

LED Driver 13 Click



PID: MIKROE-4965

LED Driver 13 Click is a compact add-on board that simplifies the control of multiple LEDs. This board features the A80604-1, a 4-channel LED driver designed at a switching frequency of 400kHz that provides 150mA per channel from [Allegro Microsystems](#). It is powered by an external power supply in the range of 6V to 18V, providing an output voltage of approximately 26V, which is used to power LEDs connected to LED channels. On the logical side, this board uses both 3V3 and 5V with mikroBUS™ power rails and communicates with the MCU via GPIO pins. In addition, the user is given the option of analog or digital LED dimming selection, using a PWM pin from the mikroBUS™ socket or via an onboard potentiometer/external PWM signal. This Click board™ is suitable for various automotive applications, such as infotainment backlighting, interior/exterior lighting, heads-up display, and more.

LED Driver 13 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 various automotive applications, such as infotainment backlighting, interior/exterior lighting, heads-up display, and more
On-board modules	A80604-1 - multi-output LED driver for automotive applications from Allegro Microsystems
Key Features	Designed at a switching frequency of 400kHz, operate in Boost or SEPIC mode for flexible output , provides 150mA per channel, programmable boost frequency, selectable LED Dimming feature, onboard protection circuitry, and more
Interface	GPIO,PWM
Compatibility	mikroBUS
Click board size	L (57.15 x 25.4 mm)
Input Voltage	3.3V or 5V,External

Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click Boards™](#)

Downloads

[LED Driver 13 click 2D and 3D files](#)

[A80604-1 datasheet](#)

[LED Driver 13 click schematic](#)

[LED Driver 13 click example on Libstock](#)

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