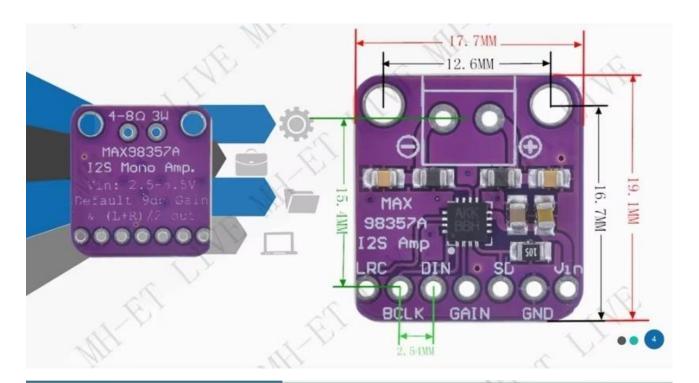
MAX98357

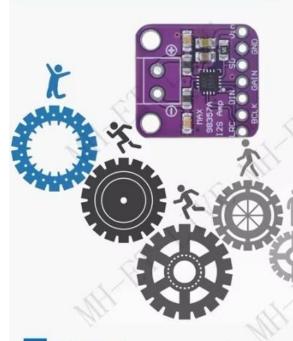
Maxim announces the MAX98357 and MAX98358 digital input Class D audio power amplifiers, enabling designers to implement compact, efficient, plug-and-play solutions at a cost-effective price. In addition to its small form factor, the device is capable of achieving a 3.2W Class AB amplifier with Class D amplifier efficiency, resulting in excellent high fidelity sound for a variety of product applications.

The MAX98357 Pulse Code Modulation (PCM) and MAX98358 Pulse Density Modulation (PDM) plug-and-play speaker amplifiers take advantage of the flexibility of Maxim's pinout.

- Output power: 3.2W at 4Ω and 10% THD 1.8W at 8Ω and 10% THD
- I2S sampling rate: 8kHz-96kHz
- 03 Class D gain optional : 3dB/6dB/9dB/12dB/15dB
- 04 No master clock (MCLK) required
- Plug and Play: 35 different clocks and 128 digital audio formats can be automatically configured with a single power supply
- Suitable for microcontrollers or development board systems with I2S audio output such as Raspberry Pi, Arduino and ESP32







LRC: Frame Clock. Left/right clock for I2S and LJ mode. Sync clock for

TDM mode

BCLK: Bit Clock Input

DIN: Digital Input Signal

GAIN: Gain and Channel Selection. **SD**: Shutdown and Channel Select.

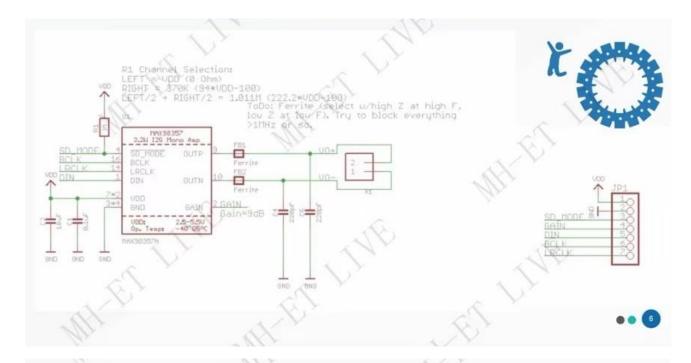
Pull SD_MODE low to place the

device in shutdown.

GND: GND

VCC: DC 2.5V-5.5V





Used with INMP441 to realize recording and broadcasting functions in the ESP32 development environment (wiring diagram)

