MIKROELEKTRONIKA D.O.O, Batajnički drum 23, 11000 Belgrade, Serbia
VAT: SR105917343 Registration No. 20490918
Phone: + 381 11 78 57 600 Fax: + 381 11 63 09 644 E-mail: office@mikroe.com
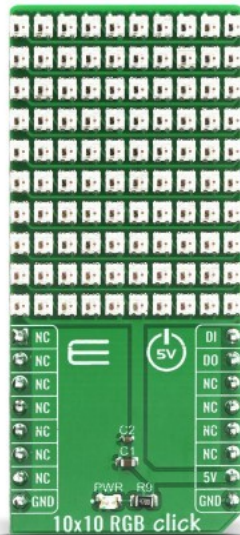www.mikroe.com

10x10 RGB Click

PID: MIKROE-4115

10x10 RGB Click is a matrix of 100 "intelligent" RGB elements, forming a 10x10 display screen. These LED elements feature internal logic, which allows them to communicate directly with the MCU. These intelligent LEDs are meant to be cascaded: the elements communicate by a single line with the host MCU and they feature a signal reshaping section, so the data gets to the adjacent element with no losses or distortion.

10x10 RGB Click is supported by a mikroSDK compliant library, which includes functions that simplify software development. This Click board™ comes as a fully tested product, ready to be used on a system equipped with the mikroBUS™ socket.

Specifications

Type	Optical
Applications	Full-color module, Full color soft lights a lamp strip, LED decorative lighting, indoor/outdoor LED irregular screen, game machine and amusement equipment etc.
On-board modules	WS2812 intelligent control LED
Key Features	256 brightness display, completed 16777216 color full color display and scan frequency is of 2KHz, send data speed of 800Kbps, 5mA operating current per channel
Interface	GPIO
Compatibility	mikroBUS
Click board size	L (57.15 x 25.4 mm)
Input Voltage	5V

Resources

mikroBUS™

mikroSDK

Click board™ Catalog

Click Boards™

Downloads

WS2812 datasheet

10x10 RGB click schematic

10x10 RGB click example on Libstock