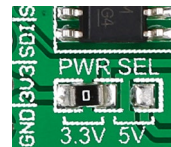
6. Dimensions



	mm	mils
LENGTH	57.15	2250
WIDTH	25.4	1000
HEIGHT*	5.33	210

* without headers

7. SMD jumper



7x10 R click features an SMD jumper [zero ohm resistor] that let's you switch between a 3.3V or a 5V power supply.

8. 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.



9. Support

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



10. Disclaimer

MikroElektronika assumes no responsibility or liability for any errors or inaccuracies that may appear in the present document. Specification and information contained in the present schematic are subject to change at any time without notice.

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