MIKROELEKTRONIKA D.O.O, Batajnički drum 23, 11000 Belgrade, Serbia
VAT: SR105917343 Registration No. 20490918
Phone: + 381 11 78 57 600 Fax: + 381 11 63 09 644 E-mail: office@mikroe.com
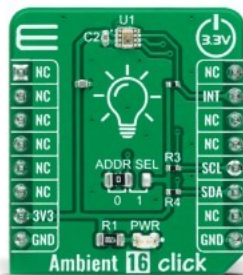www.mikroe.com

Ambient 16 Click

PID: MIKROE-4933

Ambient 16 Click is a compact add-on board used to measure the amount of the present ambient light. This board features the BH1726NUC, a 16-bit digital-output ambient light sensor with an I2C interface from Rohm Semiconductor. The BH1726NUC can detect a wide range of illuminance up to 30klx and provides excellent responsivity close to the human eyes' response. It is designed to control the brightness in various applications based on ambient light availability, brightness for optimum visibility, and energy efficiency. Operation in a temperature range of -40°C to 85°C ensures stable operation under extreme conditions. 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 16 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.

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	BH1726NUC - 16-bit digital-output ambient light sensor from Rohm Semiconductor
Key Features	Low power consumption, corresponds to a dark window because of high sensitivity, close responsivity to the human eye, I2C interface with selectable slave address, wide illumination range, stable performance over temperature and voltage, and more
Interface	I2C
ClickID	No
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 16 Click schematic

BH1726NUC datasheet

Ambient 16 click 2D and 3D files

Ambient 16 click example on Libstock