

# LED Driver 10 Click



PID: MIKROE-4787

**LED Driver 10 Click** is a compact add-on board that simplifies the control of multiple LEDs. This board features the [TLC59283](#), a 16-channel, constant-current sink light-emitting diode (LED) driver with pre-charge FET from [Texas Instruments](#). Each LED channel can be individually controlled with a simple SPI serial communication protocol compatible with both 3.3V or 5V logic levels. Each constant-current output has a pre-charge field-effect transistor that can reduce ghosting on the multiplexing drive LED display. It has additional features such as switching off all outputs via just one mikroBUS™ pin and setting the constant-current values on all 16 channels via one onboard potentiometer. This Click board™ is suitable for color mixing and backlight application for amusement products, LED status signalization, home automation projects, and many more.

LED Driver 10 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	LED Drivers
Applications	Can be used for color mixing and backlight application for amusement products, LED status signalization, home automation projects, and many more
On-board modules	TLC59283 - SPI bus controlled, 16-channel, constant-current sink light-emitting diode (LED) driver with pre-charge FET from Texas Instruments
Key Features	Low power consumption, 16 channels, ON/OFF LED channels control, pre-charge FET for ghosting reduction, switching delay for noise reduction, channel-current setting, and more
Interface	SPI
ClickID	No
Compatibility	mikroBUS
Click board size	L (57.15 x 25.4 mm)
Input Voltage	3.3V or 5V

## Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click boards™](#)

## Downloads

[TLC59283 datasheet](#)

[LED Driver 10 click 2D and 3D files](#)

[LED Driver 10 click schematic](#)

[LED Driver 10 click example on Libstock](#)

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