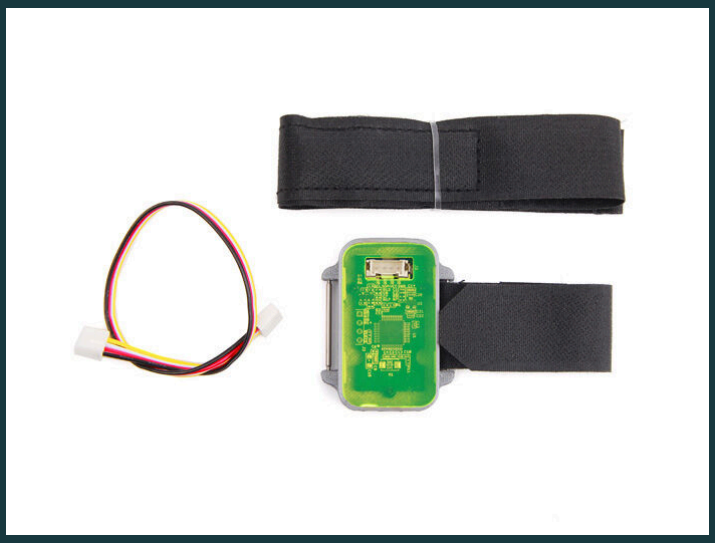
seeed studio

INDUSTRIAL PRODUCT DATASHEET

Grove - Finger-clip Heart Rate Sensor with shell

Grove - Finger-clip Heart Rate Sensor with shell is a low-power optical heart rate detection module with I2C interface, STM32, and included bandages and 3D printing shell for finger or arm testing.

SKU	UPDATED	PRICE
101020082	2026-10-09 08:09:17	$26.40(Excl. VAT)



Overview



The Grove - Finger-clip Heart Rate Sensor with shell is based on the PAH8001EI-2G optical sensor with integrated Green LED and DSP, measuring variations in human blood movement in vessels. It features ultra-low power consumption, a flexible power saving mode, I2C interface, an integrated STM32 with SWD interface for reprogramming, and includes two bandages and a 3D printing shell for finger or wrist testing.

Key Features

Grove - Finger-clip Heart Rate Sensor with shell shell is based on PAH8001EI-2G, a high performance and low power CMOS-process optical sensor with Green LED and DSP integrated serving as a Heart Rate Detection(HRD) sensor. This module is based on optical technology which measures the variation human blood movement in the vessel. Low power consumption and flexible power saving mode make it suitable for wearable device. Cause the heart rate sensor chip need high processing speed for the algorithm of heart rate data, this module integrate a STM32, reserved SWD interface allow users to reprogram the STM32. This module also provide tow bandages and 3D printing shell for finger test and arm test.

Features

- Ultra-low power consumption power saving mode during time of no touch movement
- With tow bandages and 3D printing shell
- I2C standard interface
- Intergrated chip-on-board LED with wavelength of 525nm
- Suitable for finger or wrist

Part list

- 1 x Grove - Finger-clip Heart Rate Sensor
- 1 x Finger-clip Heart Rate Sensor shell
- 1 x Bandage for finger
- 1 x Bandage for arm
- 1 x 26AWG Grove Cable

Specification

- Working Voltage: 5V
- SWD Interface
- Low Power
- Control Mode: IIC
- Operating Temperature: -20 ~ +60℃

Product Gallery







Part List

Grove - Finger-clip Heart Rate Sensor	1
Finger-clip Heart Rate Sensor shell	1
Bandage for finger	1
Bandage for arm	1
26AWG Grove Cable	1

Compliance & Logistics



HSCODE	9031809090
USHSCODE	9031808085
UPC	841454108412
EUHSCODE	9013101000
COO	CHINA

Resource Links

- https://www.seeedstudio.com/Grove-Finger-clip-Heart-Rate-Sensor-with-shell.html
- Grove - Finger-clip Heart Rate Sensor bin file
- Grove - Finger-clip Heart Rate Sensor eagle file

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