Serial LCD/GLCD Adapter™

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 LCD/GLCD Adapter Additional Board

The *Serial LCD/GLCD Adapter* additional board is used to connect a 128x64 GLCD display to a development system. Communication with development systems is performed via a Serial Peripheral Interface (SPI). The aditional board is connected to a development system via an IDC10 connector on the flat cable, whereas an on-board 1x20 male connector is used to connect an LCD or a GLCD display. Depending on the display in use, it is necessary to place jumper J1 in the appropriate position. When an LCD display is connected to the board, jumper J1 should be set to the CHAR position. In case a GLCD display is connected, jumper J1 should be placed in the GRAPH position. Potentiometer P1 is used for LCD/GLCD display contrast adjustment. The additional board is configured for PIC development systems by default. In case some other development systems are used, such as AVR or 8051, it is necessary to unsolder jumpers from the PIC position and resolder them in the AVR/8051 position.

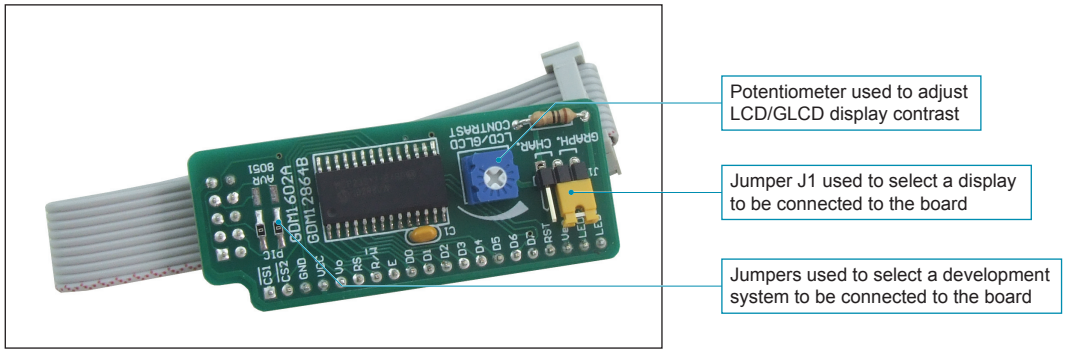

Figure 1: *Serial LCD/GLCD Adapter* additional board

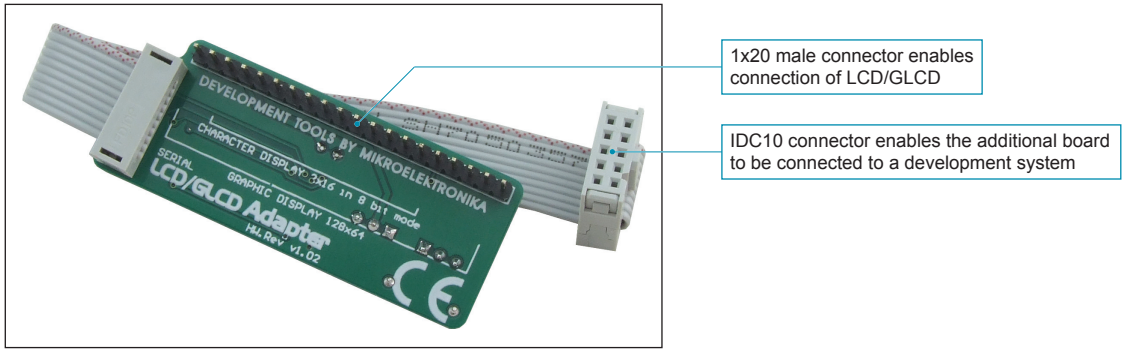

Figure 2: Back of the *Serial LCD/GLCD Adapter* additional board

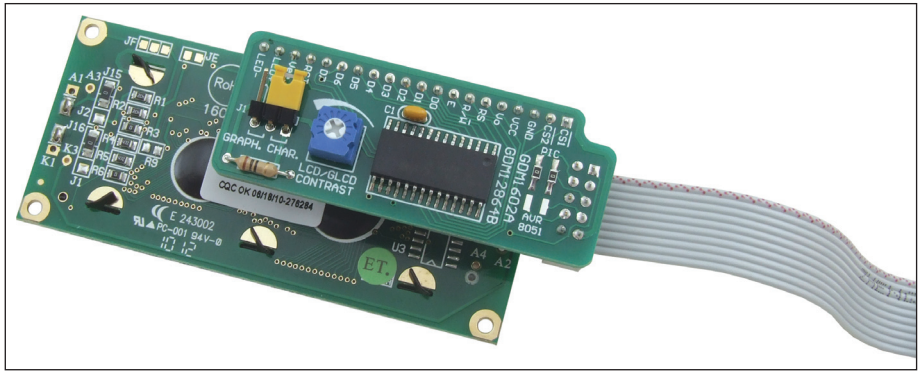

Figure 3: *Serial LCD/GLCD Adapter* additional board with a 2x16 LCD (jumper J1 in CHAR position)

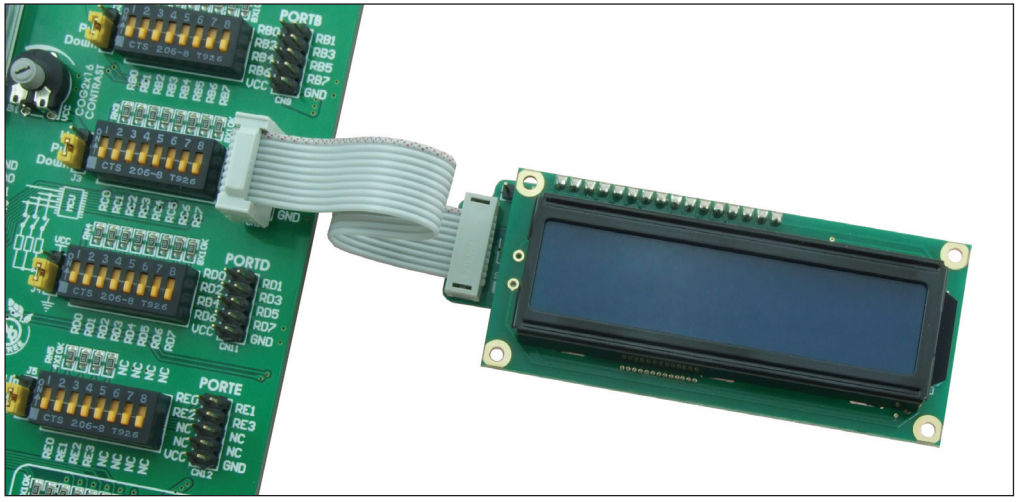

Figure 4: *Serial LCD/GLCD Adapter* additional board with a 2x16 LCD connected to a development system

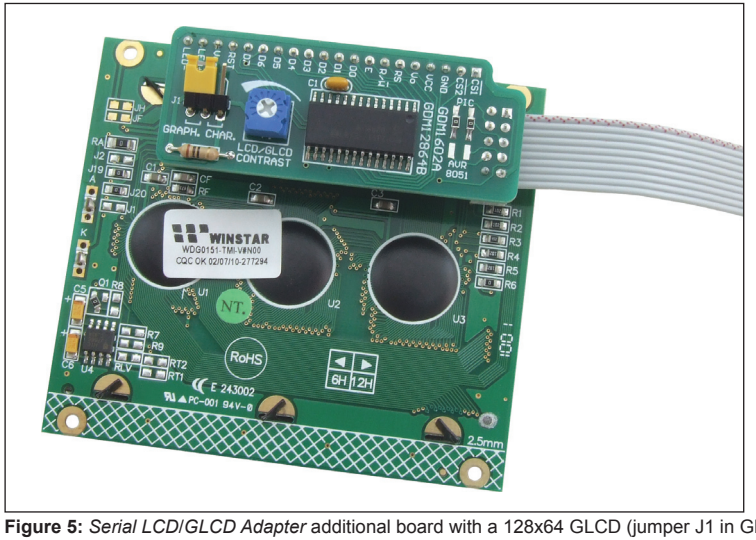

Figure 5: *Serial LCD/GLCD Adapter* additional board with a 128x64 GLCD (jumper J1 in GRAPH position)

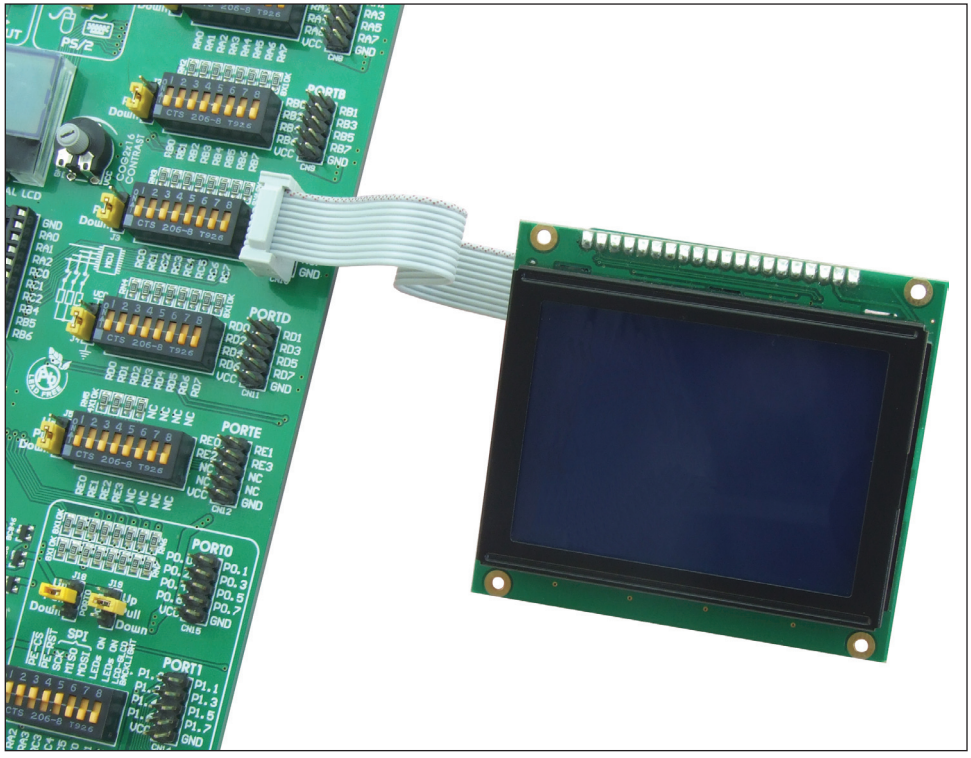

Figure 6: *Serial LCD/GLCD Adapter* additional board with a 128x64 GLCD connected to a development system

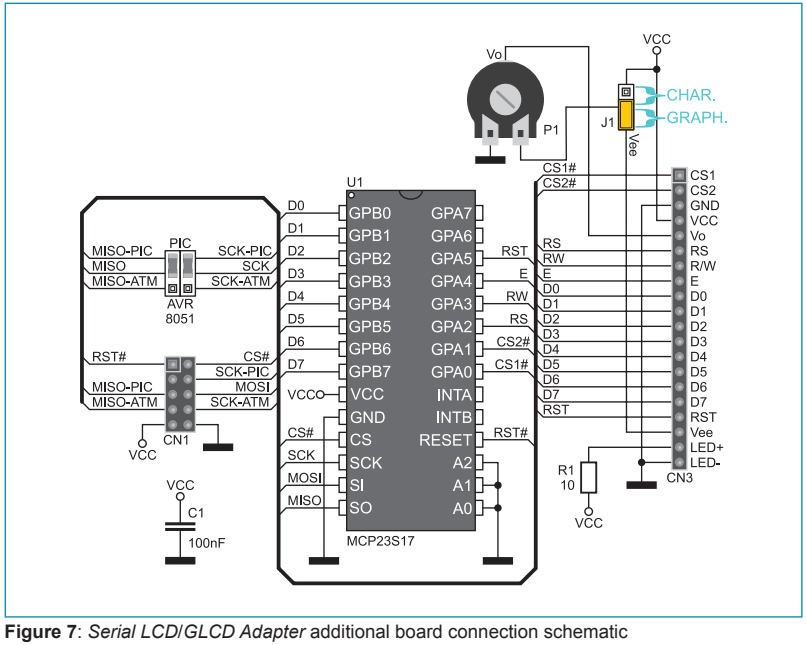

Figure 7: *Serial LCD/GLCD Adapter* additional board connection schematic

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