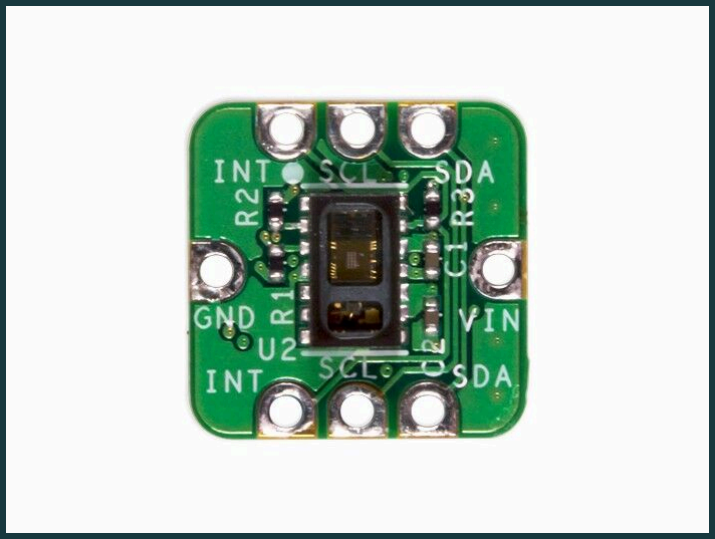
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INDUSTRIAL PRODUCT DATASHEET

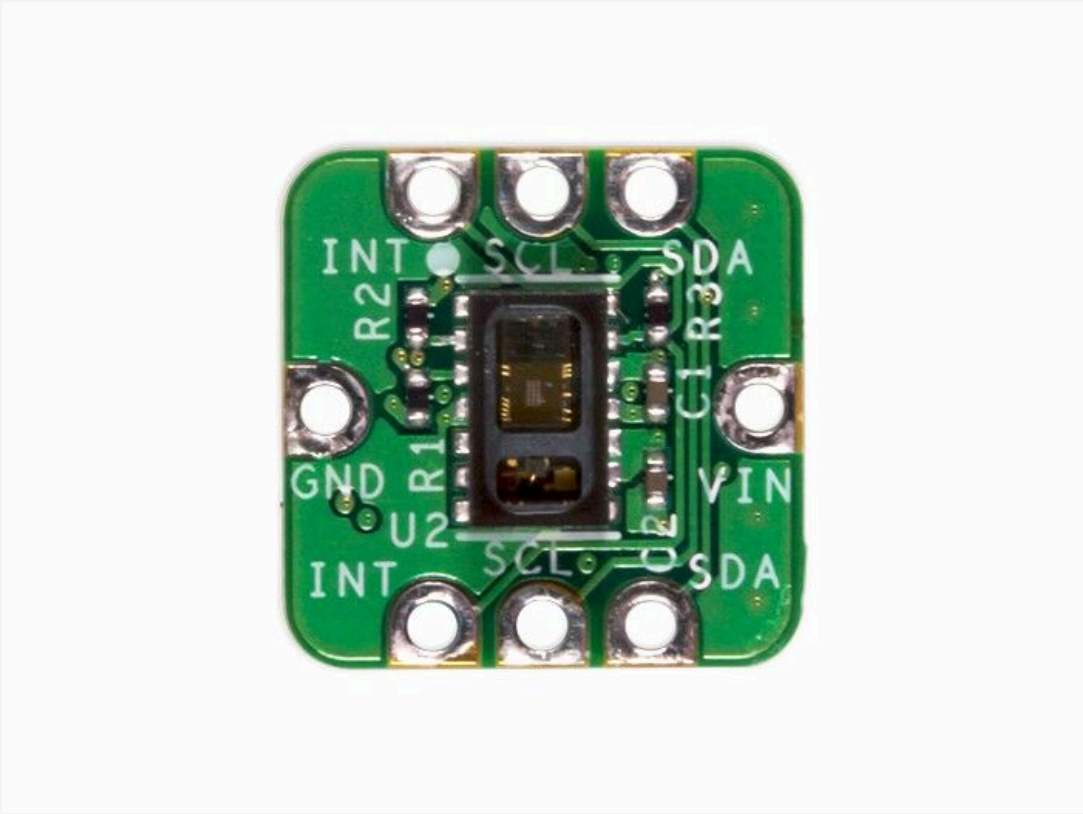
High-Sensitivity Pulse Oximeter and Heart-Rate Sensor for Wearable Health-based on heart-rate/SpO2 sensor (MAX30102)-Low-Power&High-Intergration

This module is a low-power, optical heart-rate module complete with integrated red and IR LEDs, and a power supply.

SKU	UPDATED	PRICE
102990649	2026-11-11 07:56:08	$22.00(Excl. VAT)



Overview



This module is a low-power, optical heart-rate module complete with integrated red and IR LEDs, and a power supply. It utilizes the heart-rate/SpO2 sensor (MAX30102) which is perfect for wearable projects, and may be placed on a finger or earlobe to accurately detect heart rate.

Key Features

01 **Robust Performance**

Heart-Rate Monitor and Pulse Oximeter Biosensor in LED Reflective Solution with -40°C to +85°C Operating Temperature Range

02 **Highly integrated**

A 60mm x100mm x7.7mm small-design sensor with integrated red and IR LEDs, and a power supply.

03 **Non-chest-based heart-rate/SpO2 detection**

Can be placed on a finger or earlobe to accurately detect heart rate.

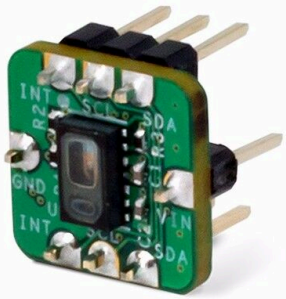
04 **Ultra-low power consumption**

The entire design typically operates at less than 5.5mW

05 **High compatibility**

Firmware is available for both Arduino and mbed platforms, enabling users to develop with virtually any platform

Product Gallery



Applications

- **Wearables Devices**
- **Heart-rate monitor**
- **Pulse oximeter**
- **Fitness Assistant Devices**
- **Smartphones**
- **Tablets**

Resource Links

- https://www.seeedstudio.com/MAXREFDES117-HEART-RATE-AND-PULSE-OXIMETRY-MONITOR-p-2762.html

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