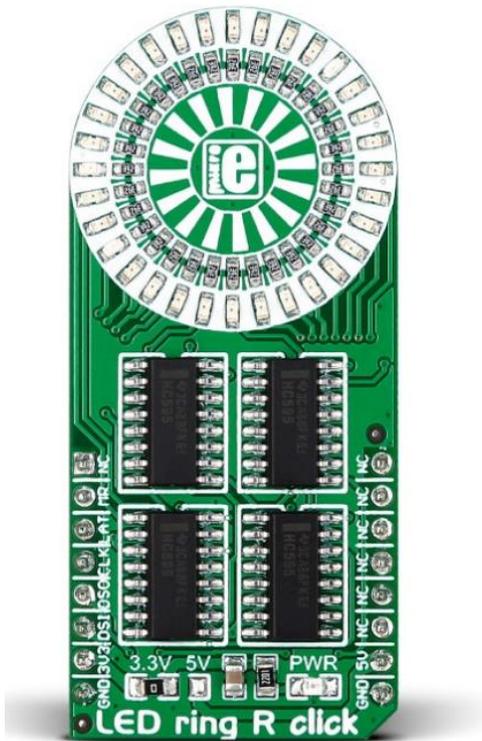


Led ring R click



PID: MIKROE-2153

RS Product Code: [136-0801](#)

LED ring R click is a mikroBUS™ add-on board with a ring of 32 red LEDs driven by four 8-bit 74HC595 serial-in, parallel-out shift registers. The ring is 25mm in diameter. The click communicates with the target MCU through the mikroBUS™ SPI interface, with RST, CS, SCK, MISO and MOSI pins marked MR#, LAT, CLK, DSOUT, DSIN, respectively. Other LED colours will also be available. The board is designed to use either a 3.3V or 5V power supply only.

Specification

Product Type	LED Matrix
Applications	Indicator lights or decorative installations
On-board modules	8-bit 74HC595 serial-in, parallel-out shift registers
Key Features	Ring of 32 red LEDs, Four 74HC595 registers, 25mm diameter
Key Benefits	Using 8-bit shift registers to drive an array of LEDs is simply good practice, because it leaves more available pins on the target MCU
Interface	SPI
Power Supply	3.3V or 5V
Compatibility	mikroBUS
Click board size	L (57.15 x 25.4 mm)
Weight	25g

Features and usage notes

LED ring click is one of several click boards that employ 74HCP595 shift registers to drive LEDs. Rotary click use the same, as well as Bargraph click, 7-Seg click and 7x10 click.

Using 8-bit shift registers to drive an array of LEDs is simply good practice, because it leaves more available pins on the target MCU, allowing you to either use a cheaper, lower pin count main MCU, or use the leftover pins for other purposes.

The end result is a smaller, more cost effective design.

Programming

Click on link [Mikroe.com](https://mikroe.com) for a code snippet that demonstrates different ways to communicate with the click and initializes a clockwork pattern with a single LED at a time.

Code examples that demonstrate the usage of LED Ring click with MikroElektronika hardware, written for mikroC for ARM, PIC, and FT90x are available on Libstock.

Downloads

[LED ring R click Examples](#)

[Led ring R click Schematic](#)