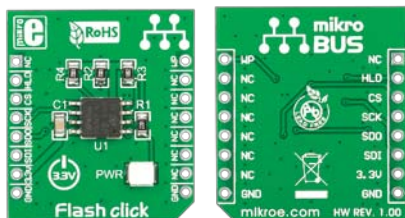# Flash click™

1. Introduction

Flash Click™ is an accessory board in **mikroBUS**™ form factor. It's a compact and easy solution for adding more flash memory to your device. It features **M25P80** - 8Mb serial Flash memory module with advanced hardware write protection mechanisms. Flash Click™ communicates with the target board via SPI interface. The board is designed to use 3.3V power supply only. It has a LED diode (GREEN) that indicates the presence of power supply.
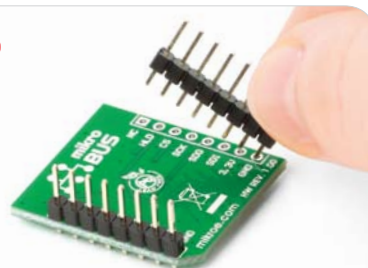
2. Soldering the headers

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.
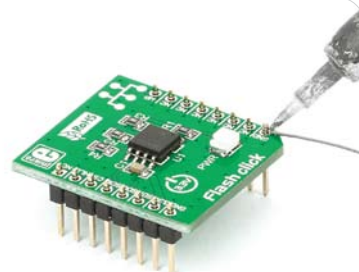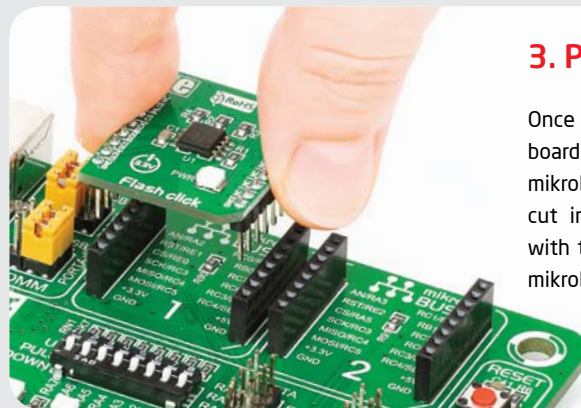
1

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.

3. Plugging the board in

Once you have soldered the headers your board is ready to be placed into 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 of the pins are aligned correctly, push the board all the way into the socket.
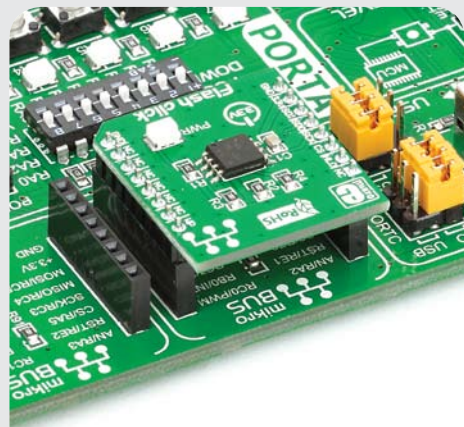
4. Essential features

Flash Click™ with it's **M25P80** module gives additional 8Mb of Flash memory to your design. The **M25P80** supports high-performance commands for clock frequency up to 75MHz. It is divided in 16 sectors, each containing 256 pages. Each page is 256 bytes wide. Memory can be viewed either as 4,096 pages or as 1,048,576 bytes.
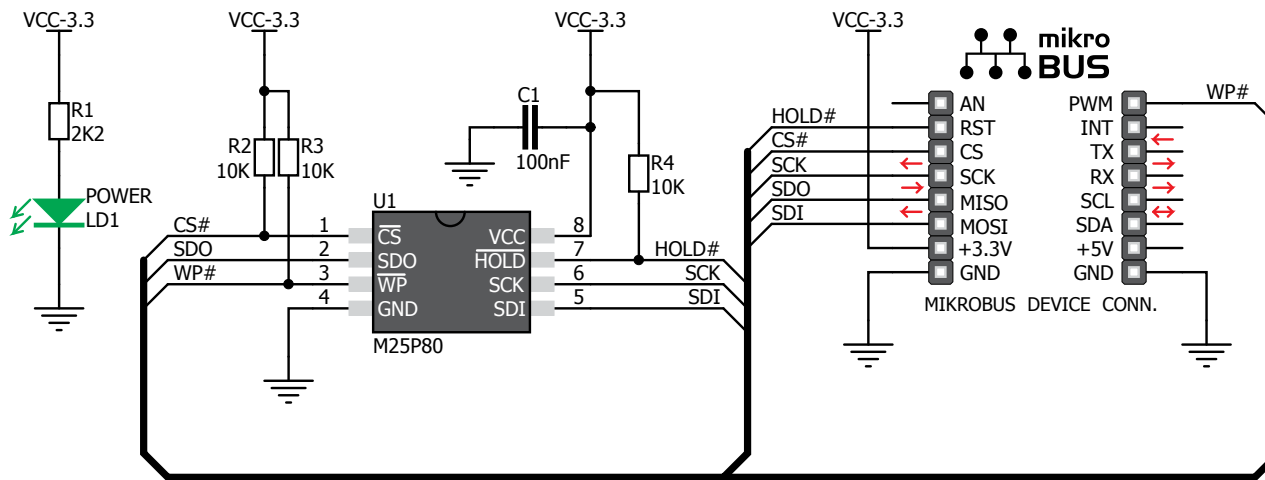
click™ BOARD

www.mikroe.com

5. Flash Click™ Board Schematic

VCC-3.3

R1
2K2

POWER
LD1

VCC-3.3

R2   R3
10K   10K

VCC-3.3

C1
100nF

R4
10K

CS#   1
SDO   2
WP#   3
           4

U1
$\overline{CS}$ VCC   8
SDO $\overline{HOLD}$ 7   HOLD#
$\overline{WP}$ SCK   6   SCK
GND   SDI   5   SDI

M25P80

VCC-3.3

HOLD#
CS#
SCK
SDO
SDI

mikro
BUS

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

WP#

MIKROBUS DEVICE CONN.

6. Power supply - 3.3V only

The board is designed to use 3.3V power supply only. If you need to add serial Flash memory module to your 5V development board, we recommend you to use other boards such as the SerialFlash board:

http://www.mikroe.com/eng/products/ view/441/serialflash-board/

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 the examples for mikroC, mikroBasic and mikroPascal compilers on our **Libstock** website. Just download them and you are ready to start.

LIBSTOCK .com

8. Support

MikroElektronika 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!

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