Matrix click

From MikroElektonika Documentation

Matrix click is a mikroBUS[™] add-on board with two red or green (there are two options) 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 7x10 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[™] 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.

Features and usage notes



virtually unlimited space for displaying written information.

Programming

The code snippet results in blinking two by two letters of string provided as a first parameter.

```
l 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 (http://libstock.mikroe.com/projects/view/1852/matrix-click).

Resources

- Data sheet for LED drivers (https://www.maximintegrated.com/en/datasheet/index.mvp/id/1339)

- LTP-305HR LED matrix data sheet (http://optoelectronics.liteon.com/upload/download/DS-30-97-087/S_110_LTP-305HR.pdf)

- mikroBUS standard specifications (http://www.mikroe.com/downloads/get/1737/mikrobus_specification.pdf)

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