

## Mini Heart Rate Unit (MAX30100)

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### Description

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**HEART** is build with **MAX30100**.

MAX30100 is a complete pulse oximetry and heartrate sensor system solution designed for the demanding requirements of wearable devices. The MAX30100 provides very small total solution size without sacrificing optical or electrical performance. Minimal external hardware components are needed for integration into a wearable device.

- How do we use this Unit to test the heart rate ? **Put your finger on the detection area.**
- What is the communication protocol between M5 core and this unit? **I2C(0x57).**

## Product Features

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- Programmable Sample Rate and LED Current for Power Savings
- Ultra-Low Shutdown Current (0.7 $\mu$ A, typ)
- Advanced Functionality Improves Measurement Performance
- High Sample Rate Capability
- Fast Data Output Capability
- GROVE interface
- Software Develop platform: Arduino
- Two Lego-compatible holes

## Include

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- 1x HEART Unit
- 1x Grove Cable

## Specification

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Resources	Parameter
communication protocol	IIC : 0x57
Operating Voltage	1.8V-3.3V
net weight	5g
Gross weight	18g
Product Size	32*24*8mm
Package Size	67*53*12mm