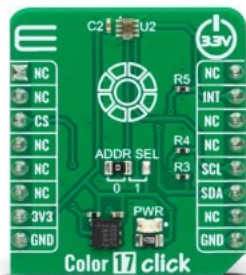


## Color 17 Click



PID: MIKROE-5702

**Color 17 Click** is a compact add-on board representing an accurate color-sensing solution. This board features the [OPT4048](#), a high-speed precision tristimulus XYZ color sensor from [Texas Instruments](#). The sensor has four sensing channels and uses precision optical filters to mimic the normal vision of the human eye. The OPT4048 also has 12 configurable conversion times that range from 600µs up to 800ms, with measurements that can be read synchronously or asynchronously. It is not excessively sensitive to micro-shadows and the small particles on the optical surface. This Click board™ makes the perfect solution for the development of applications for camera image correction, auto-white balancing, lighting control systems, building automation and control, or general display brightness and color adjustments.

Color 17 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 the development of applications for camera image correction, auto white balancing, lighting control systems, building automation and control, or general display brightness and color adjustments
On-board modules	OPT4048 - high-speed precision tristimulus XYZ color sensor from Texas Instruments
Key Features	Four channels for close mimic of the human eye spectra, high precision and resolution, built-in automatic full-scale light range selection, configurable conversion times, reject the NIR region, interrupt and hardware synchronized triggers, low power consumption, and more
Interface	I2C
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

[OPT4048 datasheet](#)

[Color 17 click schematic](#)

[Color 17 click 2D and 3D files](#)

[Color 17 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).

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [Daughter Cards & OEM Boards](#) category:*

*Click to view products by [MikroElektronika](#) manufacturer:*

Other Similar products are found below :

[MPC574XG-176DS](#) [SPC56ELADPT144S](#) [DM160216](#) [AIR FLOW CLICK](#) [ADC 19 CLICK](#) [MIKROE-3591](#) [STEPPER 20 CLICK](#) [DC MOTOR 26 CLICK](#) [ANNA-B412 CLICK](#) [LED DRIVER 19 CLICK](#) [6DOF IMU 20 CLICK](#) [TWO-WIRE ETH CLICK](#) [USB UART ISO CLICK](#) [ANGLE 10 CLICK](#) [AIR MOTION CLICK](#) [EXPAND 11 CLICK](#) [THERMO 26 CLICK](#) [CLICK SHIELD FOR NUCLEO-64](#) [DIGI ISOLATOR CLICK](#) [DIFF PRESS 4 CLICK](#) [GROVE BASE FOR XIAO](#) [HEADPHONE AMP 3 CLICK](#) [EEPROM 8 CLICK](#) [SMART BUCK 3 CLICK](#) [DC MOTOR 25 CLICK](#) [STEP DOWN 10 CLICK](#) [ESP8684 CLICK](#) [LP WIFI CLICK](#) [AMBIENT 22 CLICK](#) [GYRO 9 CLICK](#) [SHUTTER CLICK](#) [SMART DOF 3 CLICK](#) [UWB 3 CLICK](#) [A5000 PLUG&TRUST CLICK](#) [WIREPAS CLICK](#) [HOD CAP CLICK](#) [DC MOTOR 12 CLICK](#) [PWR METER 3 CLICK](#) [BAROMETER 12 CLICK](#) [SPI ISOLATOR 5 CLICK](#) [EXPANSION BASE FOR XIAO WITH GROVE OLED](#) [NANO GPS 3 CLICK](#) [DC MOTOR 23 CLICK](#) [CAN FD 7 CLICK](#) [NANO POWER 3 CLICK](#) [ROUND DISPLAY FOR XIAO](#) [LIGHTRANGER 11 CLICK](#) [RS485 8 CLICK](#) [NANOBEACON CLICK](#) [OPTO 7 CLICK](#)