

Spectrometer Click



PID: MIKROE-4165

Spectrometer Click features an 11-channel spectrometer for spectral identification and color matching applications. This Click board™ features the AS7341 from AMS-AG, whose spectral response is defined in the wavelengths from approximately 350nm to 1000nm. Control and Spectral data access are implemented through a serial I2C interface with very a low power consumption. AS7341 also integrates a dedicated channel to detect 50Hz or 60Hz ambient light flicker. It has many features that make it attractive for various applications such as spectral measurement, reflective object color detection, color measurement, and as ambient light flicker detection.

Spectrometer 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 spectral measurement, ambient light measurement, color measurement, display management.
On-board modules	AS7341
Key Features	11-Channel Spectral Sensor, 350nm to 1000nm spectral response, 50Hz or 60Hz ambient light flicker, 16-bit light-to-frequency converter
Interface	GPIO,I2C
ClickID	No
Compatibility	mikroBUS
Click board size	M (42.9 x 25.4 mm)
Input Voltage	3.3V or 5V

Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

Downloads

[Spectrometer click example on Libstock](#)

[Spectrometer click schematic](#)

[AS7341 IC datasheet](#)

[Spectrometer click 2D and 3D files](#)

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