

LED Driver 9 Click



PID: MIKROE-4595

LED Driver 9 Click is a compact add-on board that simplifies the control of multiple LEDs. This board features the TLC59116, I2C bus-controlled 16-channel LED driver optimized for red/green/blue/amber (RGBA) color mixing and backlight application from Texas Instruments. Each 16-channel LED output has its 8-bit resolution (256 steps), fixed-frequency, individual PWM controller that operates at 97 kHz, with a duty cycle that is adjustable from 0% to 99.6%. The particular PWM controller allows each LED to be set to a specific brightness value and dim or blinks all LEDs with the same value. This Click board™ is suitable for RGBA color mixing and backlight application for amusement products, LED status signalization, home automation projects, industrial equipment, and many more.

LED Driver 9 Click supports the mikroSDK compliant library, which includes functions that simplify software development. This Click board™ comes as a thoroughly 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	LED Drivers
Applications	Can be used for RGBA color mixing and backlight application for amusement products, LED status signalization, home automation projects, industrial equipment, and many more.
On-board modules	TLC59116 - I2C bus controlled 16-channel LED driver optimized for red/green/blue/amber (RGBA) color mixing and backlight application from Texas Instruments
Key Features	16 LED programmable drivers, output current adjusted through an external resistor, supports hot insertion, programmable group dimming and blinking, and many more.
Interface	I2C
ClickID	No
Compatibility	mikroBUS
Click board size	L (57.15 x 25.4 mm)
Input Voltage	3.3V

Resources

[mikroBUS™](#)
[mikroSDK](#)
[Click board™ Catalog](#)
[Click boards™](#)

Downloads

[LED Driver 9 click 2D and 3D files](#)
[TLC59116 datasheet](#)
[LED Driver 9 click schematic](#)
[LED Driver 9 click example on Libstock](#)

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).