

TA2024 Digital Audio Amplifier 12V

2x15W



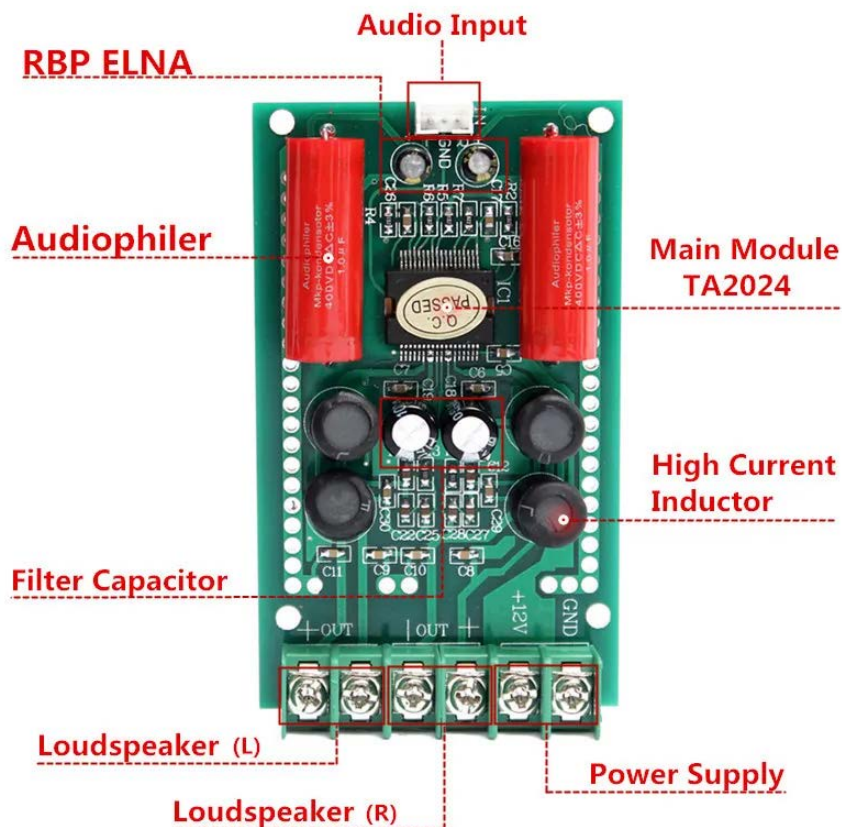
Features:

This Class-T stereo amplifier board is powered by the TA2024 IC, delivering up to 15 W per channel into 4 Ω or 10 W per channel into 8 Ω from a single 12 V DC supply. It combines high audio fidelity comparable to Class-AB designs with the efficiency of Class-D, eliminating the need for bulky heat sinks. Integrated over-temperature, over-current, and short-circuit protection ensure safe operation. Large film coupling capacitors and low-ESR electrolytics enhance audio clarity, while screw terminals allow quick speaker and power connections.

Specifications	
Chipset	TA2024 Class-T
Supply Voltage Range	8.5 V min – 13.2 V max (typical 12 V)
Output Power	15 W/ch @ 4 Ω (10% THD+N); 10 W/ch @ 8 Ω
THD+N	0.04% @ 9 W, 4 Ω
Efficiency	81% at 15 W/4 Ω ; 88% at 10 W/8 Ω
Dynamic Range	102 dB
Protection Features	Mute, Sleep, Over-current, Over-temperature, Pop suppression
Board Dimensions	92 x 50 mm
Output Type	BTL (bridged), no output capacitor required
Use	DIY audio amplifiers, PC speaker systems, portable or battery-powered audio

Pinouts:

Pin Name	Type	Description
+12V	Power Input	DC supply input (8.5–13.2 V, 12 V recommended)
GND	Power Ground	Common ground for power and signal
R+	Output	Right channel positive speaker output
R-	Output	Right channel negative speaker output
L+	Output	Left channel positive speaker output
L-	Output	Left channel negative speaker output
IN_R	Input	Right channel audio input
IN_L	Input	Left channel audio input
GND_IN	Signal Ground	Audio input ground reference



Product Pictures:

