MCU Cards
for BIGAVR6™ development system

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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MCU Cards for BIGAVR6 Development System

The BIGAVR6 development system is supported by empty 64- and 100-pin MCU cards. Schematics provided herein show these MCU cards with soldered microcontrollers. Instead of microcontrollers used in these examples, you can choose and solder another ones. Prior to soldering, check which microcontrollers can be placed on the respective MCU card just to be sure that they are compatible. MCU cards are also provided with pads that enables you to access microcontroller pins when the MCU card is not connected to the development system.

Supported microcontrollers::

64-pin MCU cards support the following microcontrollers: ATmega32U6, AT90USB64 and AT90USB128

64- and 100-pin MCU cards (*MCU Card 1*) support the following microcontrollers: AT90CAN32, AT90CAN64, AT90CAN128, ATmega64, ATmega103, ATmega128, ATmega165, ATmega169, ATmega325, ATmega645, ATmega3250 and ATmega6450.

64- and 100-pin MCU cards (*MCU Card 2*) support the following microcontrollers: ATmega1281, ATmega2561, ATmega640, ATmega1280 and ATmega2560.
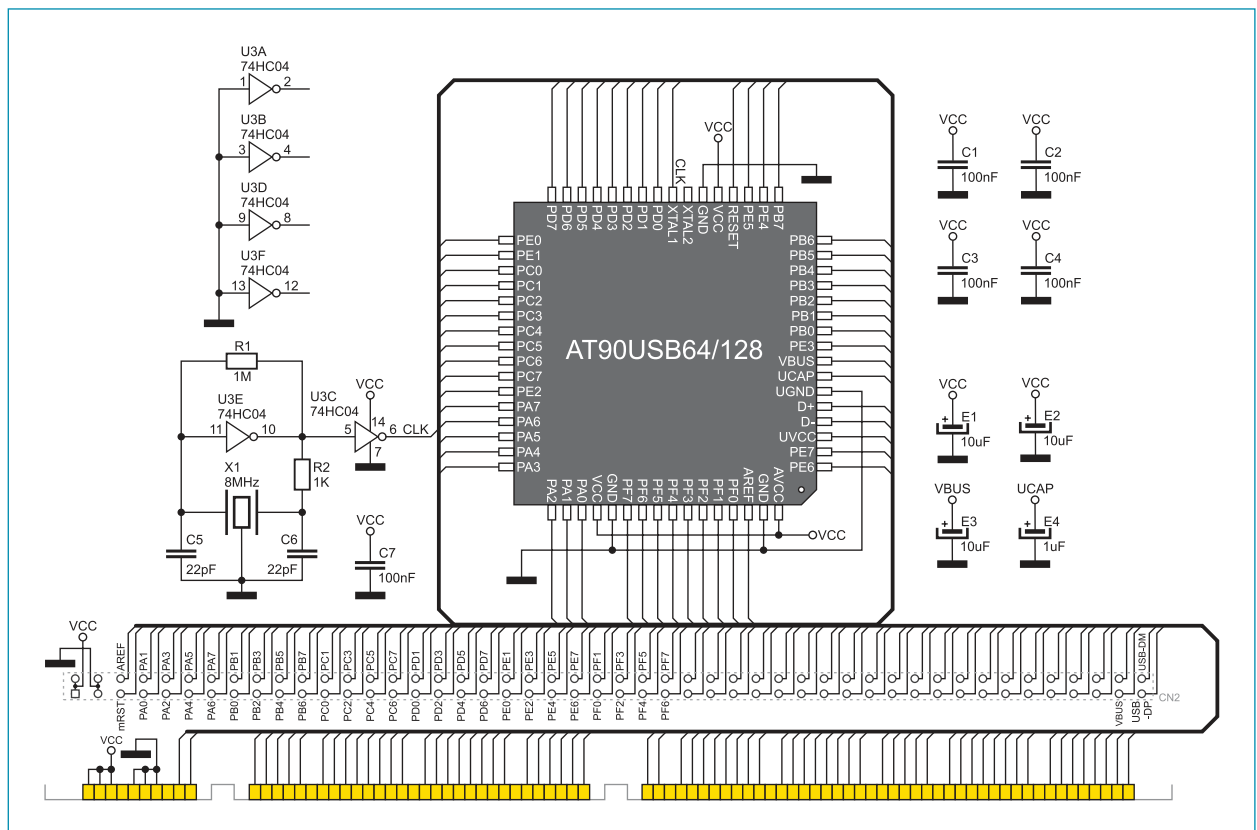

Figure 1: 64-pin MCU card and microcontroller connection schematic

NOTE: Only one microcontroller may be soldered on the MCU card at the same time.
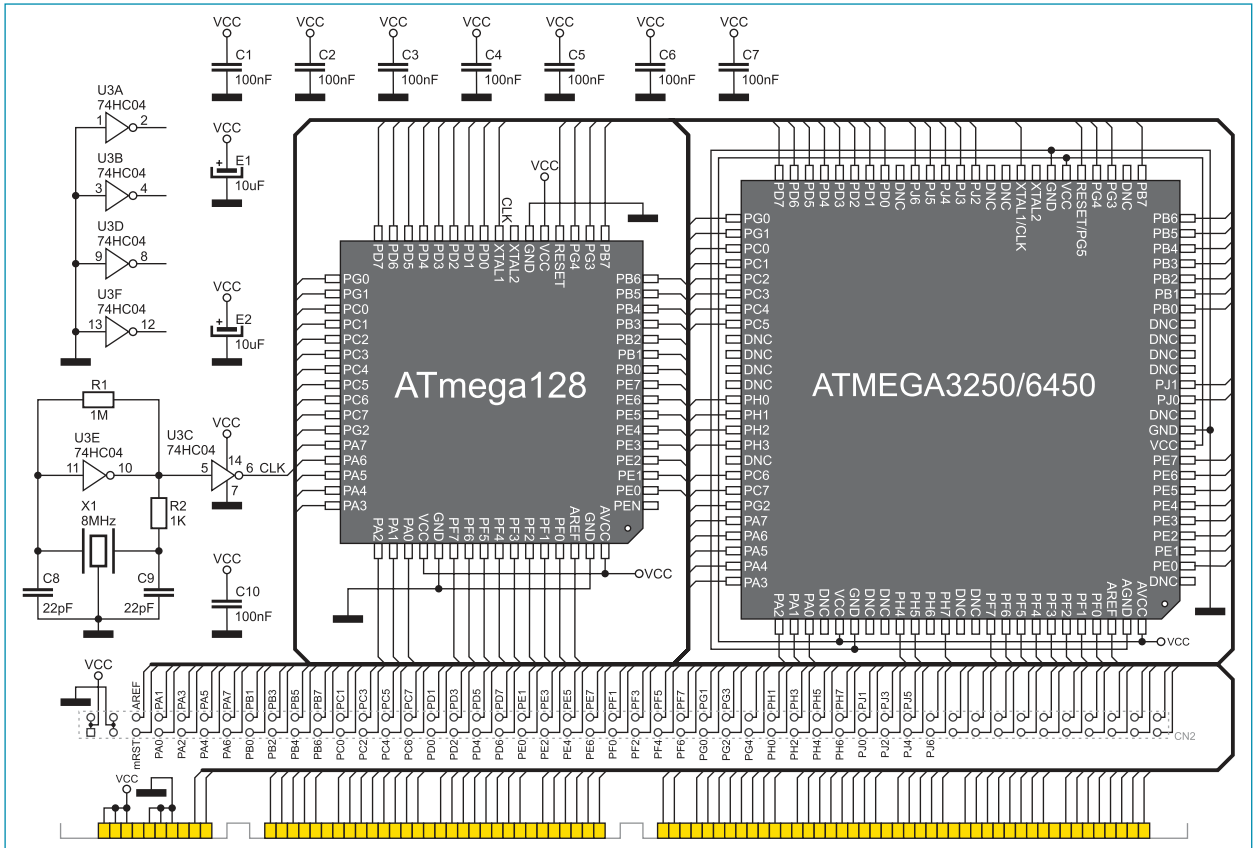
Figure 2: 64/100-pin MCU card *MCU Card 1* and microcontroller connection schematic
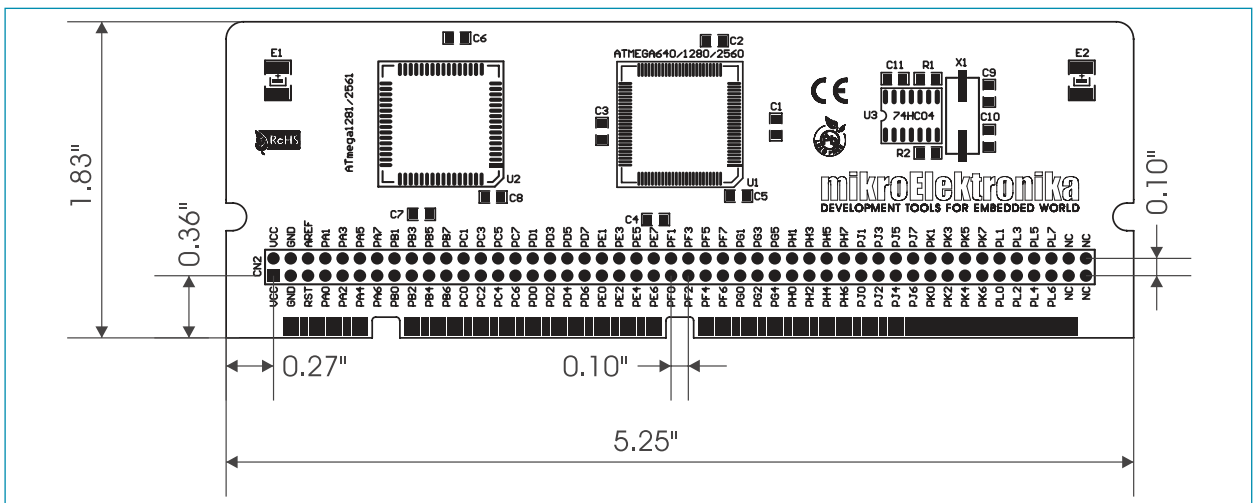

Figure 3: Dimensions of MCU card for *BIGAV6*

NOTE: Dimensions of all MCU cards are the same.
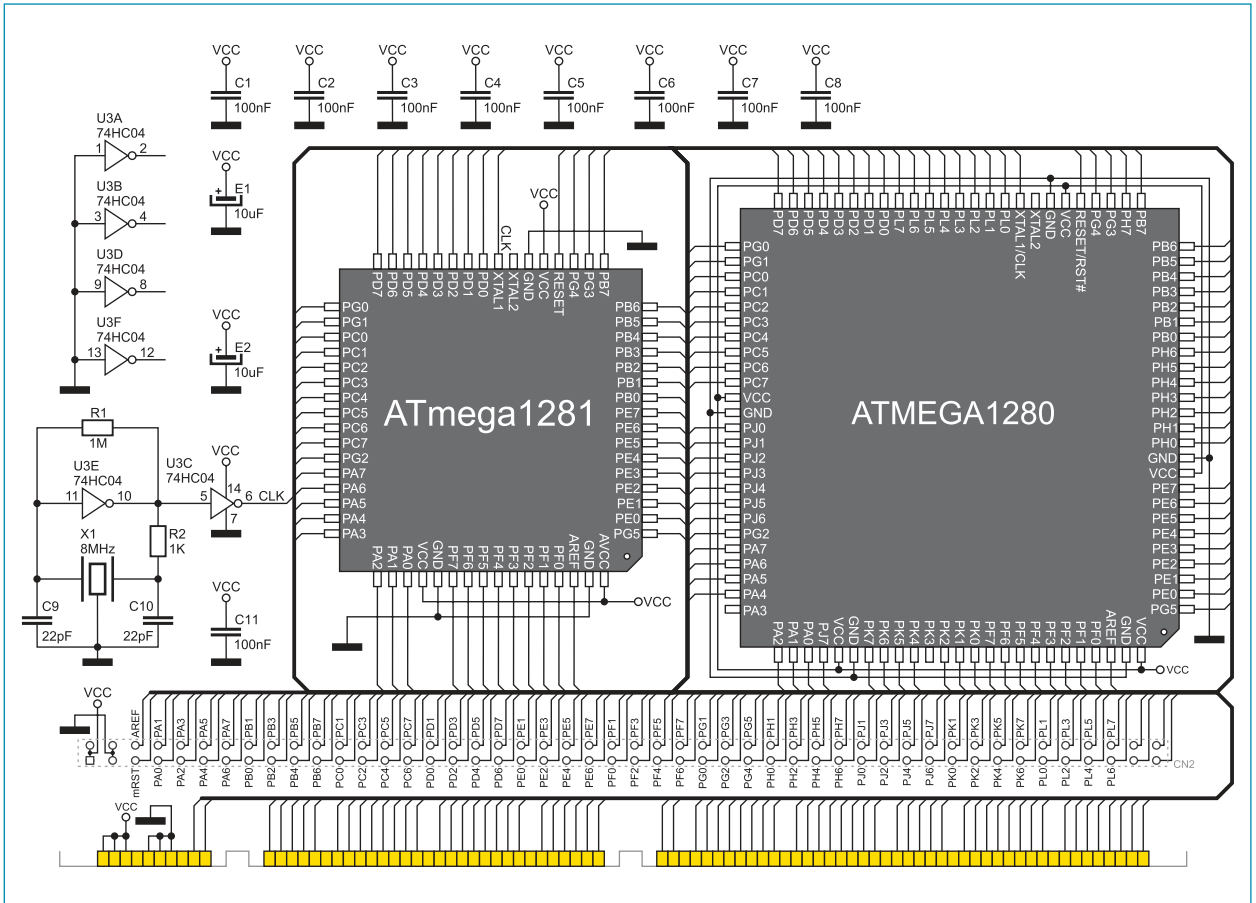
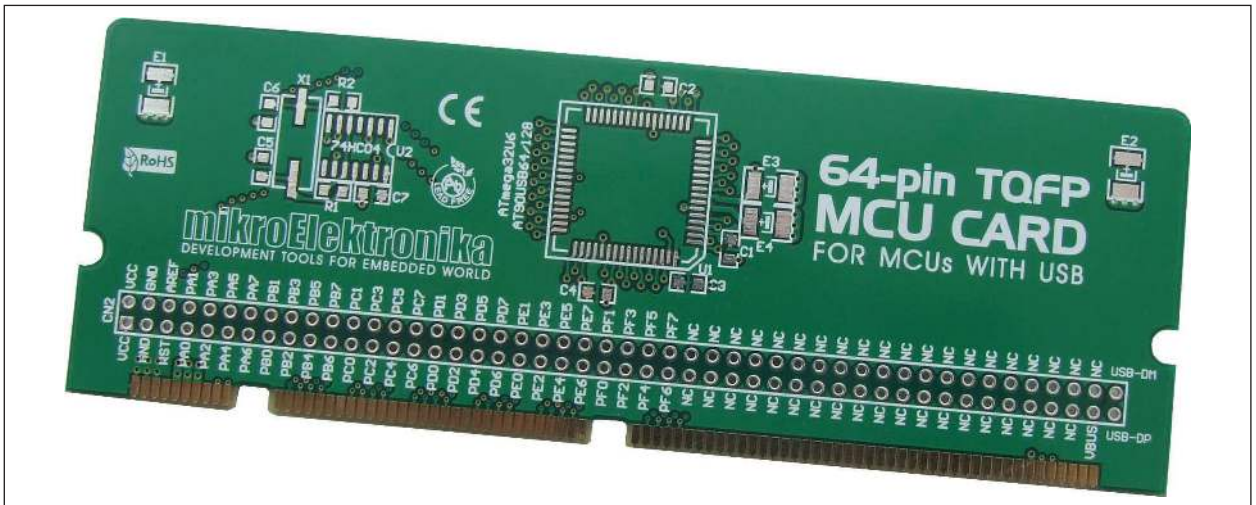**Figure 4**: 64/100-pin MCU card *MCU Card 2* and microcontroller connection schematic
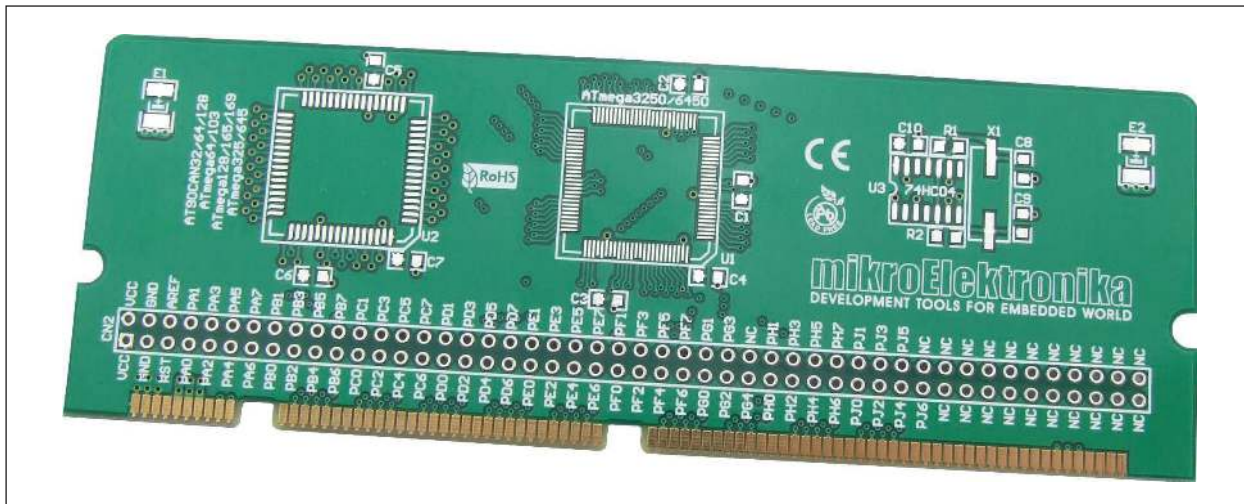

Figure 5: Empty 64-pin MCU card

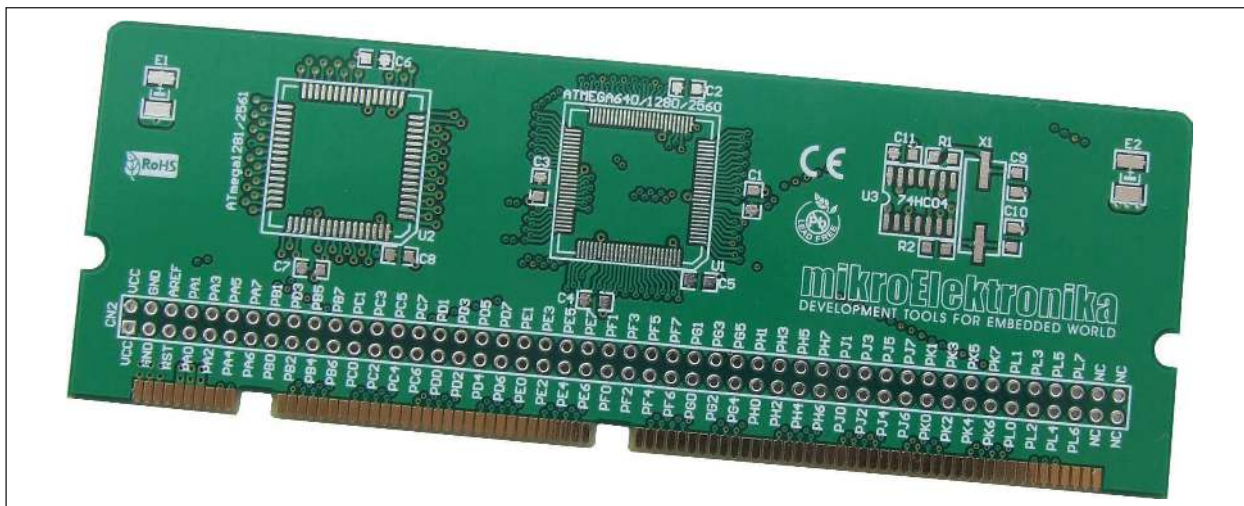**Figure 6:** Empty 64/100 pin MCU card *MCU Card 1*

Figure 7: Empty 64/100 pin MCU card *MCU Card 2*

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