Ambient 22 Click

PID: MIKROE-5647

Ambient 22 Click is a compact add-on board that measures the intensity of visible light. This board features the OPT3005, a single-chip lux meter from Texas Instruments that transforms light intensity to a digital signal output that can be directly communicated via an I2C interface. The sensor's spectral response tightly matches the human eye's photopic response along with extreme rejection to 850nm and 940nm infrared light over a wide angle of incidence. Measurements can be made from 20mlux up to 166klux without manually selecting full-scale ranges using the built-in, full-scale setting feature. This Click board™ is suitable for obtaining ambient light data in applications like display optical-intensity, industrial, or commercial lighting control.

Ambient 22 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.
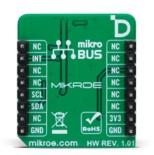
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Specifications

Type	Optical
Applications	Can be used for obtaining ambient light data in applications like display optical-intensity, industrial, or commercial lighting control
On-board modules	OPT3005 - single-chip lux meter from Texas Instruments
Key Features	Low power consumption, precision optical filtering to match human eye, corresponds to a dark window because of high sensitivity, I2C interface, wide and flexible operational range, effective dynamic range with automatic gain ranging, and more
Interface	I2C
ClickID	Yes
Compatibility	mikroBUS
Click board size	S (28.6 x 25.4 mm)
Input Voltage	3.3V

Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click boards™](#)

[ClickID](#)

Downloads

[Ambient 22 click example on Libstock](#)

[Ambient 22 click 2D and 3D files](#)

[OPT3005 datasheet](#)

[Ambient 22 click schematic](#)