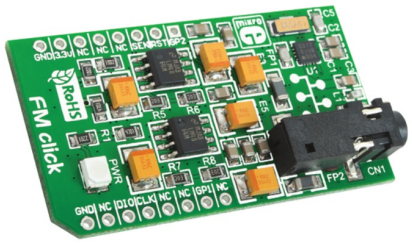
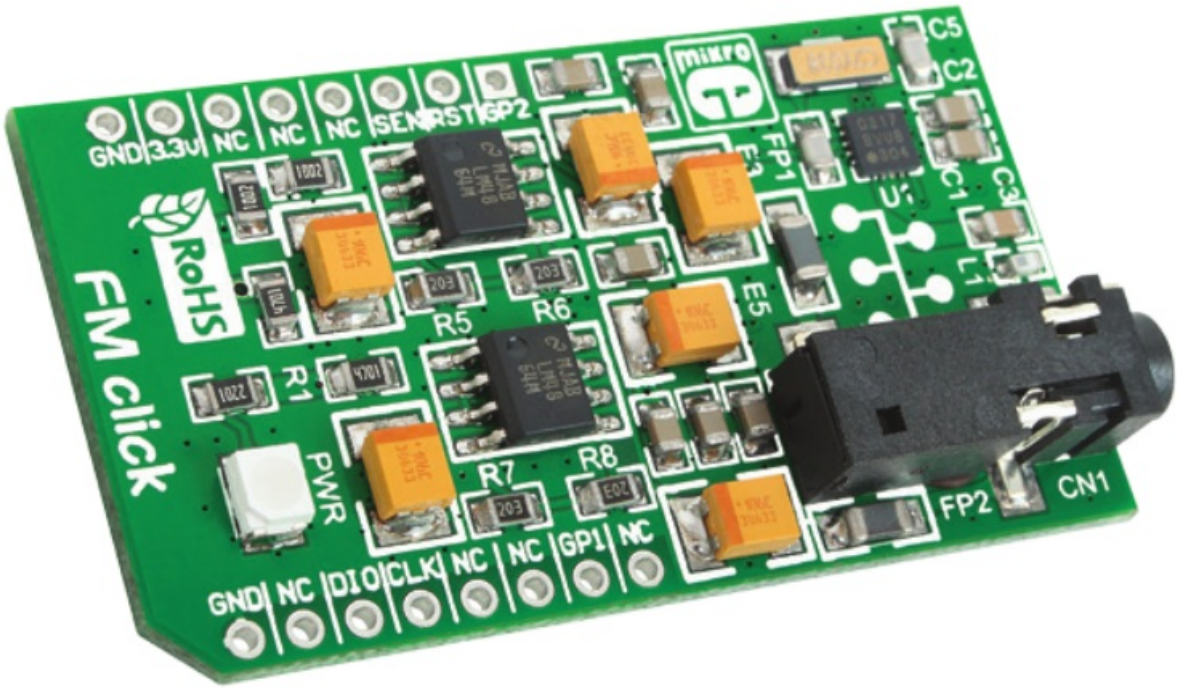


MikroElektronika Si4703 mikroBus Click Board User Guide

MikroElektronika
DEVELOPMENT TOOLS | COMPILERS | BOOKS

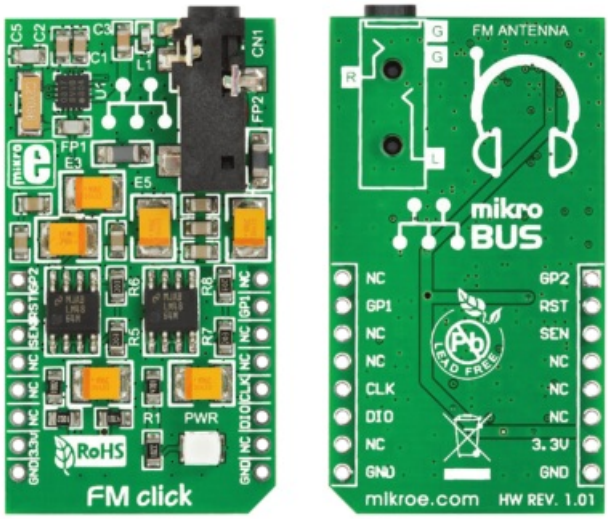
FM click™

Si4703 micro Bus Click Board
User Guide



Contents

Introduction

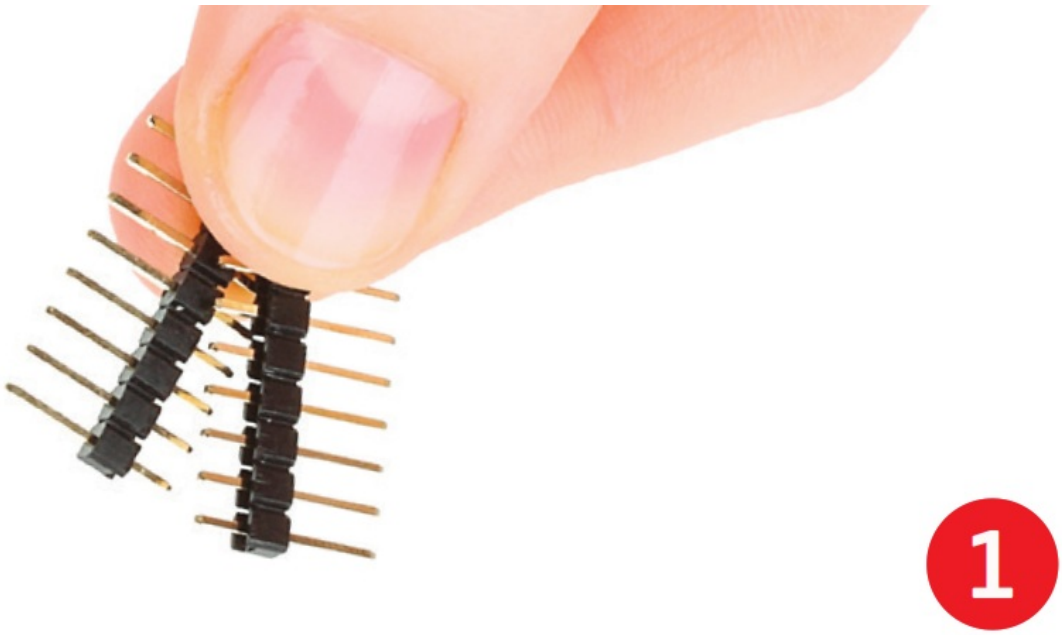


FM Click™ is an accessory board in micro BUS™ form factor. It's a compact and easy solution for adding broadcast FM radio tuner to your design. It features Si4703 FM radio tuner, two LM4864 audio amplifiers as well as stereo audio connector. FM Click™
communicates with the target board microcontroller via micro BUS™ 2 I C (SDA, SCL), INT, RST, CS and AN lines. The board is designed to use 3.3V power supply only. LED diode (GREEN) indicates the presence of power supply.
Downloaded from **Arrow.com**.

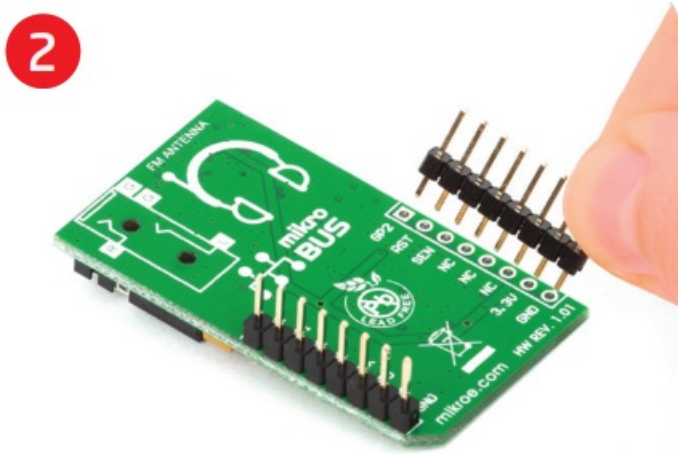
Soldering the headers

1. Before using your click board™, make sure to solder 1×8 male headers to both left and right side of the board.

   Two 1×8 male headers are included with the board in the package.

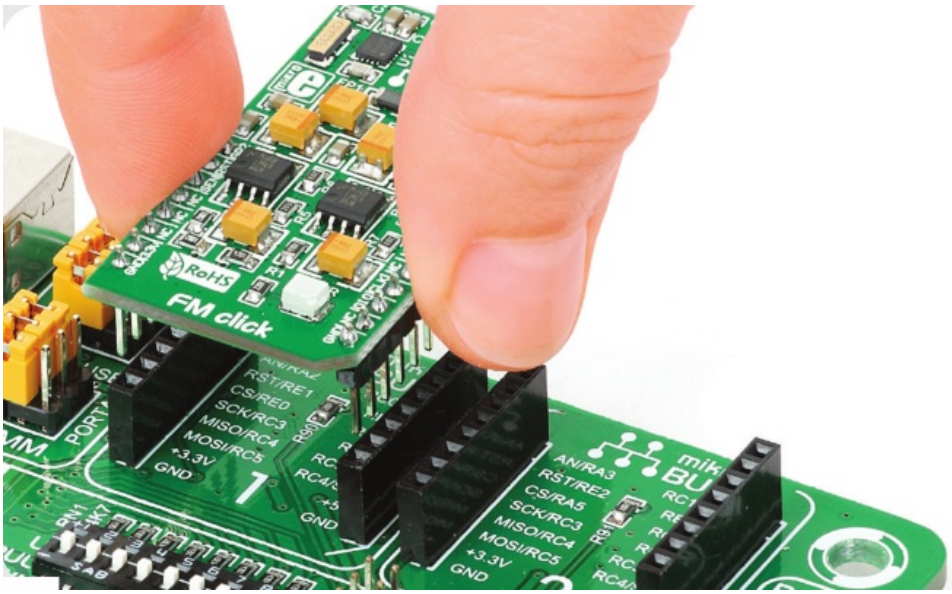


2. Turn the board upside down so that bottom side is facing you upwards. Place shorter parts of the header pins in both soldering pad locations.

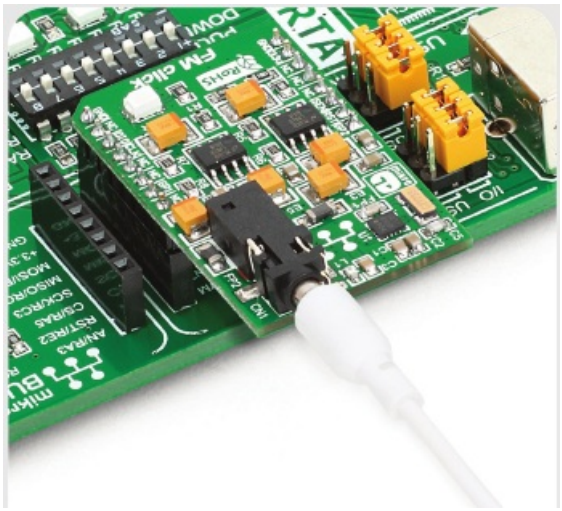


3. Turn the board upward again. Make sure to align the headers so that they are perpendicular to the board, then solder the pins carefully.

Plugging the board in



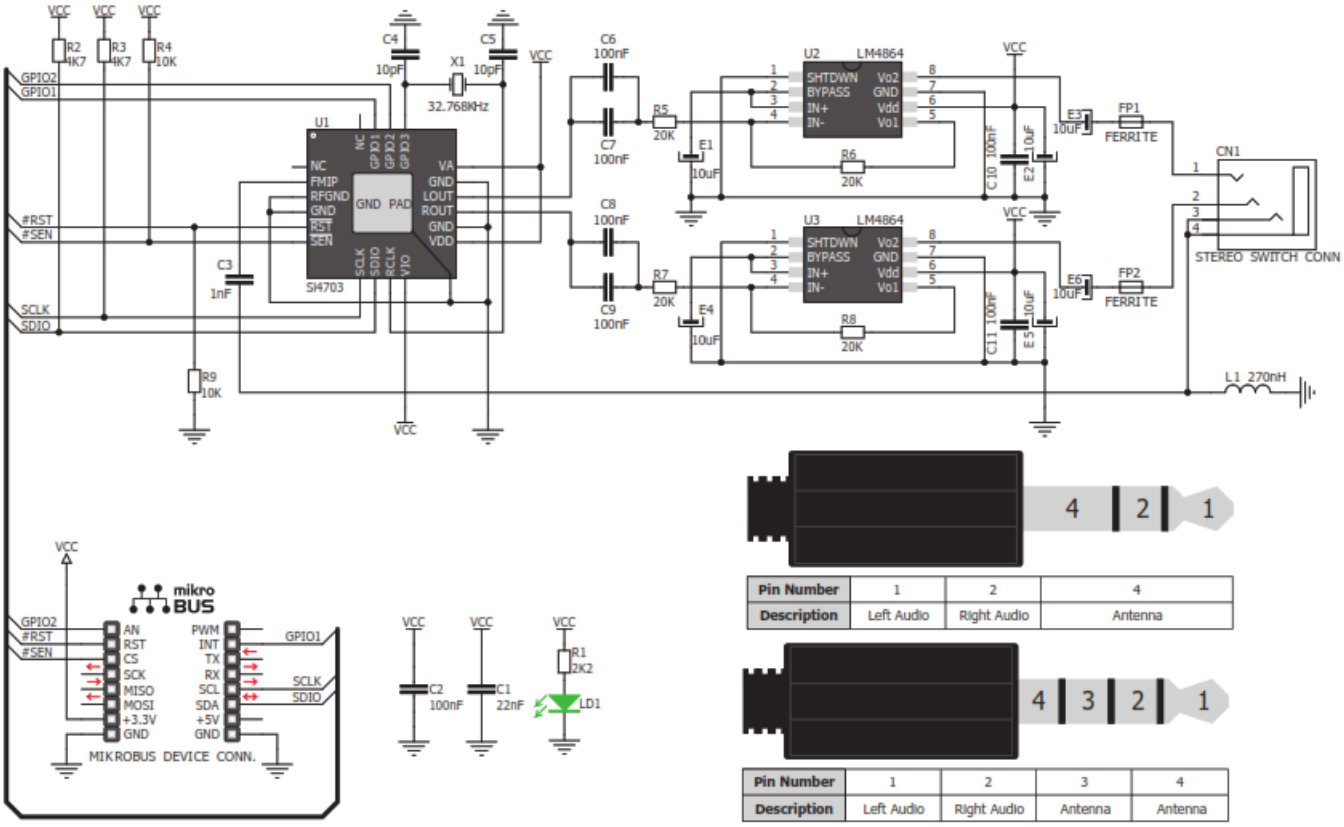
Once you have soldered the headers your board is ready to be placed into desired micro BUS™ socket. Make sure to align the cut in the lower-right part of the board with the markings on the silkscreen at the micro BUS™ socket. If all of the pins are aligned correctly, push the board all the way into the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



Essential features

FM Click™ with it's Si4703 IC is a complete FM radio tuner (from antenna input to stereo audio output). It supports worldwide FM band (76 – 108 MHz). The board contains automatic frequency and gain control, RDS/ RBDS processor, seek tuning and volume
control. All these features make this board ideal for MP3 players, portable radios, PDAs, notebook PCs, portable navigations and many more.

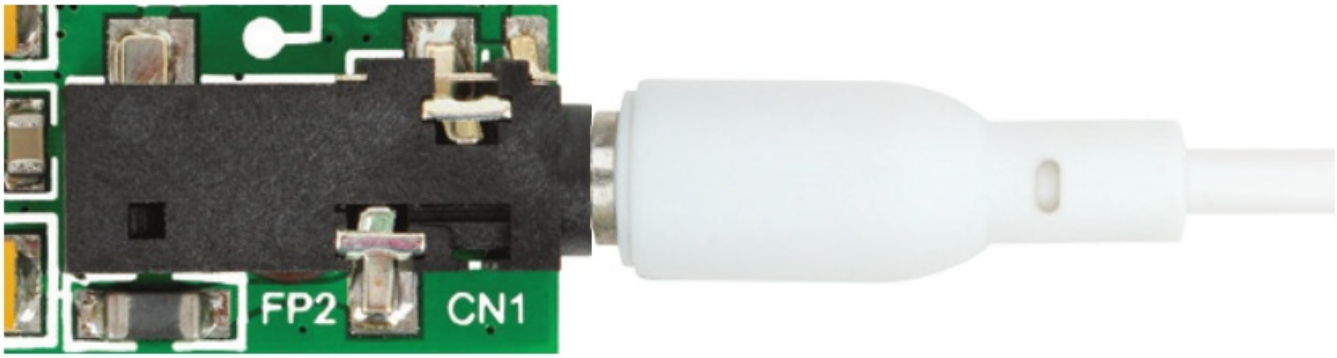
FM Click™ Board Schematic



Pin Number	1	2	4
Description	Left Audio	Right Audio	Antenna

Pin Number	1	2	3	4
Description	Left Audio	Right Audio	Antenna	Antenna

Earphones and antenna



FM antenna is provided through the earphones cable (recommended length between 1.1 and 1.45 m). The board supports 3 and 4 conductor earphones with pinout as shown in schematic. Earphones are not included in the package

Code Examples

Once you have done all the necessary preparations, it’s time to get your click board up and running. We have provided the examples for micro, micro Basic and micro Pascal compilers on our Linstock website. Just download them and you are ready to start.

LIBSTOCK®.COM

Support

Microelectronic offers Free Tech Support (www.mikroe.com/esupport) until the end of product lifetime, so if something goes wrong, we are ready and willing to help!

click™
BOARD

www.mikroe.com

FM click Manual
ver. 1.01

0 100000 023785

Documents / Resources

	MikroElektronika Si4703 mikroBus Click Board [pdf] User Guide Si4703 mikroBus Click Board, Si4703, mikroBus Click Board, Click Board, Board

References

- MikroElektronika support is here to help - MIKROE