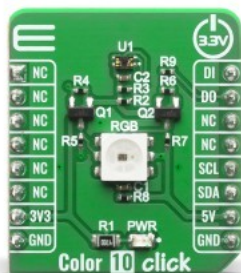


## Color 10 Click



PID: MIKROE-3997

**Color 10 Click** is carrying VEML3328 sensor for RGB and IR light sensing as well as the RGB diode incorporated on the board which makes it good color detection device when its combined with a white LED. The VEML3328 sensor senses red, green, blue, clear and IR light by incorporating photodiodes, amplifiers, and analog / digital circuits into a single CMOS chip. With this sensor, the brightness and color temperature of a display backlight can be adjusted based on the ambient light source, and it can differentiate indoor from outdoor lighting environments.

Color 10 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	Optical
Applications	Can be used for adjusting brightness and color temperature of a display backlight based on the ambient light source, and it can differentiate indoor from outdoor lighting environment, and many other applications
On-board modules	VEML3328, color sensor and signal conditioning IC
Key Features	16-bit resolution for each channel (R, G, B, C, and IR), low power consumption I 2 C (SMBus compatible) interface on board RGB light source for calibration and object color sensing.
Interface	GPIO,I2C
ClickID	No
Compatibility	mikroBUS
Click board size	S (28.6 x 25.4 mm)
Input Voltage	3.3V,5V

## Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click Boards™](#)

## Downloads

[Color 10 click example on Libstock](#)

[VEML3328 datasheet](#)

[Color 10 click 2D and 3D files](#)

[Color 10 click schematic](#)

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