

Color 15 Click



PID: MIKROE-5121

Color 15 Click is a compact add-on board representing an accurate color sensing solution. This board features the CLS-16D24-44-DF8/TR8, a low power, high sensitivity, color light sensor from Everlight Electronics. This Click board™, with an I2C configurable color sensor, senses red, green, blue, white (RGBW), and infrared light and converts them to digital values. The RGBW sensor is designed to reject IR in light sources allowing the device to operate in environments from sunlight to dark rooms. The integrating ADC rejects 50Hz and 60Hz flickers caused by artificial light sources. This Click board™ is suitable for automatic residential and commercial lighting management, contrast enhancement, detection of ambient for backlight control, and more.

Color 15 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	Color Sensing,Optical
Applications	Can be used for automatic residential and commercial lighting management, contrast enhancement, detection of ambient for backlight control, and more
On-board modules	CLS-16D24-44-DF8/TR8 - color light sensor from Everlight Electronics
Key Features	Low power consumption, parallel output for red, green, blue, white and infrared, high resolution and sensitivity, works well under different light source conditions, programmable interrupt, and more
Interface	I2C
ClickID	No
Compatibility	mikroBUS
Click board size	S (28.6 x 25.4 mm)
Input Voltage	3.3V or 5V

Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click boards™](#)

Downloads

[Color 15 click example on Libstock](#)

[PCA9306 datasheet](#)

[CLS-16D24-44-DF8_TR8 datasheet](#)

[MAX8511 datasheet](#)

[Color 15 click 2D and 3D files](#)

[Color 15 click schematic](#)

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