HEART

SKU:U029





Description

HEART is built using the MAX30100 chipset.

MAX30100 is a complete pulse oximetry and heart-rate 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

- Programmable Sample Rate and LED Current for Power Savings
- Ultra-Low Shutdown Current (0.7µA, 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

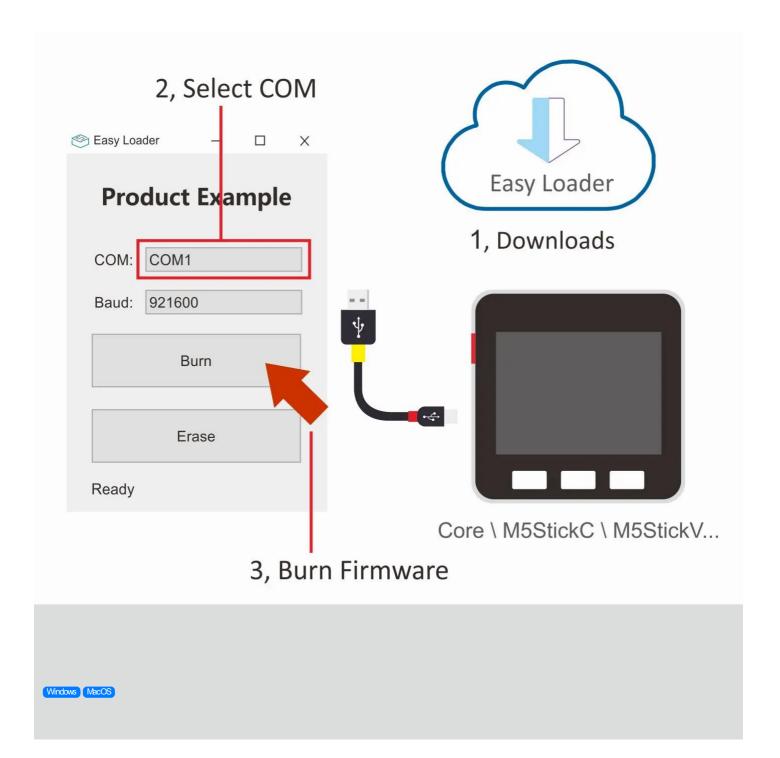
- 1x HEART Unit
- 1x Grove Cable

Specification

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

EasyLoader

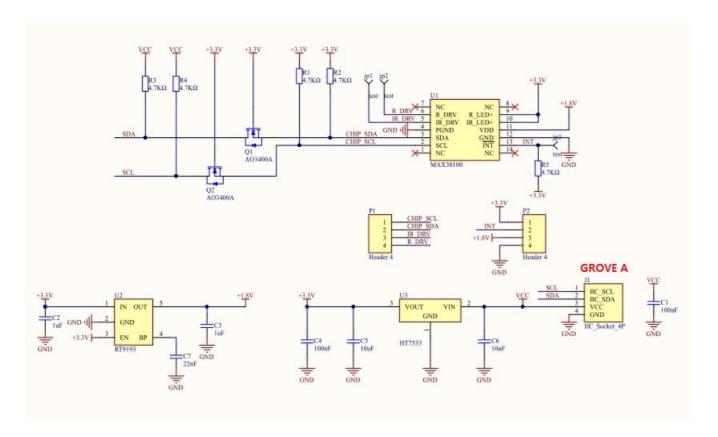
EasyLoader is a concise and fast program writer, which has a built-in case program related to the product. It can be burned to the main control by simple steps to perform a series of function verification. Please install the corresponding driver according to the device type. M5Core host Please click here to view the CP210X driver installation tutorial, M5StickC/V/T/ATOM series can be used without driver)



Related Link

- Datasheet
 - MAX30100
 - MAX30100lib

Schematic

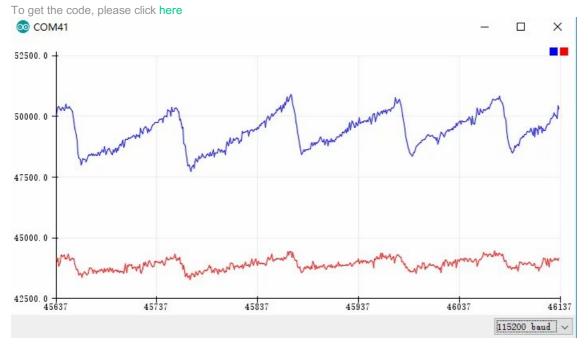


PinMap

M5Core(GROVE A)	GP1022	GPIO21	5V	GND	
HEART Unit	SCL	SDA	5V	GND	

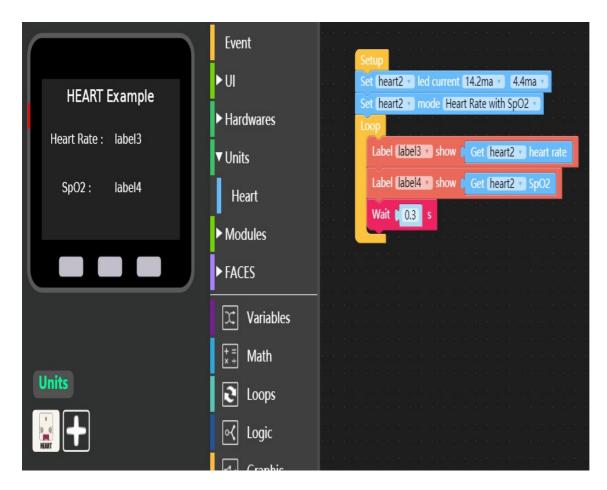
Example

1. Arduino



2. UIFlow

• Click here to download the UIFlow example



Last updated: 2020-12-11