

LED Driver 18 Click



PID: MIKROE-5560

LED Driver 18 Click is a compact add-on board that simplifies the control of multiple LEDs. This board features the TLC5974, a 24-channel LED driver from Texas Instruments. Each channel is individually adjustable with 4096 pulse-width modulated (PWM) steps and has a programmable current value of all channels with a maximum of 30mA of LED current per channel. This LED driver also features a built-in thermal shutdown function that turns OFF all output drivers during an over-temperature condition. 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 18 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 more
On-board modules	TLC5947 - PWM LED driver from Texas Instruments
Key Features	24 LED channels, programmable current value, PWM grayscale control, thermal shutdown protection, low power consumption, high efficiency and performance, and more
Interface	I2C,SPI
Compatibility	mikroBUS
Click board size	M (42.9 x 25.4 mm)
Input Voltage	3.3V or 5V

Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click boards™](#)

Downloads

[LED Driver 18 click example on Libstock](#)

[AD5171 datasheet](#)

[TLC5947 datasheet](#)

[LED Driver 18 click 2D and 3D files](#)

[LED Driver 18 click schematic](#)

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