SRAM click

1. Introduction

SRAM click lets you add 1 Mbit of additional SRAM memory to your devices, via the **23LC1024** chip. The board communicates with the target MCU through the mikroBUS™ SPI interface (MISO, MOSI, SCK, CS) with additional HOLD functionality provided through the default mikroBUS™ RST pin. *SRAM click* is designed to use either a 3.3V or 5V power supply.

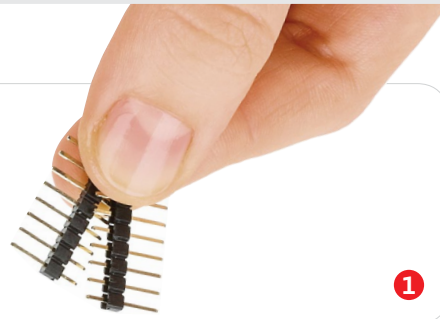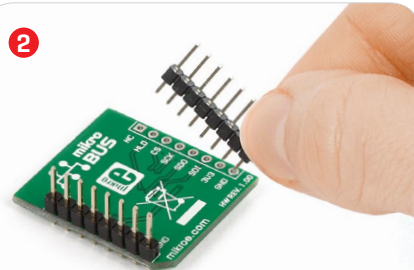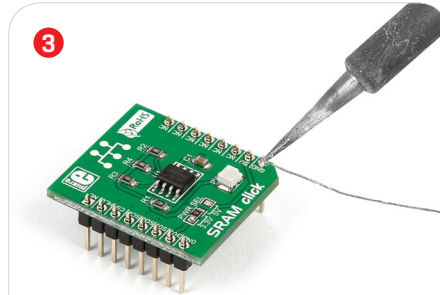## 2. Soldering the headers

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.
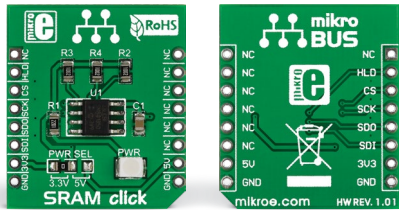
❶

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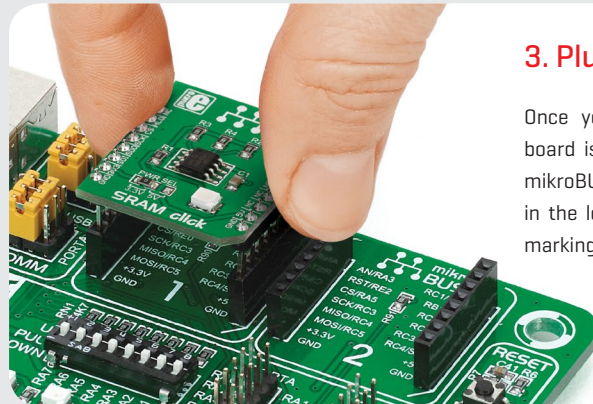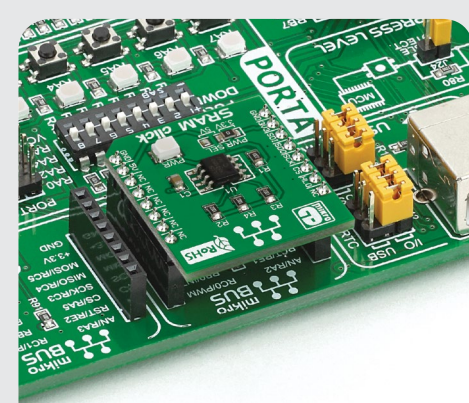
❸ Turn the board upward again. Make sure to align the headers so that they are perpendicular to the board, then solder the pins carefully.

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.

4. Essential features

The 23LC1024 IC organizes the memory in 8-bit instruction registers and 32-byte pages. Three operating modes for reading and writing data are available: byte, page, and sequential (the last one allows read/write for entire memory array). The clock rate for all three modes is up to 20MHz. The HOLD pin, when pulled low, suspends data transmission mid-sequence (without causing the reset of the entire sequence).

5. Schematic

U1
23LC1024
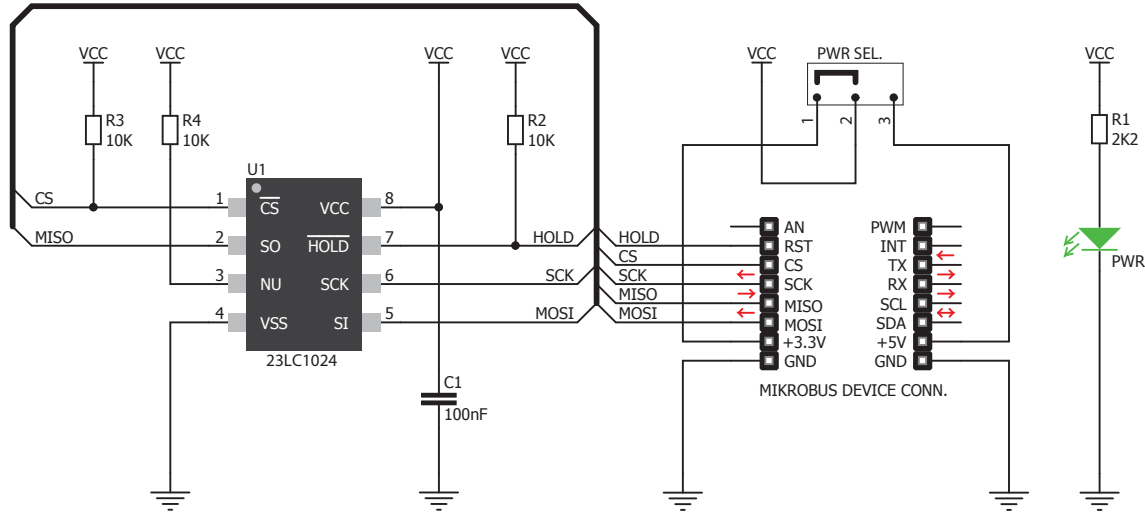
1	$\overline{CS}$	VCC	8
2	SO	$\overline{HOLD}$	7
3	NU	SCK	6
4	VSS	SI	5

R3 10K
R4 10K
R2 10K
R1 2K2

C1 100nF

PWR SEL.

MIKROBUS DEVICE CONN.

AN	PWM
RST	INT
CS	TX
SCK	RX
MISO	SCL
MOSI	SDA
+3.3V	+5V
GND	GND

PWR

9. Support

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

MikroElektronika
DEVELOPMENT TOOLS | COMPILERS | BOOKS

6. Dimensions

	mm	mils
LENGTH	28.6	1125
WIDTH	25.4	1000
HEIGHT*	3.3	130

28.6 mm / 1125 mils

25.4 mm / 1000 mils

* without headers

7. SMD jumpers

SRAM click features an SMD jumper (zero ohm resistor) that let's you switch between a 3.3V or a 5V power supply.

10. Disclaimer

MikroElektronika assumes no responsibility or liability for any errors or inaccuracies that may appear in the present document. Specification and information contained in the present schematic are subject to change at any time without notice.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Memory IC Development Tools *category:*

Click to view products by MikroElektronika *manufacturer:*

Other Similar products are found below :

HLDC-DDR3-A 254 HLDC-DDR4-4GB-A 1569 1897 AC500100 AC243008 AC243009 1895 254 2574 4682 4718 4719 939 HLDC-DDR4-A HLDC-QDRIV-A ASX00008 CY15FRAMKIT-002 CF02-F9-ILAT06-M01 USB02-U9-RBB06-M01 USB06-U8-RB1Q03-M01 AC243003 AC243005-1 AC500101 DM160232 DV243003 MIKROE-3641 MIKROE-3762 MIKROE-3780 MIKROE-3817 MIKROE-4067 MIKROE-4129 MIKROE-4178 MIKROE-4232 MIKROE-4293 MIKROE-4421 MIKROE-4440 MIKROE-1199 MIKROE-1200 MIKROE-1486 MIKROE-1902 MIKROE-1909 MIKROE-1989 MIKROE-2267 MIKROE-2374 MIKROE-2536 MIKROE-2914 MIKROE-3 MIKROE-3104