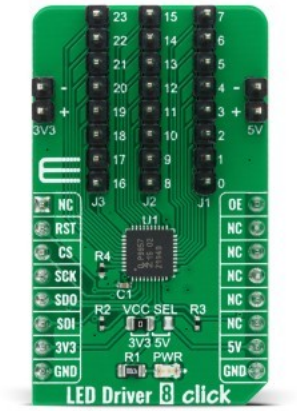
MIKROELEKTRONIKA D.O.O, Batajnički drum 23, 11000 Belgrade, Serbia
VAT: SR105917343 Registration No. 20490918
Phone: + 381 11 78 57 600 Fax: + 381 11 63 09 644 E-mail: office@mikroe.com
www.mikroe.com

LED Driver 8 Click



PID: MIKROE-4268

LED Driver 8 Click is a compact add-on board optimized for dimming and blinking 32 mA RGBA LEDs. This board features the PCA9957HNMP, 24-channel SPI-compatible constant current LED driver from NXP Semiconductors. It has 24 LED output channels with a programmable group dimming/blinking mixed with individual LED brightness, and programmable LED output delay to reduce EMI and surge currents. It also possesses gradation control for all channels where all 24 constant current output channels can sink up to 32 mA, and tolerate up to 5.5 V in its OFF state. As the name itself says, this Click board™ next to driving RGBA LEDs can be used in the purpose of LED Status signalization, in LED displays, LED backlight, keypad backlights for cellular phones, or handheld devices, and many more.

LED Driver 8 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.

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Specifications

Type	LED Drivers
Applications	Can be used in the purpose of LED Status signalization, in LED displays, LED backlight, keypad backlights for cellular phones, or handheld devices, and many more.
On-board modules	LED Driver 8 Click is based on the PCA9957, a daisy-chain SPI compatible 4-wire serial bus controlled 24-channel constant current LED driver optimized for dimming and blinking 32 mA RGBA LEDs from NXP Semiconductors.
Key Features	Low power consumption, programmable LED drivers channels, gradation control for all channels, low standby current, no glitch on LED outputs on Power-Up, and more.
Interface	SPI
ClickID	No
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 8 click 2D and 3D files

PCA9957DS datasheet

LED Driver 8 click schematic

LED Driver 8 click example on Libstock