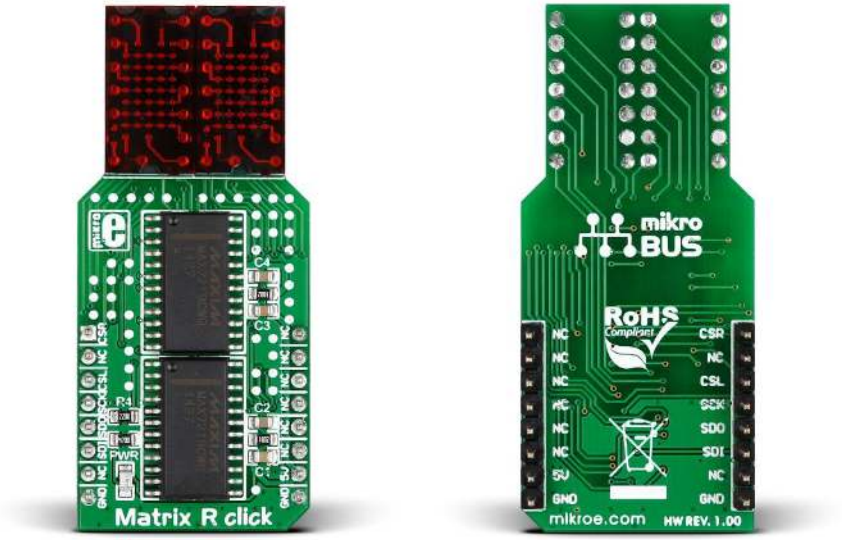

Matrix R click

PID: MIKROE-2245
Weight: 30 g

Matrix R click is a mikroBUS add-on board with two red 5x7 matrices driven by two MAX7219 8-bit LED Display Drivers. The active area of each matrix is 7.62mm high and 5.08 mm wide. 7x5 is a standard resolution for displaying ASCII characters, so the click is essentially a dual-character display capable of showing letters in more readable typefaces compared to a 14-segment display. The click communicates with the target MCU through the mikroBUS:tm: SPI interface with two separate Chip Select lines for each matrix (CSL for the left, CSR for the right). This board is designed to use a 5V power supply.

Downloads

Matrix R click Examples

Matrix R click Schematic

Type	LED Matrix
Applications	Compact 7x5 dot matrix text display for user interfaces, for example on vending machines
On-board modules	Two MAX7219
Key Features	A pair of 7x5 LED matrices, 2x MAX7219 8-digit LED Display drivers
Key Benefits	Displays letters in readable format, Scrolling text capacity
Interface	SPI,GPIO
Input Voltage	5V,5V
Compatibility	mikroBUS
Click board size	L (57.15 x 25.4 mm)

Features and usage notes

The 7x5 LED matrix is a standard resolution for displaying ASCII characters. Matrix click is essentially a dual-character display capable of showing letters in more readable typefaces compared to a 14-segment display.

If you double up on a board with two adjacent mikroBUS sockets, such as clicker 2 or Flip & click, you will get four characters.

The possibility to horizontally scroll the text makes for a virtually unlimited space for displaying written information.

Programming

The possibility to horizontally scroll the text makes for a virtually unlimited space for displaying written information.

```
1 void main()
2 {
3   system_init();
4   matrix_init();
5   matrix_text_blink( "MIKROELEKTRONIKA", MATRIX_MED_FAST );
6   Delay_ms( 1000 );}
```

Code examples that demonstrate the usage of Matrix clicks with MikroElektronika hardware, written for mikroC for ARM, AVR, dsPIC, FT90x, PIC and PIC32 are available on Libstock.