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Color 16 Click

PID: MIKROE-5421

Color 16 Click is a compact add-on board providing an accurate color-sensing solution. This board features ams AG's AS7343, a 14-channel multi-purpose spectral sensor offering spectral response through a compatible I2C interface. It has a built-in aperture that controls the light entering the sensor array to increase accuracy, alongside precise optical filters integrated into standard CMOS silicon via deposited interference filter technology. The spectral response is defined by individual channels covering approximately 380nm to 1000nm with 11 channels centered in the visible spectrum, one near-infrared, and a clear channel. This Click board™ is suitable for reflective, transmissive, and emissive light applications.

Color 16 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 reflective, transmissive, and emissive light applications
On-board modules	AS7343 - multi-purpose spectral sensor from ams AG
Key Features	14 optical channels distributed over visible spectrum, near-infrared, and clear channel, dedicated functions such as flicker detection, high senistivity, fast measurements, low power consumption, interrupt, 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

Color 16 click example on Libstock

Color 16 click 2D and 3D files

Color 16 click schematic

AS7343 datasheet

SN74LVC1T45 datasheet

PCA9306 datasheet