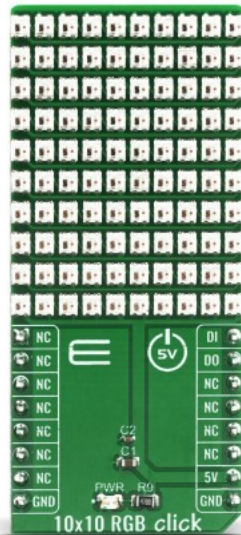


10x10 RGB Click



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.

Mikroe produces entire development toolchains for all major microcontroller architectures.

Committed to excellency, we are dedicated to helping engineers bring the project development up to speed and achieve outstanding results.



ISO 27001: 2013 certification of informational security management system.
 ISO 14001: 2015 certification of environmental management system.
 OHSAS 18001: 2008 certification of occupational health and safety management system.



ISO 9001: 2015 certification of quality management system (QMS).

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™ Standard specification](#)

[LibStock: mikroSDK](#)

[Click board catalog](#)

[Click boards™ Standard Page](#)

Downloads

[WS2812 datasheet](#)

[10x10 RGB click schematic](#)

[10x10 RGB click example on Libstock](#)

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