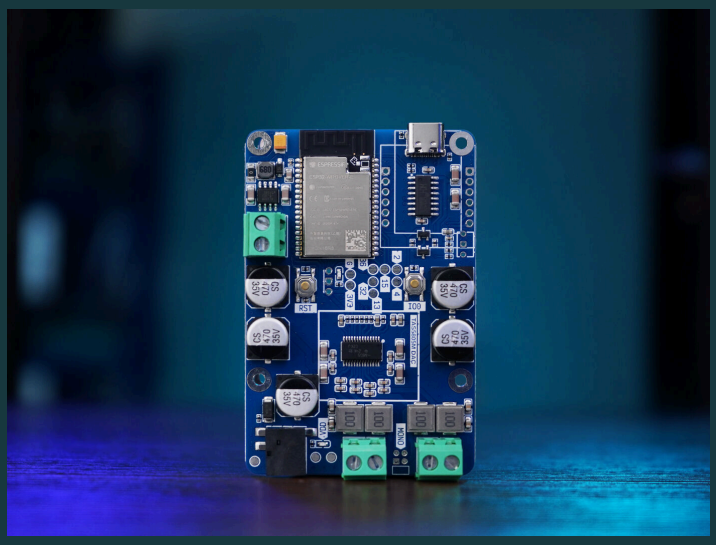
seeed studio

INDUSTRIAL PRODUCT DATASHEET

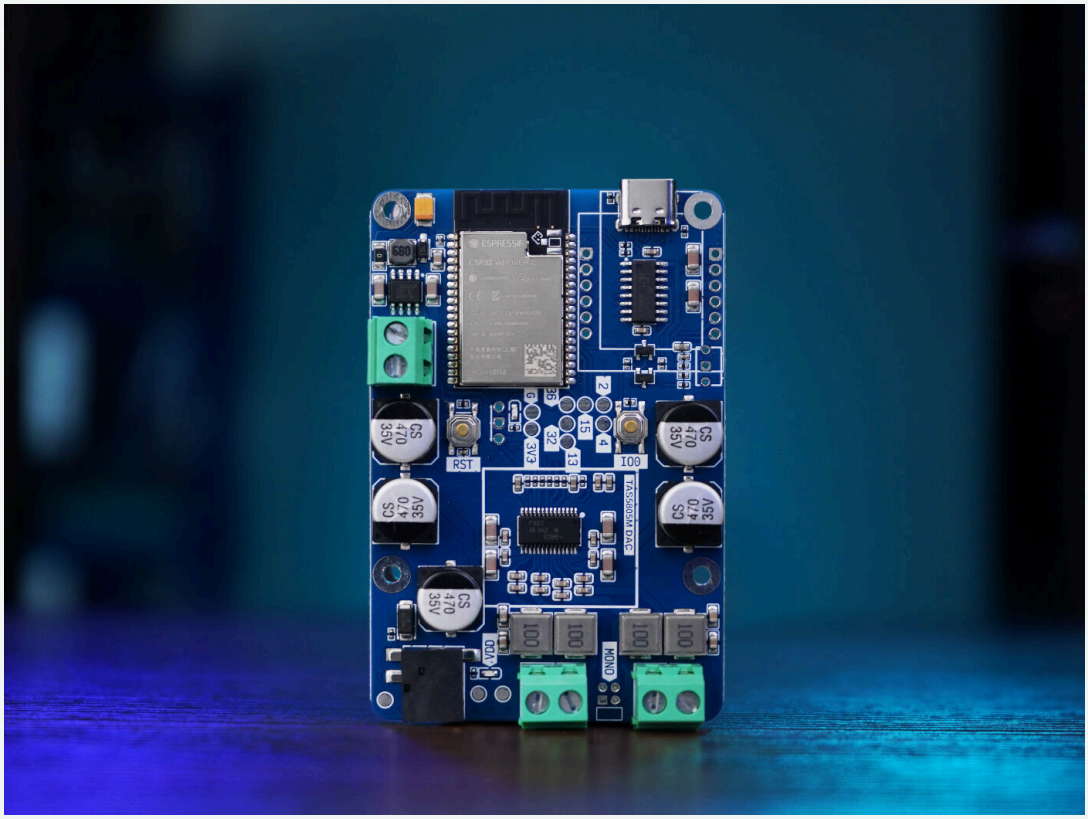
Louder ESP32, ESP32 audio development board with TAS5805M I2S DAC, driving 2x 23W load (8Ω, 1% THD+N)

[image] Louder-ESP32 combines ubiquitous ESP32 with an I2S DAC with built-in D-class amplifier capable of driving full-size speakers.

SKU	UPDATED	PRICE
102991934	2026-11-11 06:36:40	$24.00(Excl. VAT)



Overview



[image] Louder-ESP32 combines ubiquitous ESP32 with an I2S DAC with built-in D-class amplifier capable of driving full-size speakers. This combination provides your compact ESP32 module with the necessary memory and RAM capabilities to develop Hi-Fi products.This product is a co-create collaboration with Seeed Studio and Sonocotta.

Key Features

01 **High-Quality Audio Output**

The Louder ESP32 features a TAS5805M stereo I2S DAC with a built-in D-Class amplifier, delivering up to 2x 32W at 4Ω and 2x 22W at 8Ω, perfect for driving home stereo speakers.

02 **Enhanced Memory Capabilities**

Equipped with a PSRAM chip, this device provides increased memory for running complex audio applications and ensuring seamless performance for Hi-Fi audio development.

03 **Compact Design**

Measuring 85.6 mm x 56.5 mm, it's easy to integrate into smaller audio projects and fits Raspberry Pi 3/4 cases, ideal for portable audio solutions.

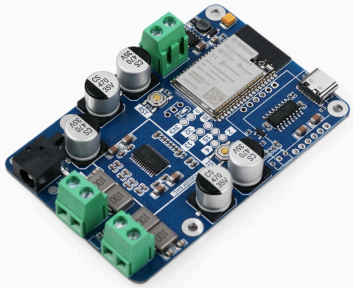
04 **Rapid Prototyping Friendly**

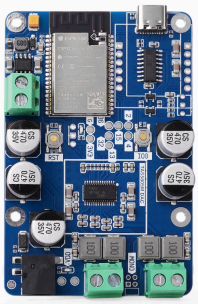
With straightforward programming and setup, the Louder ESP32 allows for quick iteration in prototype development, enabling users to test and refine their Hi-Fi audio projects rapidly.

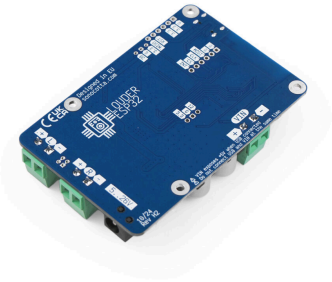
05 **User-Friendly Integration**

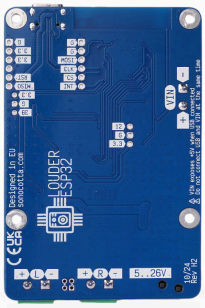
This device is compatible with Squeezelite-ESP32 and supports HomeAssistant, streamlining the process for hobbyists and developers to create advanced audio applications without extensive technical expertise.

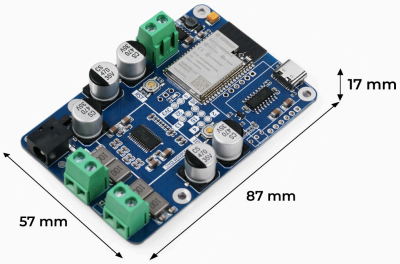
Product Gallery



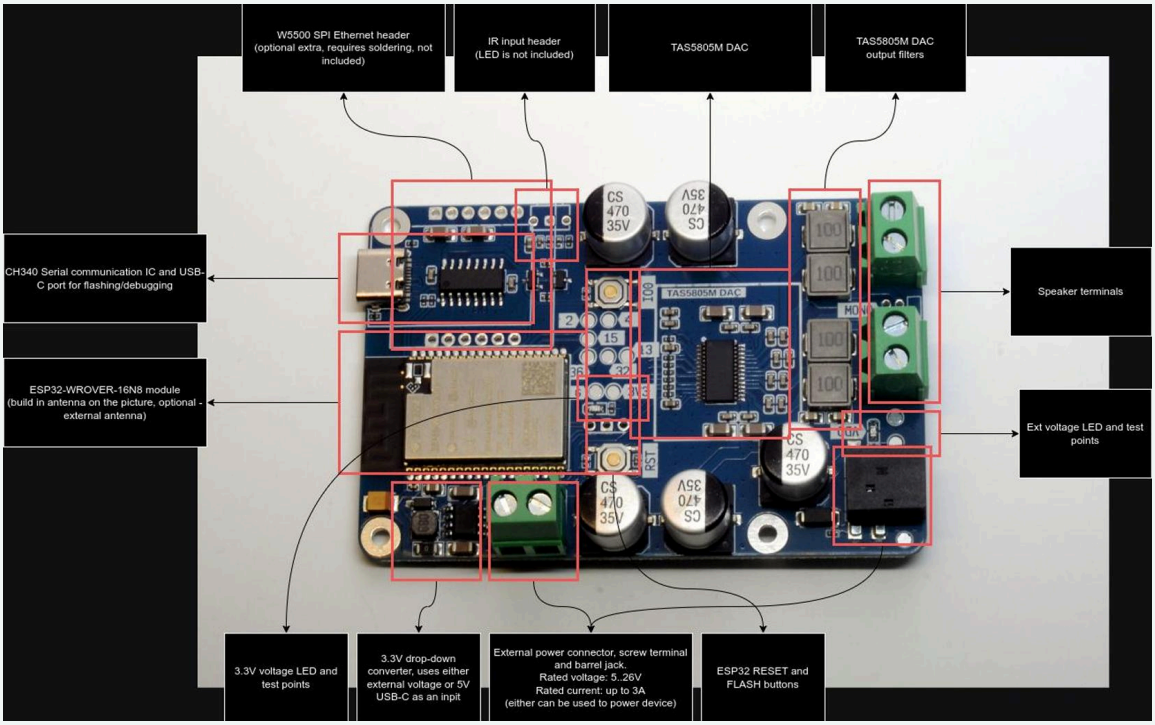


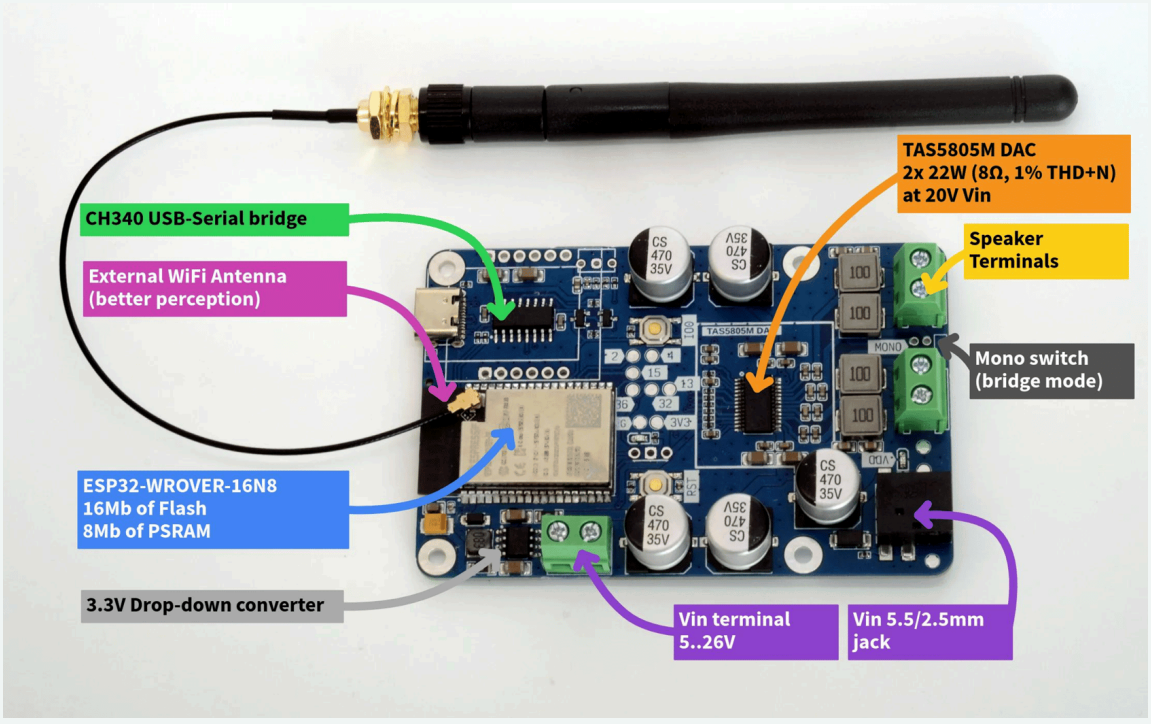






Hardware Overview





	12S CLK	12S DATA	I2S WS	PSRAM RESERVED	TAS5805 SDA	TAS5805 SCL	TAS5805 PWDN	TAS5805 FAULT
Loder ESP32	GPIO26	GPIO22	GPIO25	GPIO1, GPIO16	GPIO21	GPIO27	GPIO33	GPIO34

Applications

- **Hi-Fi Audio Development**
- **DIY Audio Projects**
- **Home Audio Systems**
- **Smart Speakers**
- **Wireless Audio Solutions**
- **Rapid Prototyping**

Resource Links

- https://www.seeedstudio.com/Louder-ESP32-p-6401.html
- Users Manual
- Schematic diagram
- Test Document
- Squeezelite Firmware Online Flashing Address

Seeed Technology Co.,Ltd.
9F, Building G3, International E City,
Zhongshanyuan Road, Nanshan, Shenzhen, China

Tel: +86 0755-80695676
Web: www.seeed.cc
Shop: www.seeedstudio.com