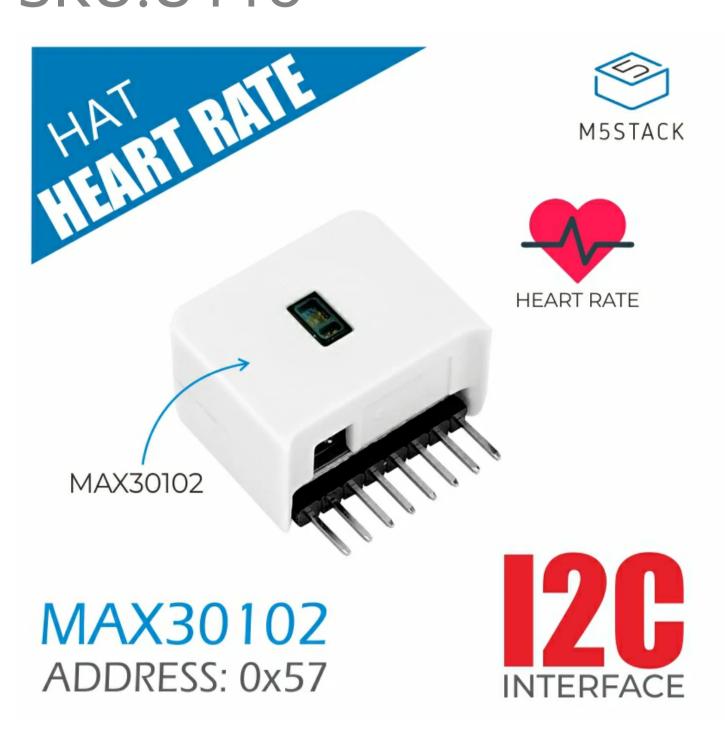
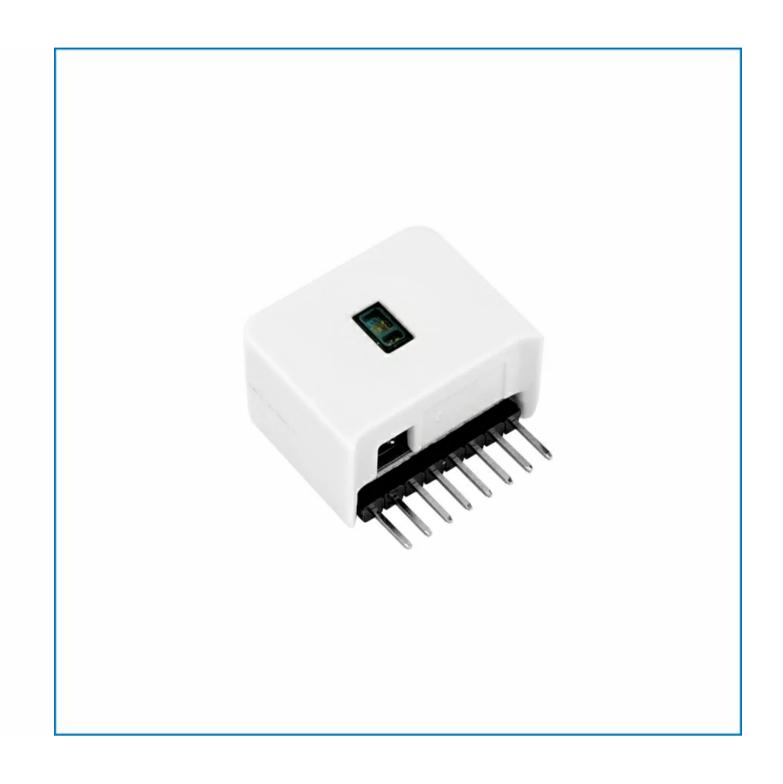
# HEART RATE HAT

#### SKU:U118







### Description

HEART RATE HAT is a blood oxygen heart rate sensor. Integrate MAX30102 to provide a complete pulse oximeter and heart rate sensor system solution. This is a non-pluggable blood oxygen heart rate sensor. The sensor uses I2C communication interface, internally integrates infrared light-emitting diodes, photodetectors, optical components and lownoise electronic equipment. A certain amount of ambient light suppression function can make the measurement results more accurate.

Instructions: After the program is running, place your finger on the test area with a stable and fixed pressure.

#### Product Features

- Heart rate monitor and pulse oximeter sensor
- LED reflective solutions
- Integrated protective glass, sturdy and durable performance
- Programmable sampling rate and LED current
- Fast data output capability
- High sampling rate
- Strong elasticity of motion artifacts
- High signal-to-noise ratio

#### Include

- 1x HEART RATE HAT
- 1x Double-sided tape

## Applications

- Wearable device
- Heart rate blood oxygen collector
- Smart Medical

### Specification

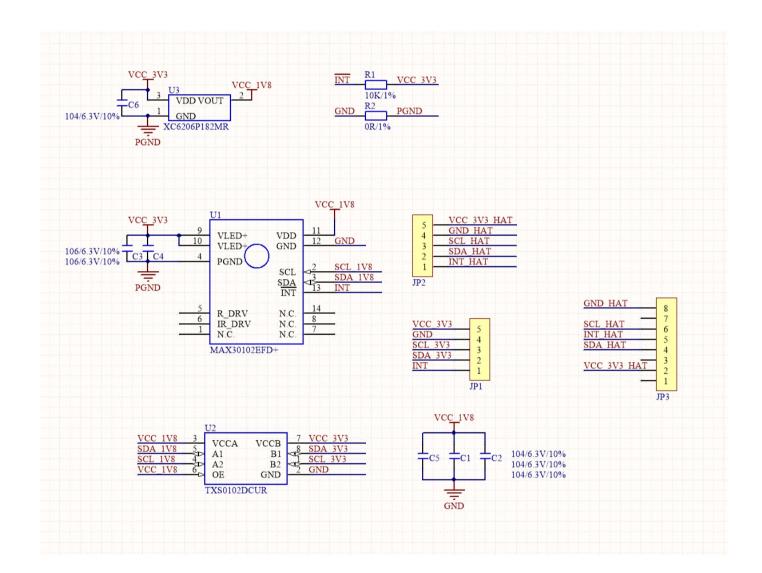
Resources	Parameter		
Sensor model	MAX30102		
Communication protocol	I2C: 0x57		
Operating Voltage	3.3V		
Net weight	5.1g		
Gross weight	12.7g		
Product Size	25*24*14mm		
Package Size	40*40*30mm		
Case Material	Plastic (PC)		

#### Related Link

### PinMap

M5StickC	GPIO26	GPI00	3.3V	GND
HEART RATE HAT	SCL	SDA	3.3V	GND

### Schematic



### Example

#### Arduino

Arduino Example Code / M5StickC Plus with HEART RATE HAT

