

# MCU Card

MCU Card is a standardized add-on board, which allows very simple installation (and replacement) of the microcontroller unit [MCU] on a system equipped with the MCU Card socket. Depending on the MCU type, its pin count, and the number of required external components, there are several different MCU Cards for each MCU type. This makes each MCU Card a self-contained unit, allowing the development system to operate on a logic level, not having to facilitate specific requirements of many different MCUs. This also allows the MCU to be freely chosen, regardless of the pin count or pin compatibility. Most importantly, it allows to swap MCU Cards easily during the development phase, without any additional hardware interventions.

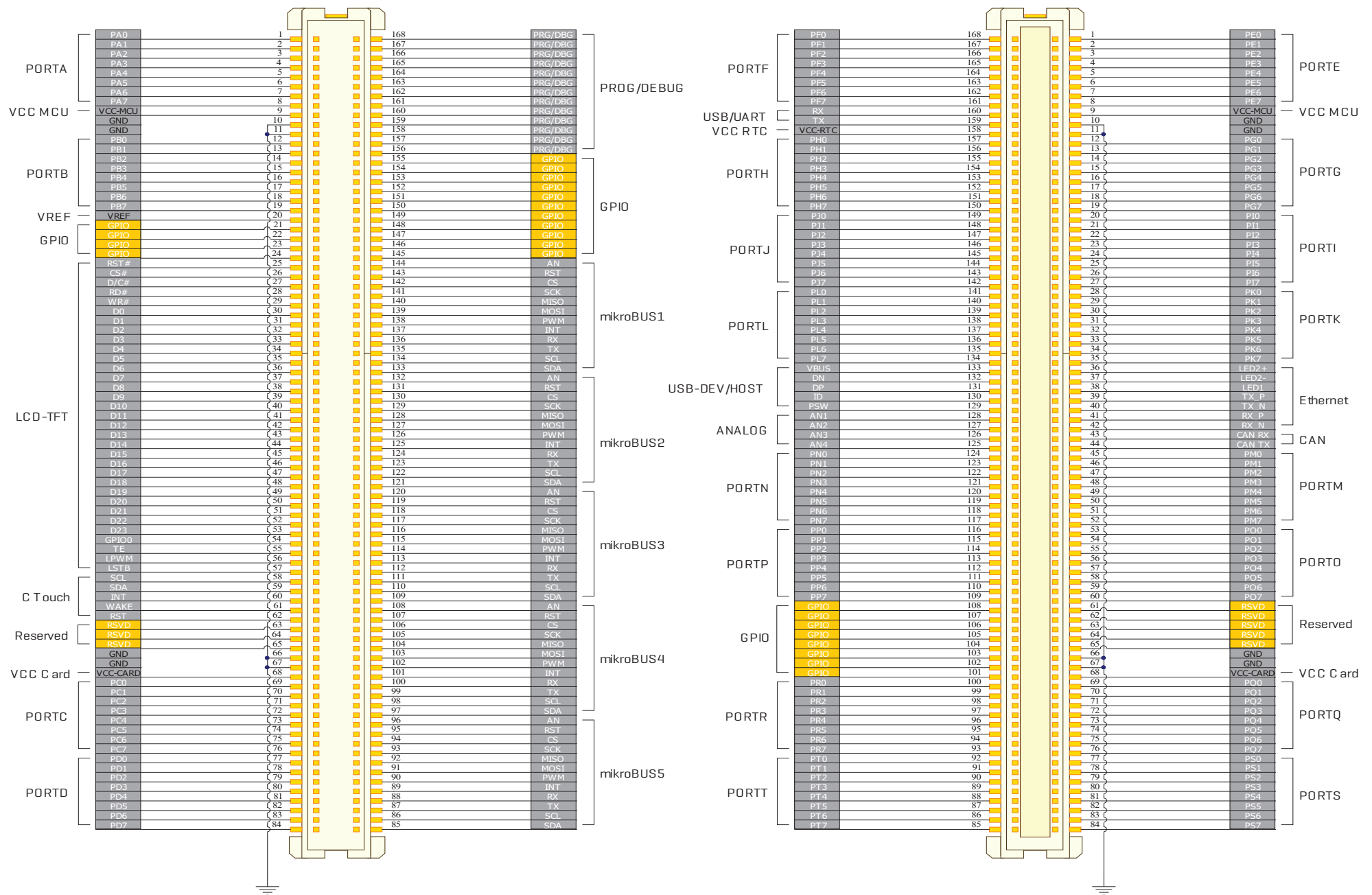
MCU Card is equipped with two 168-pin mezzanine connectors (one male and one female connector) with the standardized pinout. MCU Card is really easy to be installed on a development board, featuring a smart design which minimizes any possibility of incorrect orientation and placement into the MCU Card socket.

There are many pre-assembled MCU Cards equipped with the most commonly used MCUs in our shop already, with more being produced almost daily. In addition, we can

supply any of the supported MCUs on an appropriate MCU card, upon request. Please visit [www.mikroe.com/development-boards/mcu-cards](http://www.mikroe.com/development-boards/mcu-cards) for more information about the MCU Card support.

From the top side, each MCU Card has a clearly labeled MCU family it is designed for [MCU CARD for KINETIS, MCU CARD for STM32...], as well as its PORT width, printed just below the MCU family label [8-BIT PORT, 16-BIT PORT, 32-BIT PORT]. In addition, pins are grouped in accordance to mikroBUS™ sockets to which they are routed. Therefore, there are 5 groups of pins. The pins labeled with yellow color belong to mikroBUS™ sockets, while the white labels represent corresponding pins on the MCU. On the bottom side of the MCU Card, users can find the hardware revision number of the MCU Card itself, as well as the link to the [www.mikroe.com](http://www.mikroe.com) web page.

Find the standardized MCU Card pinout in the schematic printed on the back side.



MCU Card Connectors Schematic