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LED Driver 12 Click

PID: MIKROE-4977

LED Driver 12 Click is a compact add-on board that simplifies the control of multiple LEDs. This board features the PCA9532, a 16-bit I2C-configurable I/O expander optimized for dimming LEDs in 256 discrete Red/Green/Blue (RGB) steps from NXP Semiconductors. The PCA9532 offers high efficiency, supporting up to 16 LED channels and delivering a maximum of up to 25mA of LED current per channel. It contains an internal oscillator with two user-programmable blink rates and duty cycles coupled to the output PWM. Any bits not used for controlling the LEDs can be used for GPIO expansion, which provides a simple solution when additional I/O is needed for some sensors, push-buttons, or alarm monitoring. 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 12 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	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	PCA9532 - 16-bit I2C-configurable LED dimmer from NXP Semiconductors
Key Features	Low power consumption, 16 channels, ON/OFF LED channels control, two selectable fully programmable blink rates, supports hot insertion, drive LEDs to 25mA, and more
Interface	I2C
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

LED Driver 12 click example on Libstock

PCA9532 datasheet

LED Driver 12 click schematic

LED Driver 12 click 2D and 3D files