

Sinilink XY-T100H Bluetooth 5.0 with front high and low tuning stereo digital power amplifier module 100W

Extreme Edition XY-T100H
Original imported TPA3116D2

100W+100W HI-FI 2.0
Stereo Bluetooth Digital Power Amplifier Board

High-fidelity sound quality, deep bass, transparent treble



The main knob of volume adopts the rotary encoder used in high-end speakers for infinitesimal tuning with smooth operation and stop with one key

- 1 AUX import
- 2 Bluetooth 5.0
- 3 USB soundcard
- 4 USB flash disk play
- 5 HI-FI tone quality

Presented:
Xin Yi Lian
mobilephone APP
control support
Android and IOS

The two styles can be matched freely

The pitch and bass can be adjusted independently

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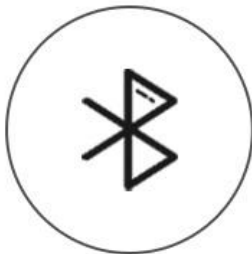
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Beautiful appearance and practical function



HIGH APPEARANCE, STRONG PERFORMANCE,
FULLY COMPATIBLE,
ONE IS BETTER THAN N



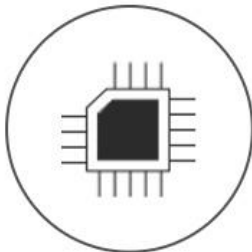
Bluetooth
5.0



AUX
input



USB
soundcard



USB flash
disk play





HIFitone
quality



APP
control

1.Comparison of T100H and T100L

T series 100W*2 Bluetooth power amplifier board selection table

Model	XY-T100L Ultimate Edition	XY-T100H Extreme Edition
Picture		
Character	Designed by efficient Class-D stereo amplifier, with excellent audio performance, good distortion and anti-pop function, Sound mellow, voice permeability, superior sound	Designed by efficient Class-D stereo amplifier TPA3116D2, with superhigh fidelity (HIFI) and stronger driving ability
sinilink APP	YES	YES
Power Supply	DC5-24V/5A	DC5-24V/5A
Bluetooth Version	5.0	5.0
Audio Input	Bluetooth + AUX + U disk + USB soundmax	Bluetooth + AUX + U disk + USB soundmax
Volume control	Rotate 360 degrees by encoder	Rotate 360 degrees by encoder
Audio output	R&L Channels +3.5mm Audio jack	R&L Channels +3.5mm Audio jack
Output power	100W*2	100W*2
Output filter	NO filter	Professional audio LC filter
Protections	overcurrent、short circuit、overtemperature protection and electrostatic protection	over temperature、overvoltage、undervoltage、DC-detect and short circuit protection and electrostatic protection
Thermal solution	Heat sink and shell	Heat sink and shell
Speakers	4-8Ω, 20-200W	2-8Ω, 20-200W
Size	93mm*65mm*25mm	98mm*70mm*25mm
Weight	107g	145g

2. Multi-function main knob

Classic appearance Multi-function main knob

The main knob adopts a rotary encoder that is only used in high-end power amplifiers to achieve 360-degree stepless tuning, smooth to the touch, one-button start and stop, long press on and off, simple and convenient operation



3.Knob cap accessory description

KNOB CAP ACCESSORIES

The accessory comes with 4 exquisite knob caps, 3 small and 1 large, and the two styles can be freely matched according to personal preference.

EXTREME EDITION XY-T100H

Random Collocation

The image shows two stacked black audio amplifiers. The top unit has three knobs labeled 'TREBLE', 'BASS', and 'VOLUME'. The bottom unit also has three knobs labeled 'TREBLE', 'BASS', and 'VOLUME'. Four silver knob caps are shown in blue circular callouts around the amplifiers. A blue circle with the text 'Random Collocation' is positioned at the bottom right of the callout arrangement.

4.Feature introduction

Function Description



5.Nude plate construction

Bare board structure display diagram

High-quality all-copper DC plug with long life

A total of two TPA3116D2 chips

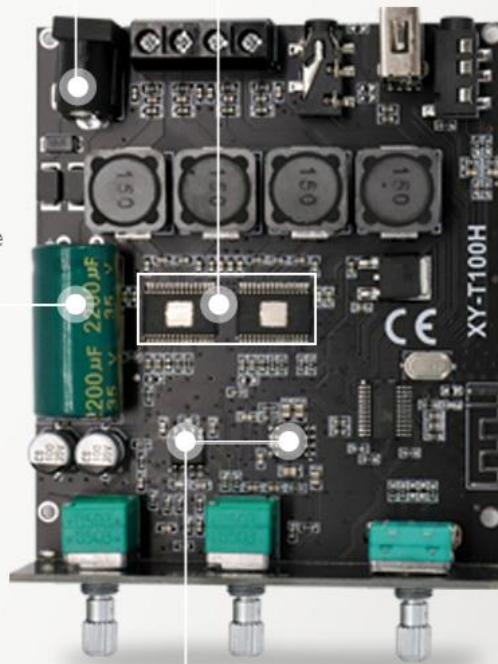


Free DC adapter

Free large area heat sink



Free heat sink and silicone gasket



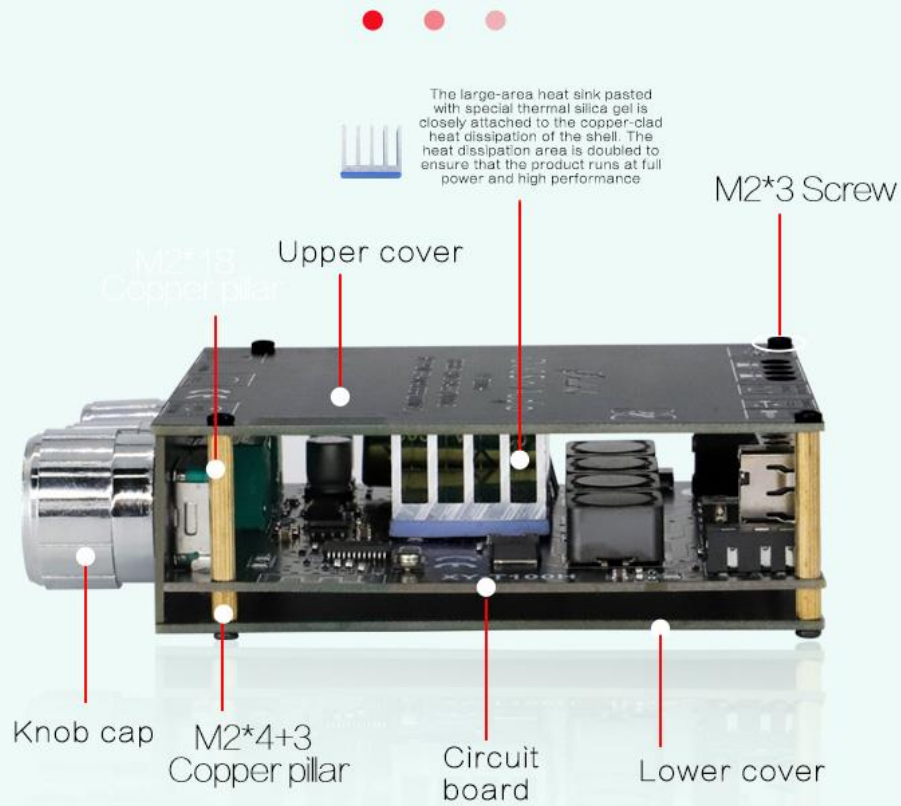
Low noise front stage op amp



Free screwdriver


6. Installation schematic diagram

Schematic diagram of shell installation




7.Product shipping list


Product List Display




Packaging + product weight: 145g




Free screwdriver



Upper cover




Product bare board



Lower cover

XINYI Sini Audio	
Product Model	XY-T1001
Power Supply	DC5.2V/100mA
Bluetooth Version	5.0
Audio Input	Bluetooth+ALC+USB
Audio Output	8ΩL Channels+ALC OUT
Power Output	100W*2
Speakers	20-20000Hz




4 lower cover knob caps



M2*4+3 copper pillars 4




M2*3 screws 8



M2*18 copper pillars



DC Adapters



heat sink



Silicone gasket

8. Product size



9.Product parameter table

Product parameter information sheet

Trademark: XINYI Sini Audio Model: XY-T100H
Name: 100W+100W High and bass adjustable stereo bluetooth power amplifier board
Power supply: above DC5-24V/5A Bluetooth version: 5.0
Audio Input: bluetooth+AUX+USB+USB sound card
Audio output: Passive speakers+3.5mminterface stereo out
Volume Control: high-end encoder knob adjustment, smooth hand feel
Frequency domain: 20Hz-30KHz SNR: 92dB
Fit the horn: 20W-200W /2Ω-8Ω Output Power: 100W*2
Protection mechanism: Electrostatic protection Overheating protection Overcurrent protection Short circuit protection
Special Features: Support Sinilink-APP
Product Size: 98mm*70mm*25mm Product weight: 145g

10. Product display

Products Show



11. Notes for product use

11.1 Heat sink installation

During assembly, we must pay attention to the installation of the heat sink, stick the silicon gel to the radiator, and then stick the silicone side to the amplifier chip; note that the radiator metal shell must not contact with the surrounding components to avoid short circuit; finally, the top plate press the heat sink, through the top plate to achieve better heat dissipation effect.

11.2 Audio input mode switch

This product default Bluetooth mode without any external audio device; if the external playback device is inserted into AUX or U disk, the default is AUX or U disk play mode; follow the priority, such as inserting AUX, during Bluetooth playback, immediately switch to AUX playback; if inserting U disk, immediately switch to U disk play; switching audio mode can also choose with APP, which is very convenient.

When the AUX plays, try to choose the AUX cable with the shielding layer to reduce the noise. If used with the desktop computer, try to use the AUX output interface behind the computer host, and the AUX output in front of the computer may have noise.

U disk playback to use MP3 format as possible, WAV format sampling rate must be within 44100Hz, too high sampling rate may lead to not playback.

When using the USB sound card function, you can connect the computer with the USB data cable without installing any drive. Most computer systems will switch the USB sound card by default. If you cannot switch automatically, you can manually choose to switch.

11.3 Power supply selection

- 1) Power supply range 5-26VDC, compatible with standard 5.5-2.1/2.5 power adapter plug, recommended 12V/24V standard power adapter, current output above 10A.
- 2) The selection of power size is related to the horn power used, such as using 2 Ω / 100W horn power not exceeding 20V; using 4 Ω / 50W horn, power not exceeding 21V, using 8 Ω / 50W horn, and power supply not more than 24V.
- 3) The supply voltage must not be higher than 26V, and higher than 26V, circuit board is burned.
- 4) If the volume is increased during the playback process, the power amplifier board is restarted, which is caused by insufficient power supply, and you can replace the power supply with a larger output current.

11.4 Horn selection

This product power amplifier can continuously output 100W*2 of power, 20W~200W horn can be promoted, using 8 ohms or 4 ohm horn is recommended. If the power is within 100W,

appropriately reduce the supply voltage (e. g. 12V power) or reduce the playback volume; the greater the horn supply voltage greater than 100W, the better (within 26V).

If the music horn appears "hiccup" phenomenon, the first consider the lack of power supply, a larger power supply to use power supply; the second consider the power spare heat protection, strengthen heat dissipation or reduce the playback volume.


If multiple horns are used in parallel, be sure that the total impedance after the horn in parallel is controlled above 2 ohms, too small impedance, the power amplifier is easy to enter the overcurrent protection state.

11.5 Signal problem

- 1) This product uses a PCB antenna with the visible distance of 15 m without shielding. If you do not find Bluetooth, or connect to Bluetooth, it is a signal problem.
- 2) Stay away from the router when used.
- 3) Avoid use on metal tops, which will affect the PCB antenna signal
- 4) Modify the speaker, if it is a metal shell, be sure to put the antenna out of the shell, the metal will shield the signal.

12.How to connect your mobile phone to Bluetooth

Mobile phone Bluetooth connection



Do not connect to Sinilink-APP here, if it is connected, please unpair and search again

When the Bluetooth board is powered on, the blue LED flashes quickly and enters the Bluetooth connection mode; the mobile phone searches for XinYi, clicks "XinYi" to complete the connection and the sound is played, at this time the blue LED enters a long light state; open the mobile phone to play music, The blue LED flashes slowly and enters the playback state.

Make sure that Bluetooth enters Bluetooth connection mode-blue LED flash, AUX do not insert, can not enter Bluetooth connection state after insertion

Search for Bluetooth on the mobile phone, found "complete the connection after XINYI", click, accompanied with the prompt sound. After the successful connection, the LED enters the long beam state, open the mobile phone music software to play music, blue LED flash, enter the playing state;

When the phone searches for Bluetooth, come out. "Sinilink-APP", don't connect this Bluetooth here, this is connected inside the APP. If connected, please cancel the pairing and search again, otherwise it will cause you unable to connect inside the phone APP.

13.How to download a mobile APP

扫码下载APP



Scan Download APP

Scan the code to download APP, foreign customers please download in Google Market,hunt for 'sinilink' download.

14.How to connect to your cell phone APP

Steps to connect Bluetooth via mobile APP

Note:When using the APP, you must turn on all the APP permissions in the phone settings, otherwise some phones,compatibility issues will occur, causing Bluetooth to fail to connect.



First step
Click the little yellow dot



Second step
Click to connect Bluetooth device



The fourth step
Connection succeeded



Third step
Search Bluetooth
Connect to Sinlink-APP

Turn on the location information of the phone when using the APP

