

Audio Amplifier Board TPA3116 D2

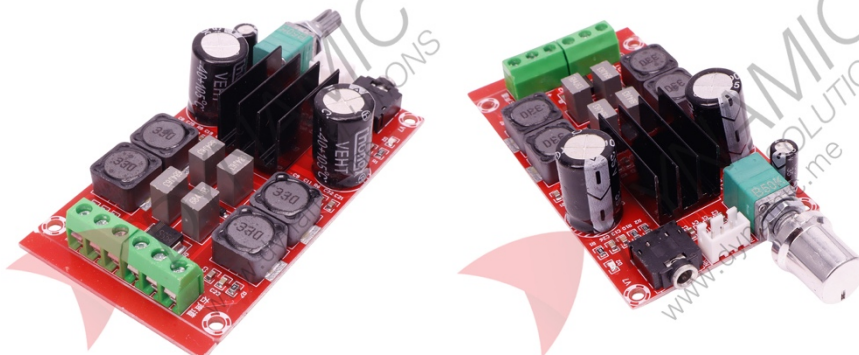


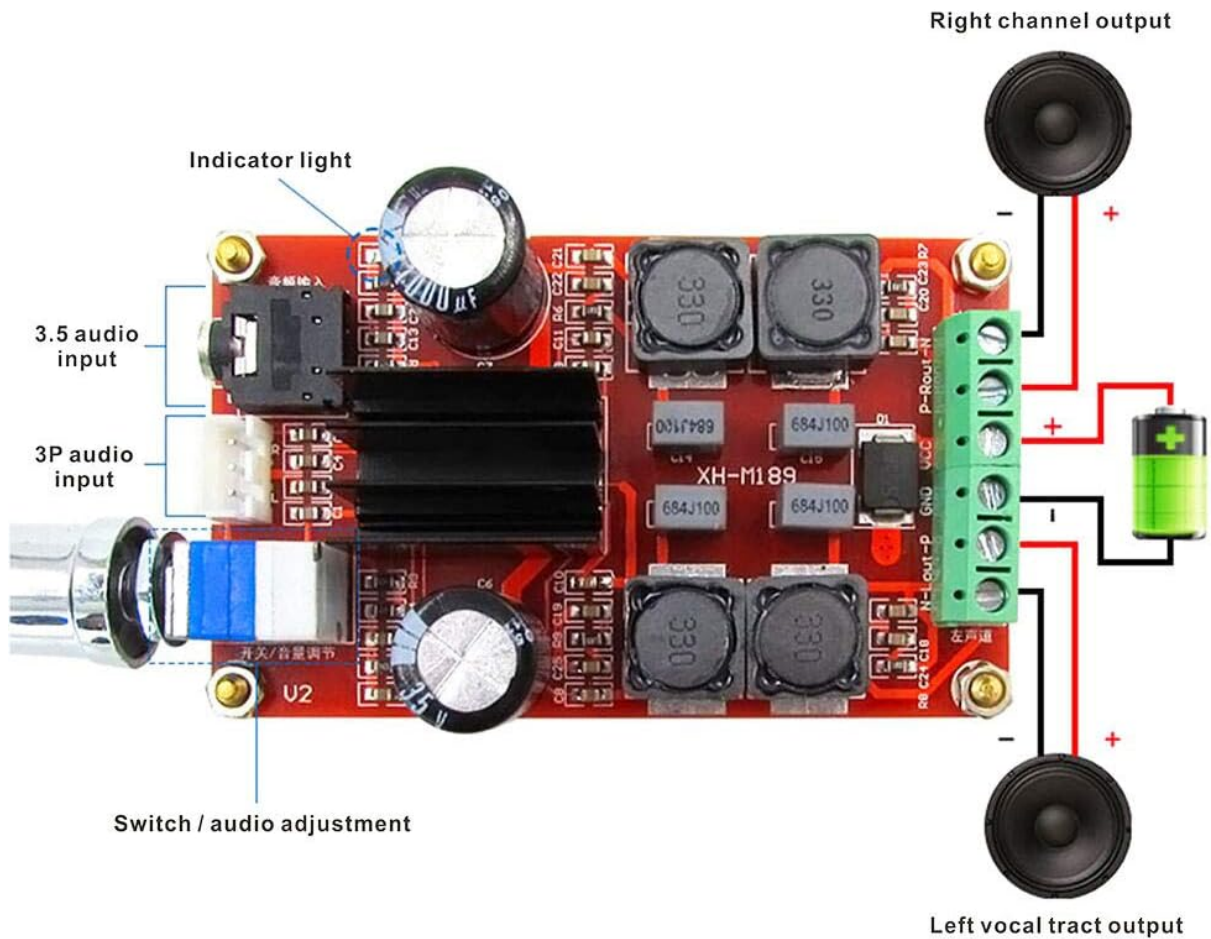
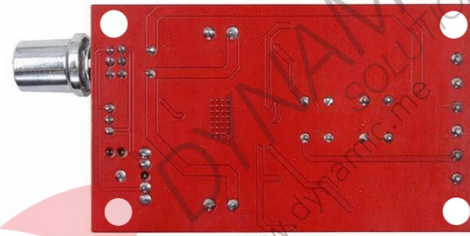
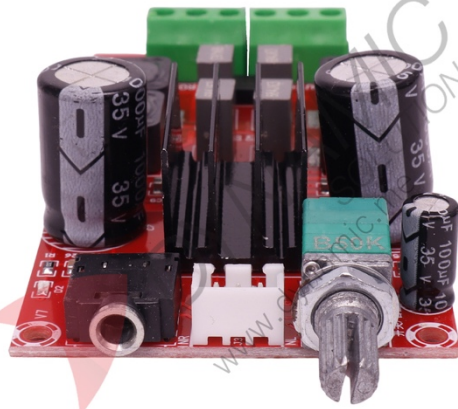
Features:

The TPA3116D2 is a stereo 50W efficient digital class D amplifier power stage designed to drive two bridge tied speakers or up to 100W in a single parallel bridge tied load configuration. It operates from a single 6V to 26V supply and supports stereo and mono modes including single filter mono mode. With greater than 90 percent power efficiency, it significantly reduces heat dissipation requirements and can operate with a small or no heat sink for music applications. The device supports multiple switching frequencies for AM avoidance and employs a feedback power stage architecture with improved PSRR and high damping factor for accurate sound reproduction. It integrates comprehensive protection including over voltage, under voltage, over temperature, DC detect and short circuit protection with fault reporting.

Specifications	
Product Name	Audio Amplifier Board TPA3116 D2
Amplifier Type	Class D Stereo Digital Amplifier
Output Power	2x50W at 4 ohm 21V
Output Power	2x25W at 4 ohm 14.4V
Mono Output Power	Up to 100W
Load Impedance	4 ohm typical, 3.2 ohm minimum
Supply Voltage Range	6V to 26V
Efficiency	Greater than 90 percent
Switching Frequency	Multiple, AM Avoidance Supported
Protection	Over Voltage, Under Voltage, Over Temperature, DC Detect, Short Circuit
Operating Temperature	-40C to +85C
Package	32 pin HTSSOP DAD Pad up
Application	Consumer Audio, Automotive, Speaker Systems
Usage	High efficiency stereo and mono audio amplification

Product Pictures:





Warm hint: the red line is the positive pole, the black line is negative, do not connect the reverse power and negative pole, please do not use the power and power size of the sound.