Color 11 Click

PID: MIKROE-5894

Color 11 Click is a compact add-on board that provides an accurate color-sensing solution. This board features the TCS34083M, an ALS/color sensor with selective flicker detection from ams-OSRAM. The sensor features ambient light and color (RGB) sensing and flicker detection, which suppresses cross-coupling from 940nm IR if generated by adjacent circuits. The main benefits of this sensor are invisible ALS and color sensing under any glass type, unique fast ALS integration mode, and more. It features configurable programmable gain and integration time, tailored ALS and color response, ALS/color interrupt with thresholds, and many more. This Click board™ makes the perfect solution for the development of brightness management for displays, color management for displays, camera image processing, flicker-immune camera operation, and more.

Color 11 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	Color Sensing,Optical
Applications	Can be used for the development of brightness management for displays, color management for displays, camera image processing, flicker-immune camera operation, and more
On-board modules	TCS34083M - ALS/color sensor with selective flicker detection from ams-OSRAM
Key Features	Invisible ALS and color sensing under any glass type, unique fast ALS integration mode, integrated ambient light flicker detection on-chip, integrated status checking for all functions, low power consumption, programmable gain and integration time, tailored ALS and color response, and more
Interface	I2C
ClickID	Yes
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™](#)

[ClickID](#)

Downloads

[PCA9306 datasheet](#)

[AP2112 datasheet](#)

[Color 11 click example on Libstock](#)

[Color 11 click 2D and 3D files](#)

[Color 11 Click schematic](#)

[TCS3408 datasheet](#)

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).