

Serial 7-Seg Display™

Manual

All Mikroelektronika's development systems feature a large number of peripheral modules expanding microcontroller's range of application and making the process of program testing easier. In addition to these modules, it is also possible to use numerous additional modules linked to the development system through the I/O port connectors. Some of these additional modules can operate as stand-alone devices without being connected to the microcontroller.

Additional Board

 **MikroElektronika**

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Serial 7-Seg Display Additional Board

The *Serial 7-Seg Display* additional board is used to display digits on seven-segment displays. Communication between the additional board and a microcontroller is performed via a Serial Peripheral Interface (SPI), whereas four 7-segment displays on the additional board are used to display digits.

How to connect the board?

The additional board is connected to a development system via an IDC10 connector on the board and a 2x5 connector on one of the development system's ports. It is necessary to define in the program, to be loaded into the microcontroller, which port will be used for SPI communication.

The position of SMD jumpers depends on the development system in use, Figure 3. These jumpers are placed in the position marked PIC by default. It means that the board is ready to be used with PIC development systems. If you want to use it with AVR/8051 development systems, it is necessary to unsolder jumpers from the PIC position and resolder them in the AVR/8051 position.

The Serial 7-Seg Display additional board is powered with the 5V power supply from the development system it is connected to.

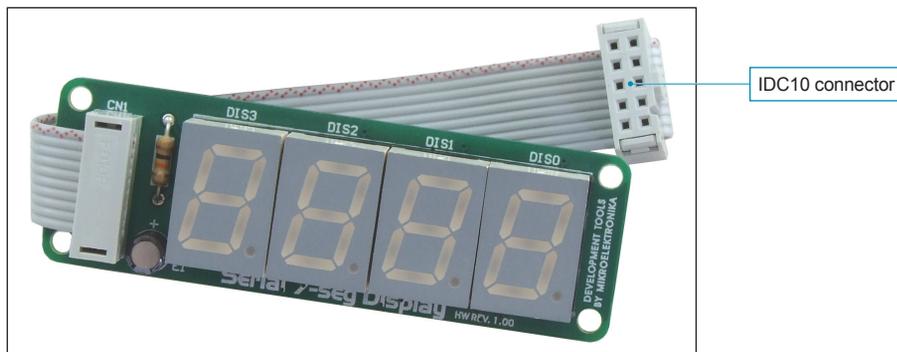


Figure 1: Serial 7-Seg Display additional board

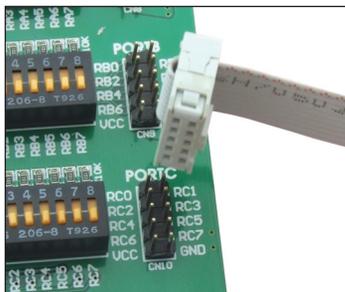


Figure 2: Connecting IDC10 connector

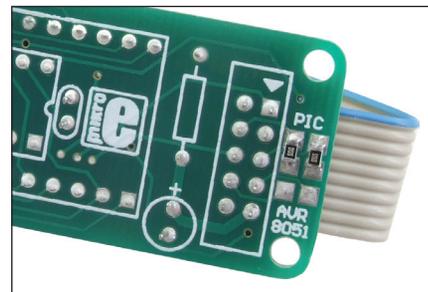


Figure 3: Development system selection

How does the board operate?

In order to use this additional board, it is necessary to load a .hex code into the microcontroller on the development system. Find examples of .hex code that may be loaded into the microcontroller on our web site:

<http://www.mikroe.com/eng/products/view/162/serial-7-seg-display-board/>

As a result of the .hex code loading, the development system starts communication with the additional board via a Serial Peripheral Interface (SPI).

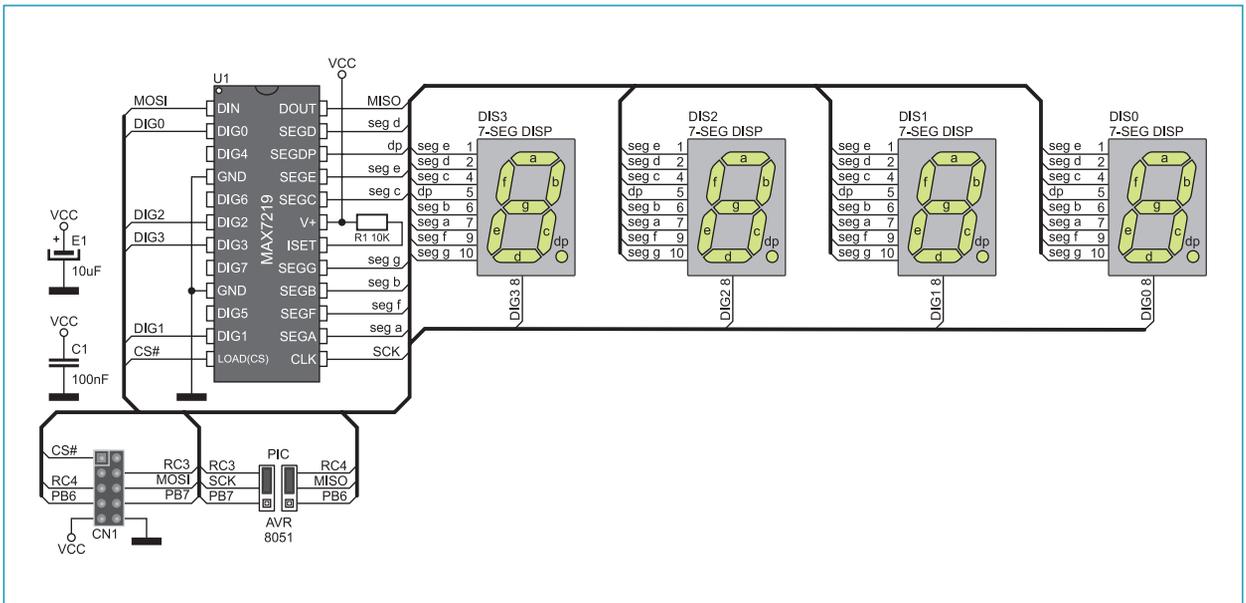


Figure 6: Serial 7-Seg Display additional board connection schematic

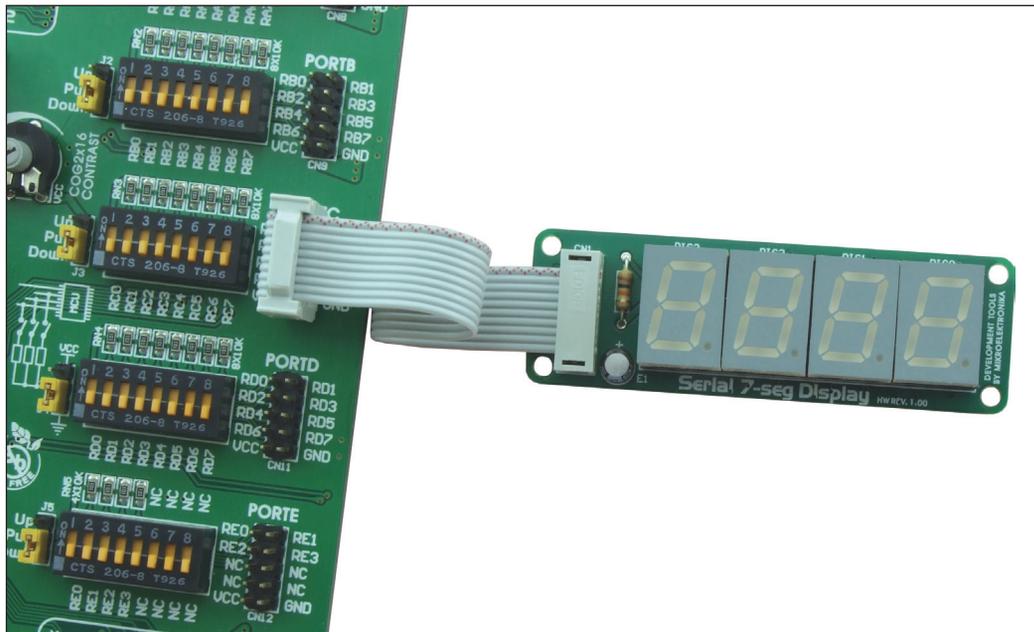


Figure 7: Serial 7-Seg Display additional board connected to a development system



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