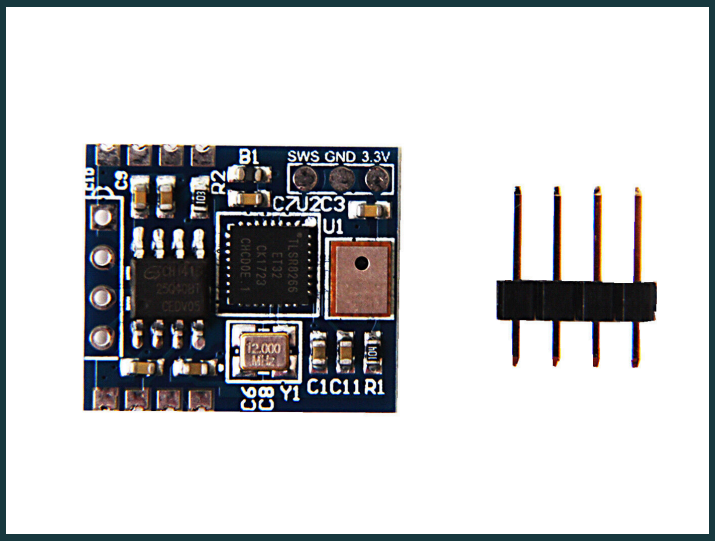
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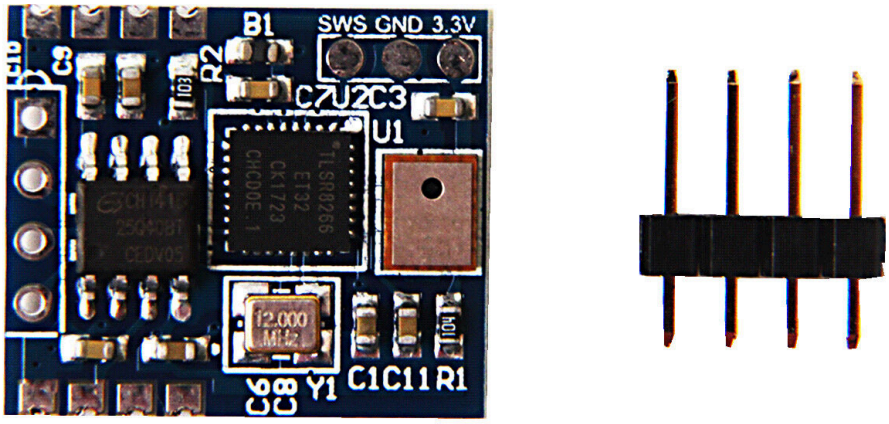
Heelight Core

Heelight Core: A 20x17mm sound sensor that detects 500+ digital sound commands for device control up to 10m via UART, without requiring Wi-Fi or Bluetooth.

SKU	UPDATED	PRICE
102991005	2025-11-03 08:28:52	$8.90(Excl. VAT)



Overview



The Heelight Core is a smart sound sensor module that recognizes 500+ digital sound commands, enabling IoT control without Wi-Fi or Bluetooth. It has a tiny 20x17mm size, UART output (9600 baudrate), a 10m control distance, and is designed for breadboard prototyping or direct PCBA integration.

Key Features

When we are talking about IoT, what would you think of? Normally, Zigbee, Wi-Fi, BLE, LoRa or others wireless communication technology will appear in our minds.

Here we would like to introduce a totally new and much more interesting way of IoT, the sound. There are many ways to play with sound, the most popular must be voice recognition, however this time we will not talk about voice recognition, we want to introduce a digital recognition device to you.

Heelight Core is a smart sound sensor that can recognize up to 500+ digital voice commands. It was originally used on the Heelight – a smart colorful bulb that can be controlled by digital sound waves. Now we introduce this sensor into the small and neat modules, allow you to control things via digital sound.

Heelight Core is tiny size, only 20mm*17mm. By using the design of the stamp hole, you can easily integrate heelight core into your product. We also provide the component library in Eagle format. And there is a 4-pin header, which can insert to a bread board directly to build a prototype.

So what are the advantages of digital sound control?

- The operation is simple, as long as a device can make a sound, you don't need to connect Wi-Fi or Bluetooth
- There is no compatibility issues. Compare to Bluetooth, WiFi, zigbee, sound is more common.

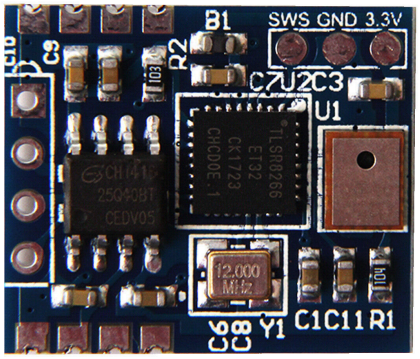
Features

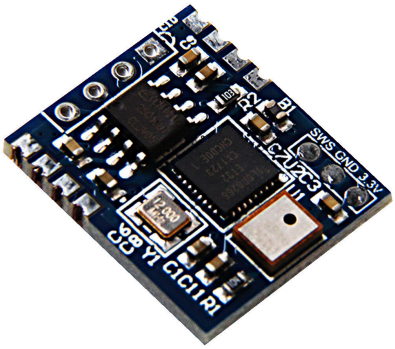
- Small Size: 20x17mm
- 500+ sound commands
- Android/iOS App
- Bread board or intrtged into PCBA
- 10m control distance
- UART output, default 9600 baudrate

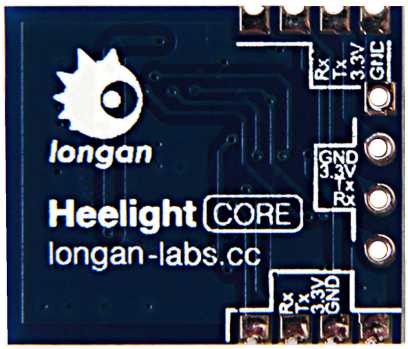
Note

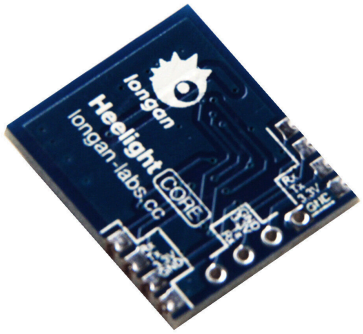
This product was designed by **Longan Labs**, Please feel free to contact *joney.sui@longan-labs.cc* if you need techsupport.

Product Gallery









Part List

Heelight Core	1
4 pin male header	1

Compliance & Logistics



HSCODE	8518900090
USHSCODE	8518902000
EUHSCODE	8517180000
COO	CHINA

Resource Links

- https://www.seeedstudio.com/Heelight-Core-p-2934.html
- APP - Android
- APP - iOS
- Eagle Library of Heelight Core
- Heelight Relay
- 500+ Digital Voice Audio

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