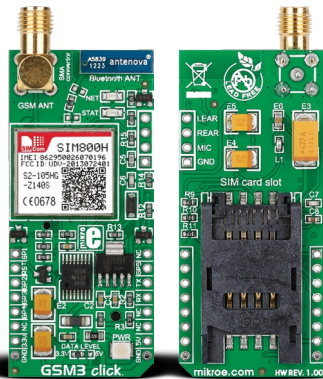




## GSM3 click™

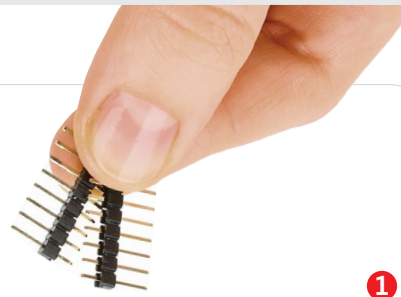
### 1. Introduction



GSM3 click™ carries **SIM800H**, a quad-band (**850/900/1800/1900MHz**) GSM/GPRS module that transmits voice, sms and data information. The board communicates with the target board MCU through the following mikroBUS™ lines: Tx and Rx (UART), RST (reset), GP1 (status indicator), GP2 (RTS), GP3 (GPIO1), GP4 (PWRKEY, used to power on/off the module) and GP5 (CTS). GSM3 click™ is designed to use 3.3V and 5V I/O voltage levels.

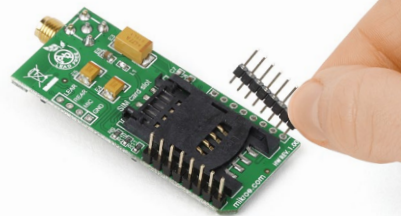
### 2. Soldering the headers

Before using your click™ board, make sure to solder 1x8 male headers to both left and right side of the board. Two 1x8 male headers are included with the board in the package.



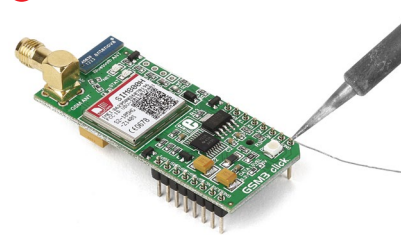
1

2

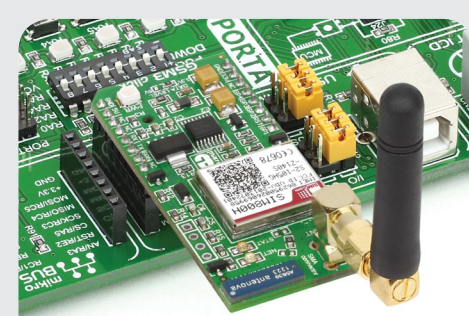


Turn the board upside down so that the bottom side is facing you upwards. Place shorter pins of the header into the appropriate soldering pads.

3



Turn the board upward again. Make sure to align the headers so that they are perpendicular to the board, then solder the pins carefully.

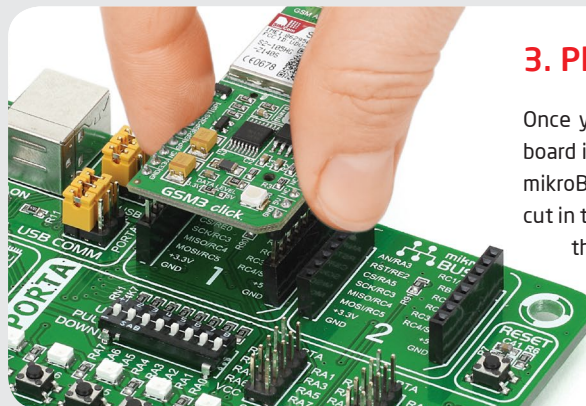


### 4. Essential features

The underside of GSM3 click™ holds the **SIM card slot**. Aside from that the click™ has the following additional features: **audio input/output connection pad** (for microphone and earphones, can also be used as an FM antenna). The STM800H module supports **Bluetooth** so the click™ has an active **2.4GHz antenna**. A **connector for an external GSM antenna is also provided**. Two **indication LEDs signal** the operating and network status of the module.

### 3. Plugging the board in

Once you have soldered the headers your board is ready to be placed into the desired mikroBUS™ socket. Make sure to align the cut in the lower-right part of the board with the markings on the silkscreen at the mikroBUS™ socket. If all the pins are aligned correctly, push the board all the way into the socket.



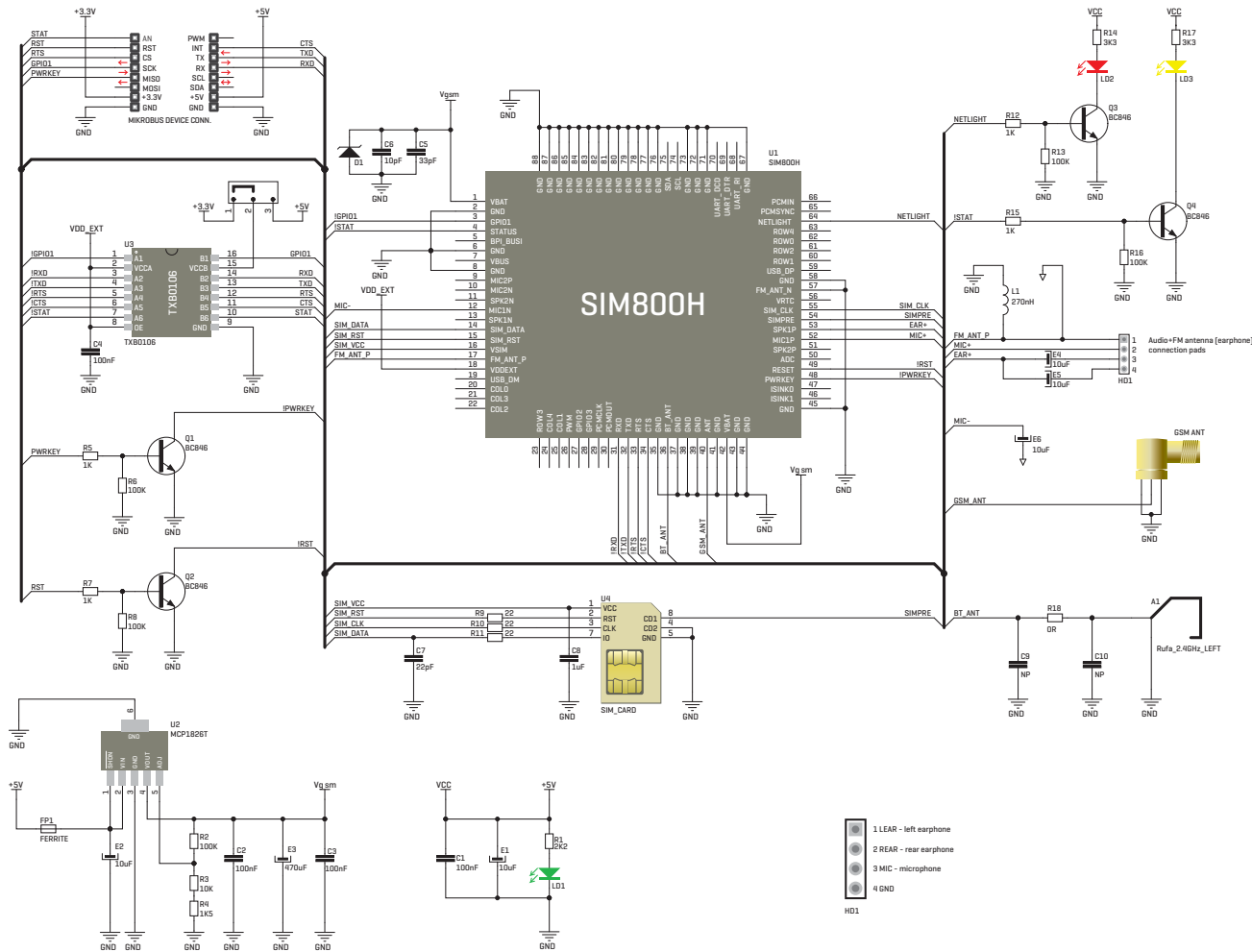
click™  
BOARD  
[www.mikroe.com](http://www.mikroe.com)

GSM3 click™ manual  
ver 1.00



010000072134

## 5. GSM3 click™ board schematic



## 6. SMD jumpers



Resolder the onboard zero ohm SMD jumper to select between 3.3V or 5V I/O voltage levels (soldered in the 3.3V position by default).

## 7. Code examples

Once you have done all the necessary preparations, it's time to get your click™ board up and running. We have provided examples for mikroC™, mikroBasic™ and mikroPascal™ compilers on our **Libstock** website. Just download them and you are ready to start.



## 8. Support

MikroElektronika offers **free tech support** ([www.mikroe.com/support](http://www.mikroe.com/support)) until the end of the product's lifetime, so if something goes wrong, we're ready and willing to help!

- 1 LEAR - left earphone
- 2 REAR - rear earphone
- 3 MIC - microphone
- 4 GND