mikroBUS™ pinout
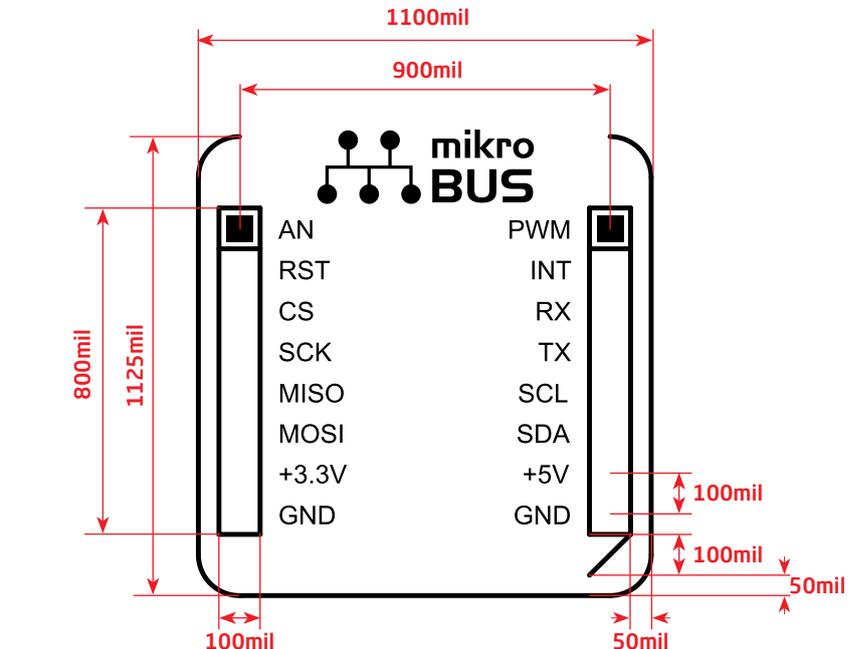## standard specification

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.

AN	- Analog pin		**PWM**	- PWM output line
RST	- Reset pin		**INT**	- Hardware Interrupt line
CS	- SPI Chip Select line		**RX**	- UART Receive line
SCK	- SPI Clock line		**TX**	- UART Transmit line
MISO	- SPI Slave Output line		**SCL**	- I²C Clock line
MOSI	- SPI Slave Input line		**SDA**	- I²C Data line
+3.3V	- VCC-3.3V power line		**+5V**	- VCC-5V power line
GND	- Reference Ground		**GND**	- Reference Ground

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**

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**. You are not allowed to call it "Click board" though, because "Click" is the trademark of mikroElektronika.

MikroElektronika
DEVELOPMENT TOOLS ▮ COMPILERS ▮ BOOKS

for more information, please visit
www.mikroe.com