

MAX30102 Heart Rate And Oximeter Sensor

SEN0344

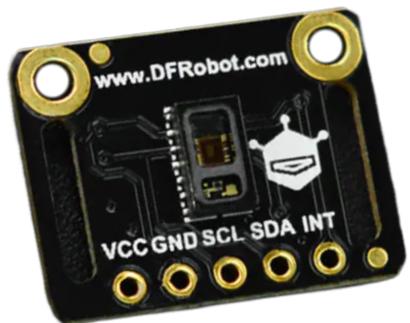
Product Overview

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Description

DFRobot MAX30102 Heart Rate and Oximeter Sensor uses the MAX30102 integrated pulse oximetry and heart-rate monitor biosensor module. The MAX30102 uses PhotoPlethysmoGraphy (PPG) to measure data, and can be worn on a finger or wrist for data collecting. This sensor supports I²C data output, which could be compatible with most controllers.



The MAX30102 Heart Rate and Oximeter Sensor features 3.3V to 5V power supply range, <5mA working current, and operates at -40°C to 85°C temperature range. This sensor is used in the heart rate measurement and SPO2 detection.

Features

- Extremely low standby current
- High sampling rate
- High SNR

Specifications

- 3.3V to 5V power supply range
- <5mA working current
- 0x57 I²C address
- -40°C to 85°C operating temperature range
- 18mm x 14mm/0.71" x 0.55" dimensions

Applications

- Heart rate measurement
- SPO2 detection

Mouser Part Number

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To learn more, visit <https://www.mouser.com/new/dfrobot/dfrobot-max30102-sensor/>