

Ambient 18 Click



PID: MIKROE-4943

Ambient 18 Click is a compact add-on board used to sense the amount of the present ambient light. This board features the BH1680FVC, an analog current-output ambient light sensor from Rohm Semiconductor. The BH1680FVC can detect a wide range of illuminance up to 10klx and provides excellent responsivity close to the human eyes' response. Besides, it is also characterized by low sensitivity variation across various light sources, a built-in shutdown function, and the ability to process the output signal in analog or digital form. This Click board™ is the most suitable for obtaining ambient light data for adjusting brightness in applications that require power saving and better visibility.

Ambient 18 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 for adjusting brightness in applications that require power saving and better visibility
On-board modules	BH1680FVC - analog current-output ambient light sensor from Rohm Semiconductor
Key Features	Low power consumption, close responsivity to the human eye, good output linearity across wide illumination range, low sensitivity variation across various light sources, stable performance over temperature and voltage, possibility of signal processing in analog and digital form, and more
Interface	Analog,GPIO,I2C
ClickID	No
Compatibility	mikroBUS
Click board size	S (28.6 x 25.4 mm)
Input Voltage	3.3V or 5V

Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click Boards™](#)

Downloads

[Ambient 18 click 2D and 3D files](#)

[MCP3221 datasheet](#)

[BH1680FVC datasheet](#)

[Ambient 18 click schematic](#)

[Ambient 18 click example on Libstock](#)

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