

# MMC/SD™

## 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 Additional Board

A MultiMedia Card (MMC) is a memory card manufactured in Flash technology. The standard size of these cards is 24×32×1.4 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 MMC cards have been superseded by Secure Digital Cards (SD cards) lately, but they are still very popular and widely used because they can be utilized with most devices that support SD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 MMC/SD slot that can read both MMC and SD cards. The *MMC/SD* additional board enables data read/write between a microcontroller and MMC/SD cards. Data transfer is performed via a standard Serial Peripheral Interface (SPI). Due to built-in voltage level converters, such as 74LVCC3245, these cards may be used both with 3.3V and 5V microcontrollers. The position of jumper J1 depends on the power supply voltage level. The *MMC/SD* additional board is connected to Mikroelektronika's development systems via a standard IDC10 connector.

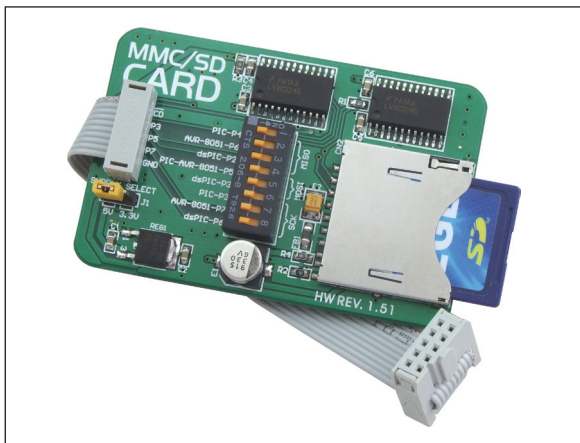


Figure 1: MMC/SD additional board

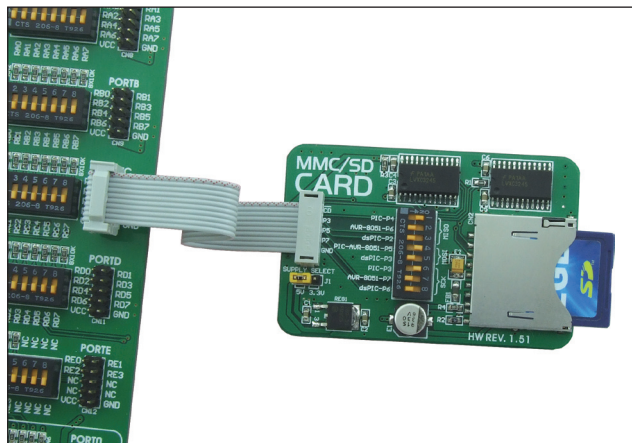


Figure 2: MMC/SD additional board connected to a development system

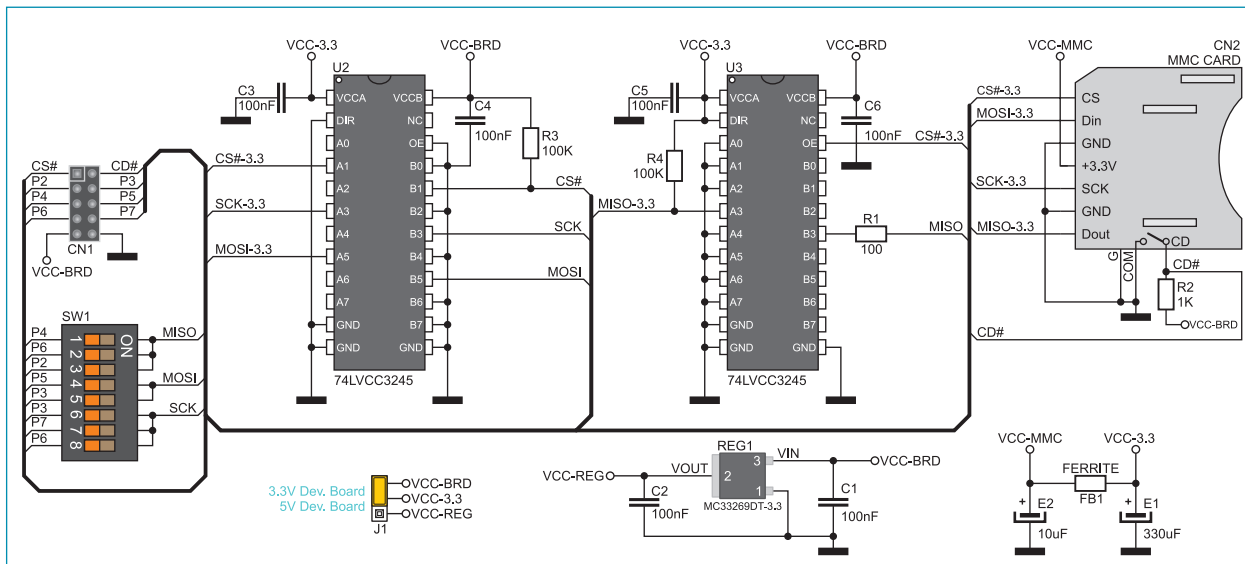


Figure 3: MMC/SD additional board connection schematic

DIP switch SW1 is used to select microcontroller pins to be used for SPI communication.

When the *MMC/SD* additional board is connected to EasyPIC, LV18F, EasyLV-18F, and BigPIC development systems, the following switches on the DIP switch SW1 should be set to the ON position:

P4 -> MISO  
P5 -> MOSI  
P3 -> SCK

For EasyAVR and Easy8051 development systems, the following switches on the DIP switch SW1 should be set to the ON position:

P6 -> MISO  
P5 -> MOSI  
P7 -> SCK

For the EASYdsPIC development system, the following switches on the DIP switch SW1 should be set to the ON position:

P2 -> MISO  
P3 -> MOSI  
P6 -> SCK

For the Easy24-33 development system, the following switches on the DIP switch SW1 should be set to the ON position:

P2 -> MISO  
P5 -> MOSI  
P3 -> SCK



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