

MMC/SD PROTO™

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



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MMC/SD PROTO Additional Board

A MultiMedia Card (MMC) is a memory card manufactured in Flash technology. The standard size of these cards is $24 \times 32 \times 1.4$ mm. MMC cards have been superseded by Secure Digital Cards (SD cards) lately, but they are still very popular and widely used because they can be utilized with most devices that support SD cards.

Both types of cards are used as memory data storage in portable devices such as cameras, digital audio players, cellular phones, etc. Most modern computers are supplied with an SD slot that can also read MMC cards. The MMC/SD PROTO additional board enables data read/write between a 3.3V microcontroller and MMC/SD cards. Data transfer is performed via a standard Serial Peripheral Interface (SPI). The additional board is connected to a microcontroller via a built-in 8-pin connector and PROTO board, by soldering wires to this connector or by using the appropriate female connector and a flat cable.



Figure 1: MMC/SD PROTO additional board

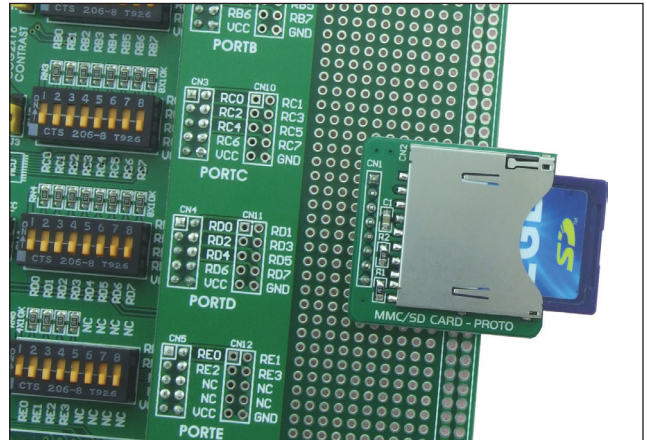


Figure 2: MMC/SD PROTO additional board is connected to a development system via a PROTO board

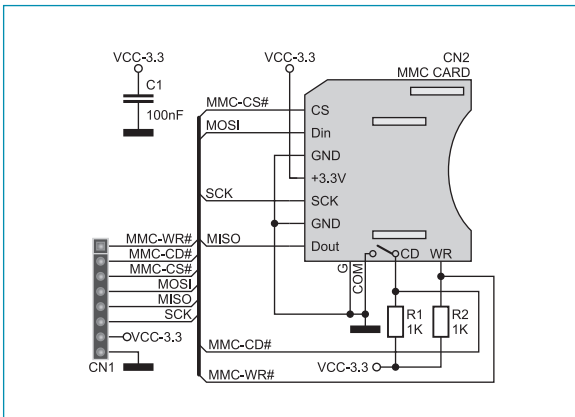


Figure 3: MMC/SD PROTO additional board connection schematic