

Time-saving embedded tools

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Ambient 23 Click





PID: MIKROE-5701

Ambient 23 Click is a compact add-on board that measures the intensity of visible light. This board features the <u>VEML3235SL</u>, an advanced ambient light sensor designed by the CMOS process from <u>Vishay Semiconductors</u> that transforms light intensity to a 16-bit digital signal output that can be directly communicated via an I2C interface. The VEML3235SL has a flexible and wide operating range of up to 17.867lx with a maximum resolution of 0.0021lux/count, providing excellent responsivity close to a human eyes' response. It also has excellent temperature compensation and provides Software shutdown mode, which reduces its power consumption. This Click board[™] is suitable for various applications, including handheld and consumer gadgets, industrial and medical equipment, computing systems, and more, providing real-time information about the surrounding environment to enhance operational efficiency and user experience.

Ambient 23 Click is supported by a <u>mikroSDK</u> compliant library, which includes functions that simplify software development. This <u>Click board</u> comes as a fully tested product, ready to be used on a system equipped with the <u>mikroBUS</u> 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).



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Specifications

Туре	Optical
Applications	Can be used for various applications, including handheld and consumer gadgets, industrial and medical equipment, computing systems, and more
On-board modules	VEML3235SL - ambient light sensor from Vishay Semiconductors
Key Features	Low power consumption, high sensitivity, high accuracy, I2C interface, excellent temperature compensation, high dynamic detection resolution, software shutdown mode control, and more
Interface	12C
Compatibility	mikroBUS
Click board size	S (28.6 x 25.4 mm)
Input Voltage	3.3V

Resources

<u>mikroBUS</u>™

<u>mikroSDK</u>

Click board[™] Catalog

Click boards[™]

Downloads

Ambient 23 click example on Libstock

VEML3235SL datasheet

Ambient 23 click 2D and 3D files

Ambient 23 click schematic

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