

TA-10.2

Class-T Stereo Audio Amplifier



TA-10.2P

Class-T Power Amplifier



Description

Trends Audio introduces the mini-size Class-T stereo amplifier TA-10.2 providing up to 2x15W output with the bundled AC power supply unit. Thanks to the Tripath's proprietary Class-T Digital Power Processing (TM) technology and our special techniques in circuit design and component selection, TA-10.2 achieves the sound quality of high-end HiFi but in a very affordable price.

Features

- applied the proprietary T-amp technology for audiophile quality sound, high power efficiency (90%) and less heat generation.
- compact design (mini-size & light weight), easy portable and setup provide up to 2x15W output.
- an AC adaptor is bundled for continuous power supply.
- separated amplifier & AC adaptor design to minimize mutual interference and flexible to apply other power sources, e.g. Trends PW-10 PSU or lead-acid battery.
- standard gold-plated audio and speaker sockets used to be compatible with most audiophile quality cables.
- applied the specially designed audiophile-grade "Trends" MKP capacitors as audio input decoupling capacitor which guarantee the best original audio signal feed into the amplifier.
- applied the lowest LSR & highest ripple current Rubycon MCZ series tank capacitors as the power filtering capacitor which best suit the switching PWM characteristic of class T(class-D) amplifier.
- applied the smaller yet better quality ALPS 9mm sealed volume pot which provide better sound in the volume control (TA-10.2 SE only).

TA-10.2 performs very like Class-AB amplifiers with high fidelity and warm sound. Yet, its power efficiency and physical size is just like Class-D amplifiers. Even its maximum output power is only 2x15W, TA-10.2 is actually powerful to push even the floor-stand speakers with sufficient and good control of bass sound.

- re-organized the sockets layout of the back panel which provides a more convenient audio cable and speaker cable connections.
- enhanced the chassis with beautiful satin finish and smarter black/white contrast.
- the DC bias between speaker terminals can be offset (close to +0mV) by adjusting the potentiometers (factory pre-set). It suppresses the "pop" sound when power on/off and also increase the sound purity.
- option to work as a pure power amp by simply reset jumpers to by-pass the volume controlling circuit.
- built-in over-current protection.
- built-in over-temperature protection.
- audiophile-graded parts and components.
- air-core inductor used instead of magnetic-core for better sound.
- the stylish & specially-plated aluminium case provides not only good-looking, and also provides outstanding shielding capability.



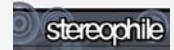
Specifications

Spec. (Amplifier Unit)

T-Amp IC	Tripath TA2024
Output Power	2 x 15W @ 4ohm 2 x 10W @ 8ohm
Signal-to-Noise Ratio (SNR)	98dB
Dynamic Range	98dB
IHF-IM Distortion	0.10% @ 1W , 4ohm
THD+Noise	"Audiophile" Quality 0.03% @ 9W , 4ohm 0.1% @ 11W 4ohm 0.1% @ 6W 8ohm
High Power	10% @ 15W 4ohm 10% @ 10W 8ohm
Power Efficiency	81% @ 15W , 4ohm 90% @ 10W , 8ohm
Input	Audio IN RCA (Left/Right) x 1 Power socket (5.5mm/2.1mm) x 1
Output	Speaker OUT (Left) x 1 pair (+ / -) Speaker OUT (Right) x 1 pair (+ / -)
Other Switch & Knob	Power ON/OFF switch x 1 Power Indicator (Blue LED) x 1 Volume knob x 1(No volume knob for TA-10.2P)
Power Supply	DC 12V~13.2V(max.)
Dimensions(DxWxH)	TA-10.2: 114mm x 76mm x 46mm[case only]/ 150mm[incl. sockets & knob] TA-10.2P: 14mm x 76mm x 46mm[case only]/ 135mm[incl. sockets & knob]
Weight	500g



"The little Trends amp surprised the hell out of me" Stephen Mejias at Stereophile.com



"...can be the heart of any high-end system. Recommended? No, you simply must have one" Lucio Cadeddu at TNT-audio.com



"Small but powerful... is the Napoleon Bonaparte of amplification" Edgar Kramer at Sound & Image Magazine



"Making High Resolution Available to Everyone" Paul Szabady at Stereotimes.com



Spec. (AC Adaptor)

Model	Standard	SE Version
AC Input: Universal AC	100V-240V/50-60Hz	
DC Output	DC 12V 3A (36W)	DC 12V 4A (48W)
Ripple & Noise	<= 50mV	
Over-load Protection	105%-150%	
Over-voltage Protection	115%-150%	
Dimensions(DxWxH)	117mm x 48mm x 33mm	117mm x 58mm x 38mm
Weight	300g	400g

Accessories: 3 Pins Power Cord x1(IEC plug and another plug with different country standards)
User Guide x1, Warranty Card x1

Regulatory Compliance

CE	FCC
RoHS	Canada ICES-003 Class B

Warranty

Two years parts and labor

Optional Accessory: Trends PW-10 PSU

AC Input	110V /50~60 Hz or 220V / 50~60Hz (specific model should be selected, not compatible)
DC Output	TA: +12V/3.3A, DA/UD: +5V/230mA, PA: +24V/420mA
AC Input Socket	IEC socket
DC Output Socket	DC 2.1 socket
Dimensions(DxWxH)	205mm x 105mm x 55mm
Weight	1.8KG



Comparison

Comparison between TA-10.2, TA-10.2 SE and TA-10.2P

Model	TA-10.2	TA-10.2 SE	TA-10.2 for iPhone/iPod	TA-10.2 SE for iPhone/iPod	TA-10.2P	TA-10.2P SE
Type	Integrated Amplifier			Power Amplifier		
Power Supply	3A	4A	3A	4A	3A	4A
Volume Control	Taiwan Made	ALPS	Taiwan Made	ALPS	x	x
Apple Line Out Cable	x	x	√	√	x	x

Remark: SE=Special Edition

- To continuously improve our product, we reserve the rights to change some features and specifications without further notice

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