**mikroBUS™ pinout standard specification**

**What is mikroBUS™?**

As we in mikroElektronika see it, plug-and-play devices with minimum settings are the future in embedded world. This is why our engineers have come up with a simple but brilliant pinout with lines that most of today’s accessory boards require, which almost completely eliminates the need of additional hardware settings. We called this new standard the mikroBUS™.

**mikroBUS™ host connector**

Each mikroBUS™ host connector consists of two 1x8 female headers containing pins that are most likely to be used in the target accessory board. There are three groups of communication pins: SPI, UART and I2C communication. There are also single pins for PWM, Interrupt, Analog input, Reset and Chip Select. Pinout contains two power groups: +5V and GND on one header and +3.3V and GND on the other 1x8 header. mikroBUS™ host connector perfectly fits into standard breadboards.

**Integration in your designs**

mikroBUS™ is not made to be only a part of our development boards. You can freely place mikroBUS™ host connectors in your final PCB designs, as long as you clearly mark them on the silkscreen with mikroBUS™ footprint specifications which can be downloaded from the following link: [http://www.mikroe.com/download/mikrobus_specs.zip](http://www.mikroe.com/download/mikrobus_specs.zip)

**Click boards™ are plug-n-play**

mikroElektronika’s portfolio of almost 200 accessory boards is now enriched by an additional set of mikroBUS™ compatible Click boards™. It is our intention to provide the community with as much of these boards as possible, so you will be able to expand your designs with additional functionality and minimim hardware configuration. Just plug and play.

**Can I make mikroBUS™ boards?**

You are allowed to produce and sell your own mikroBUS™ compatible boards, as long as you place mikroBUS™ logo on the board silkscreen. It would be nice to hear about it, so send us an E-mail to [office@mikroe.com](mailto:office@mikroe.com). You are not allowed to call it “Click board” though, because “Click” is the trademark of mikroElektronika.