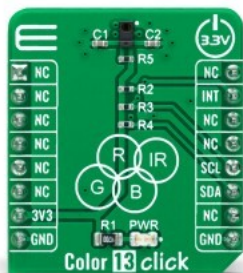


Color 13 Click



PID: MIKROE-4741

Color 13 Click is a compact add-on board that measures the subtlest changes in light. This board features the APDS-9999, I2C compatible RGB, proximity detector, and vertical-cavity surface-emitting laser (VCSEL) in one optical module from Broadcom Limited. The APDS-9999 uses four individual channels of red, green, blue, and IR in a specially designed matrix arrangement allowing optimal angular response and accurate RGB spectral response with high Lux accuracy over various light sources. It detects light intensity under multiple lighting conditions and through different attenuation materials, including dark glass configurable as ambient light and RGB sensor. This Click board™ is suitable for ambient light and color measuring, and proximity detection, allowing for maximum flexibility in applications.

Color 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	Color Sensing,Optical
Applications	Can be used for ambient light and color measuring, and proximity detection, allowing for maximum flexibility in applications
On-board modules	APDS-9999 - I2C compatible RGB, proximity detector, and vertical-cavity surface-emitting laser (VCSEL) in one optical module from Broadcom Limited
Key Features	Low power consumption, RGB and ambient light sensing, proximity detection, 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

Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click boards™](#)

Downloads

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

[APDS-9999 datasheet](#)

[Color 13 click schematic](#)

[Color 13 click example on Libstock](#)

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).