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Heart Rate 2 Click

PID: MIKROE-4037

Heart Rate 2 Click is an add-on board based on MAXM86161 from Analog Devices a complete, integrated, optical data acquisition system, ideal for optical pulse oximetry and heart-rate detection applications. The optical readout has a low-noise signal conditioning analog front-end (AFE), including 19-bit ADC, an industry-lead ambient light cancellation (ALC) circuit, and a picket fence detect and replace algorithm. It also includes high-resolution optical readout signal processing channels with robust ambient light cancellation and high-current LED driver DACs to form a complete optical readout signal chain.

Heart Rate 2 Click board™ 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	Biometrics,Heart Rate
Applications	Ideal solution for the development of various wearable health-related devices, Optimized for In-Ear Applications, Miniature Package for Mobile Applications
On-board modules	MAXM8616 - Single-Supply Integrated Optical Module for HR and SpO2 Measurement
Key Features	Complete Single-Channel Optical Data Acquisition System, Built-In Algorithm Further Enhances Rejection of Fast Ambient Transients, Optimized Architecture for Reflective Heart Rate and SpO2 Monitoring...
Interface	I2C
Compatibility	mikroBUS
Click board size	S (28.6 x 25.4 mm)
Input Voltage	3.3V,5V

Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click boards™](#)

Downloads

[Heart Rate 2 click example on Libstock](#)

[Heart Rate 2 click 2D and 3D files](#)

[MAXM86161 datasheet](#)

[Heart Rate 2 click schematic](#)

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