

The MAX30102 is an advanced sensor module designed for tracking heart rate and blood oxygen levels (SpO<sub>2</sub>). Manufactured by Maxim Integrated, it combines pulse oximetry and heart rate monitoring ...

This optical heart rate sensor module includes I2C and SPI digital interfaces, a pro-programmable-event interrupt output, an analog-to-digital converter, host communications processor, four integrated LED ...

The MAX30102 is an integrated pulse oximetry and heart-rate monitor biosensor module. It includes internal LEDs, photodetectors, optical elements, and low-noise electronics with ambient light rejection.

Heart Rate 11 Click is a compact add-on board suitable for heart rate monitoring applications. This board features the OB1203, a multi-channel light sensor (LS/CS), a proximity sensor (PS), and a ...

Featuring light level sensing, an RGB LED for customizable interaction, and support for extended sensors/actuators, it provides next-level sensing for more responsive automation. With the XIAO ...

Explore health monitoring systems using LEDs and photodiodes for heart rate and SpO<sub>2</sub> measurement, covering system architecture, key components, and principles.

The PulseSensor Heart Rate Sensor is an easy to use finger-tip heart rate detector module with built-in noise filter and signal amplification. If you look closely at the module, you will see ...

ROHM's heart rate sensor IC significantly reduces the effects of ambient light such as IR and red rays by adopting an optical filter in the sensor block optimized for pulse wave detection. This makes it ...

Featuring light level sensing, an RGB LED for customizable interaction, and ...

This single-channel optical module outputs green light analog signals to test the heart rate function. Besides, it also allows users to adjust the green light's rate of change of respiratory signals in PPG ...

With the appropriate algorithm, it can determine human heart rate, blood oxygen saturation (SpO<sub>2</sub>), respiration rate and heart rate variability (a measure of stress). The OB1203 integrates all light ...

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