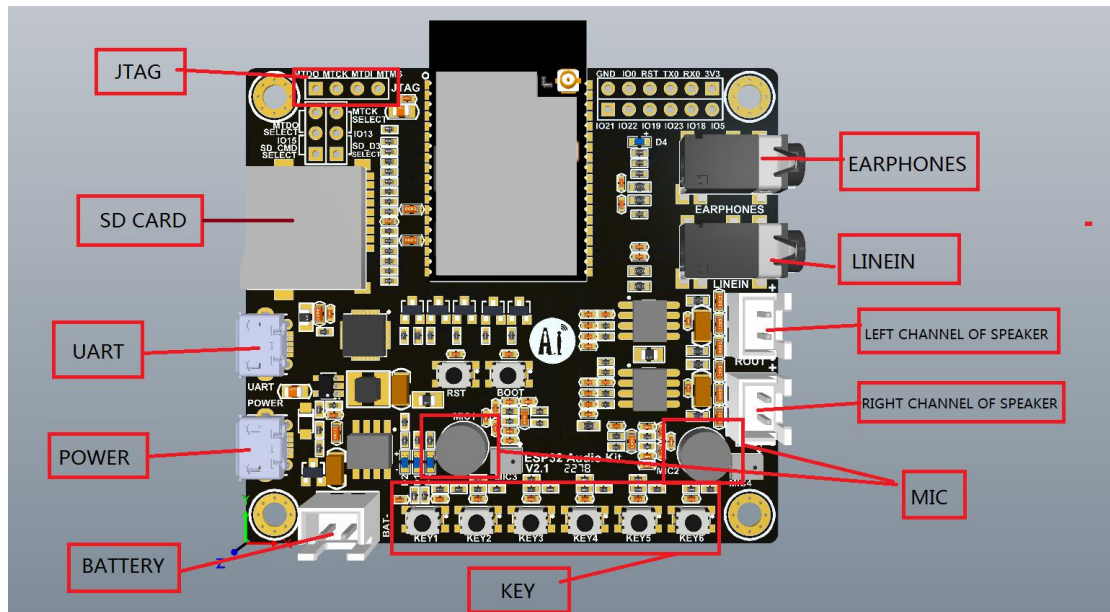


ESP32-Audio-kit



This user guide describes how to start using the ESP32-Audio-kit development board.

What do you need

- 1 ESP32-Audio-kit development board
- 1 micro USB cable
- 1 PC with Windows, Linux or Mac OS system

Overview

ESP32-Audio-kit is a small audio development board developed by Ai-Thinker based on the ESP32-A1S module. Most audio peripherals are distributed on both sides of the development board. It supports TF card, headphone output, two microphone inputs and two speaker outputs. . It is convenient for developers to develop quickly.

Function description

earphone port (earphone)

Insert the 3.5mm headphone jack to support left and right channel output.

left channel of speaker/right channel of speaker

Support the maximum output of 4Ω3W speaker output, while supporting dual-channel output.

SD card

Maximum support 64G SD card read and write

Key (KEY)

Support 6-channel key input, default access method below the factory

NAME	I0
KEY1	I036
KEY2	I013
KEY3	I019
KEY4	I023
KEY5	I018
KEY6	I05

You can modify the circuit button AD input.

Microphone

Two analog microphones, each as audio input

Headset Input (LINEIN)

Support headset microphone input

Lithium battery (battery)

Support 3.7V lithium battery input

Power input (POWER)

Maximum support 5V2A power input, support simultaneous lithium battery charging.

Serial port (UART)

Support micro usb serial port input and output, maximum support 921600 baud rate

Download button (BOOT)

Please pull down when downloading. Since IO0 provides the codec clock, please do not press it when the program is running normally, otherwise it will affect the codec work

(The factory contains default firmware, if you need to burn the default firmware, you can click the compressed package at the bottom of the page to download)

Reset button (EN)

Press this button to reset the system

Power supply mode

1. Micro USB port 5V/2A
2. Lithium battery powered

Data download

SDK download

[SDK example](#)

ESP-ADF API documentation

[ESP-ADF document](#)

Schematic download

[Schematic download](#)

Example

Please refer to the Ai-example example in ESP-ADF for specific usage tutorials