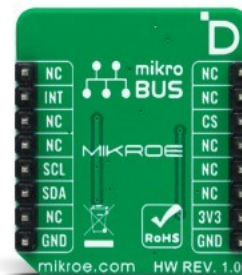


Ambient 21 Click



PID: MIKROE-5529

Ambient 21 Click is a compact add-on board used to measure the amount of the present ambient light. This board features ams [AG's TSL2591](#), a very-high sensitivity light-to-digital converter that transforms light intensity to a digital signal output capable of the direct I2C interface. It combines one broadband photodiode (visible plus infrared) and one infrared-responding photodiode on a single CMOS integrated circuit, providing a flexible and wide operating range of up to 88klx with an excellent responsivity close to the human eyes' response. The TSL2591 also has a programmable interrupt function and an integrated filter to reduce unwanted IR signals from the environment, improving lux accuracy across various light sources. This Click board™ is the most suitable for obtaining ambient light data in applications such as automatic residential and commercial lighting management.

Ambient 21 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 obtaining ambient light data in applications such as automatic residential and commercial lighting management
On-board modules	TSL2591 - light-to-digital converter from ams AG
Key Features	Low power consumption, corresponds to a dark window because of high sensitivity, close responsivity to the human eye, I2C interface, wide and flexible operational range, stable performance over temperature, 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

[Ambient 21 click 2D and 3D files](#)
[TSL2591 datasheet](#)
[Ambient 21 click schematic](#)
[Ambient 21 click example on Libstock](#)

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