

PRODUCT MANUAL

1. Product Information

Product Name: MS3625 Omnidirectional Microphone Module I2S Interface MEMS High-Precision Compatible with INMP441 Not Welding

Product Description: This sensor is a high performance, low power, digital output, omnidirectional MEMS microphone with bottom port. Compatible with INMP441.

Consists of a MEMS sensor, signal composition modulation, analog-to-digital converter, anti-aliasing filter, power management and industry standard 24-bit I2S interface. The I2S interface allows it to connect directly to digital processors such as DSPs and microcontrollers without the use of audio codecs used in the system. With a high signal-to-noise ratio, it is an excellent choice for near-field applications. With flat broadband frequency response, resulting in natural sound with high definition.

Main features:

Digital I2S interface with high precision 24-bit data

High SNR of 61 dBA

High sensitivity -26 dBFS

Stable frequency response from 60 Hz to 15 kHz

Low power consumption: Low current consumption of 1.4 mA

High PSR: -72 dBFS

Interface definition:

SCK: Serial data clock for the I2S interface

WS: Serial data word selection for the I2S interface

L/R: Left/right channel selection:

Set to low power level, the microphone outputs a signal in the left channel of the I2S frame.

Set to high power level, the microphone outputs a signal in the right channel.

SD: Serial data output for the I2S interface

VCC: Input power, 1.6V to 3.6V

GND: Power source

Connect to ESP32 development board:

This module - ESP32 development board

SCK -- GPIO14

SD -- GPIO32

WS -- GPIO15

L/R -- GND

GND -- GND

VDD -- VDD3.3

Color: Black

Material: PCB

Specification: Unwelded

Package Contents:

1 * MS3625 Omnidirectional Microphone Module

Only the above package content, other products are not included.

Note: Light reflection and different displays may cause the color of the item in the picture a little different from the real thing. The measurement allowed error is +/- 1-3cm.

2. MANUFACTURER & EU REPRESENTATIVE INFO

Manufacturer: Nanchang xiran electronic commerce co., ltd, Room 4280, Building 1, No.5 Changnanyuan Fifth Road, Changnan Industrial Park, qingyunpu district, Nanchang City, Jiangxi Province (in Changnan Industrial Park, Jiangxi Province) Code: 330000.

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3. Safety & Warnings

Warning!

- This product is only for adult use.
- Please keep out of reach of children and pets to avoid accidental injury or ingestion.
- Check if the installation is correct.
- If there is abnormal noise or equipment error after installation, please stop the device immediately.
- Follow all instructions for proper use; Misuse may cause harm.
- Please store in a dry and shady place, away from high temperatures, humidity, and direct sunlight.

4. Instructions for Use

- Before First Use: Ensure the product is free from any damage.
- After Use: Store the product in a dry place and keep away from children.

