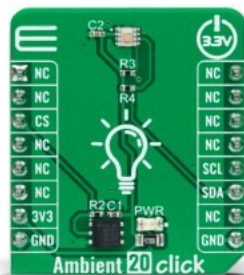


Ambient 20 Click



PID: MIKROE-5469

Ambient 20 Click is a compact add-on board used to measure the amount of the present ambient light. This board features the BU27030NUC, a 16-bit digital-output ambient light sensor with an I2C interface from [Rohm Semiconductor](#). The BU27030NUC has a flexible and wide operating range of up to 20klx with a maximum resolution of 0.0007lux/count, providing an excellent responsivity close to the human eyes' response. It also features inherent 50Hz/60Hz light noise rejection and excellent IR-cut characteristics for high robustness at high sensitivity. This Click board™ is the most suitable for obtaining ambient light data in applications such as automatic residential and commercial lighting management.

Ambient 20 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 applications such as automatic residential and commercial lighting management
On-board modules	BU27030NUC - ambient light sensor from Rohm Semiconducto
Key Features	Low power consumption, corresponds to a dark window because of high sensitivity, close responsivity to the human eye, I2C interface, wide 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 20 click example on Libstock](#)
[BU27030NUC datasheet](#)
[Ambient 20 click 2D and 3D files](#)
[Ambient 20 click schematic](#)

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).