

ZK-TB22P 电位器外引式 50W*2+100W TPA3126D2 2.1 声道蓝牙音频功放板

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电位器外引式
全芯设计·对箱功能

2.1声道蓝牙音频功放板

含电位器和35cm引出线

ZK-TB22P

TPA3116D2

2 颗

| 立体声和低音炮
音量分别调节

| 支持远程固件更新

| 加大电容加大散热片

赠送：
炫酷APP



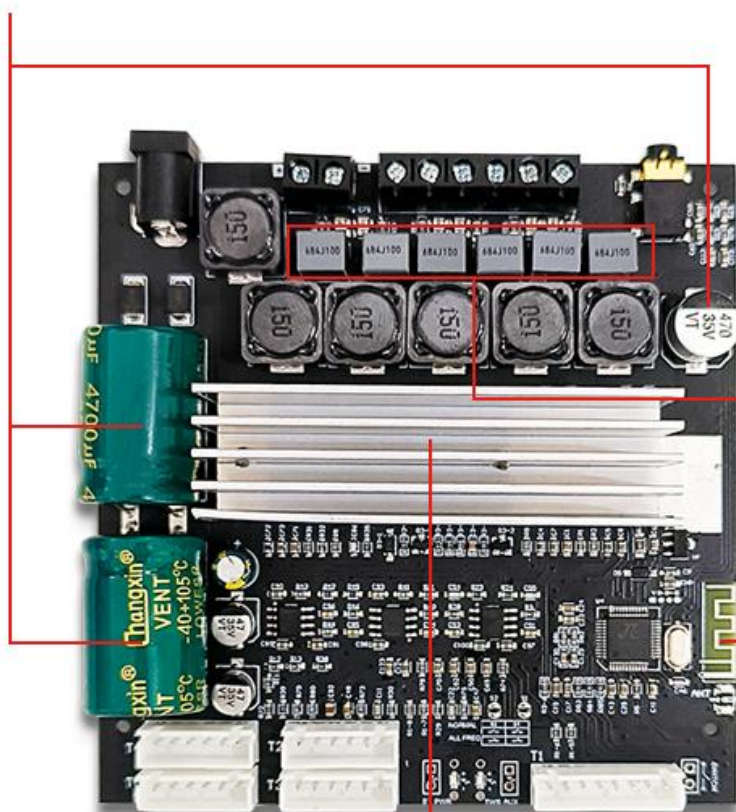
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1. 产品亮点

产品亮点

储能电容：4700ufx2+470uf电容容量更大，声音更结实



薄膜电容

滤波效果更好，
安静无杂音，
波形还原度
更好

**全新蓝牙
解码芯片**

解析更好

加大散热片

散热效果好

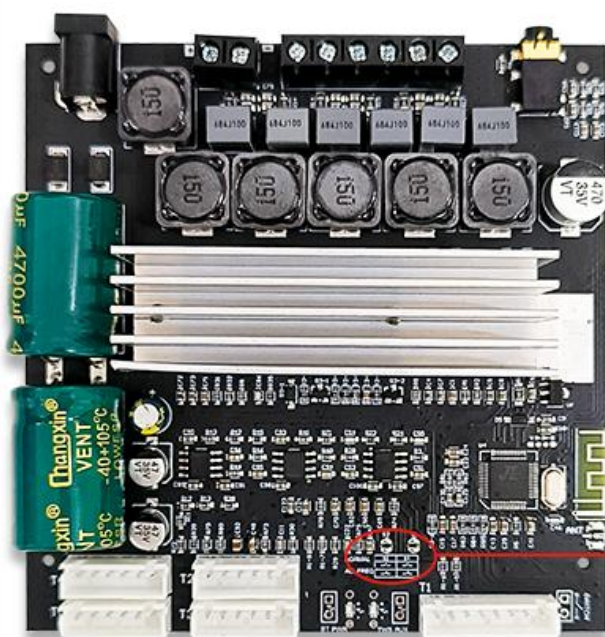
2. 旋钮介绍

旋钮介绍



3. 短接输出低音加重

短接输出低音加重



短接S1和S2
立体声输出低音加重

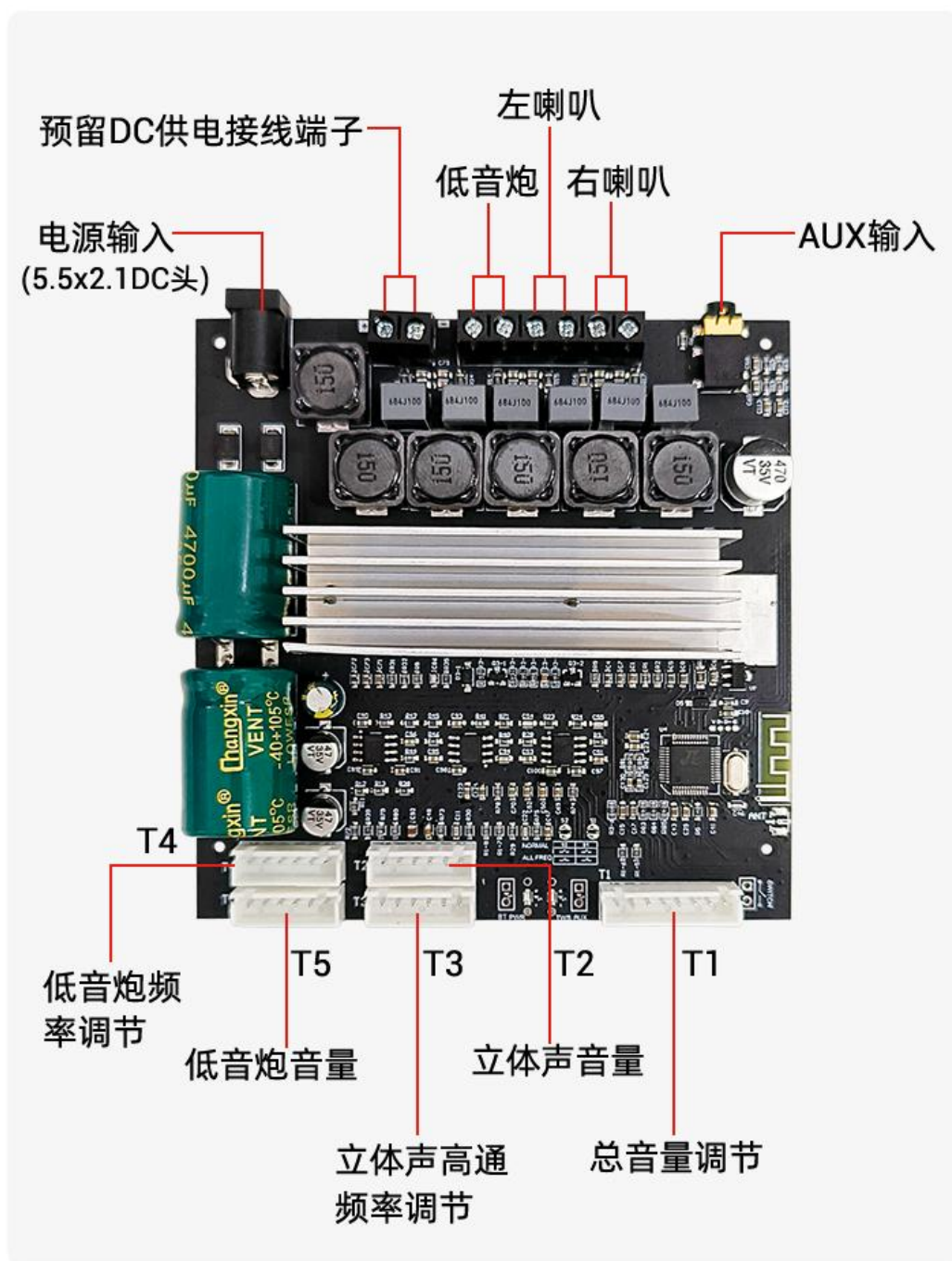


出厂默认非短接，为正常模式，立体声输出不含200Hz以下低音部分。

如果想要立体声输出低音加重，输出全频，需要短接S1两个焊盘，以及S2两个焊盘。

4. 功能介绍

功能介绍

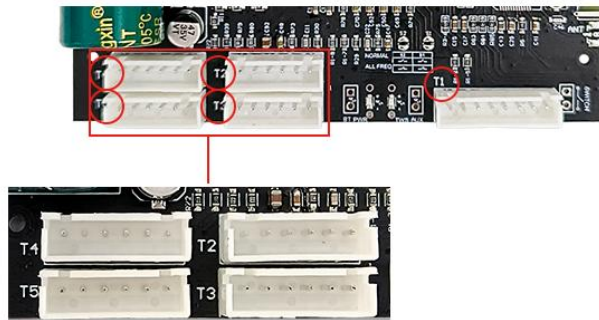


5. 电位器一体式插接线

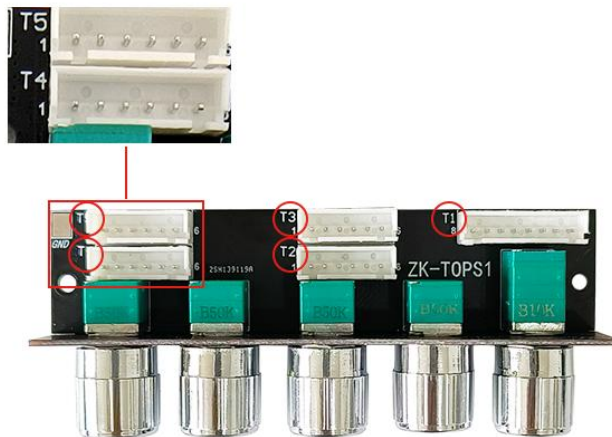
电位器一体式插接线

主板和电位器板的排线座都有标号，排线对应T1-T5插接。
电位器间距与TB21的电位器间距一致。

主板排线座



电位器板排线座



电位器间距

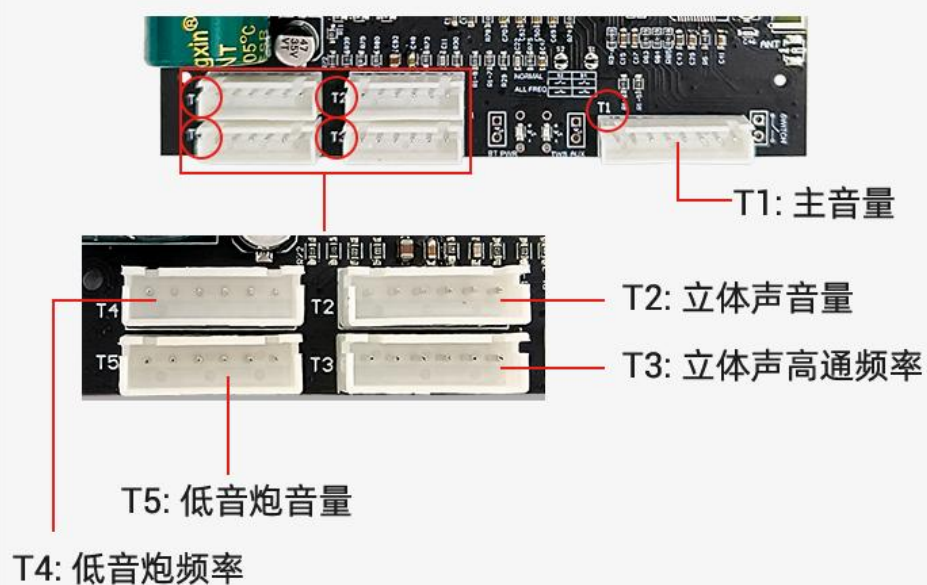


6. 电位器分离式插接线

电位器分离式插接线

6P双联电位器阻值都为50K，是通用的，随意插接。

主板端子座



分离式电位器



7. 固件更新

APP功能全面

改蓝牙名称

可更改每个产品的蓝牙名称，多个产品轻松识别。

改蓝牙密码

可修改蓝牙连接密码，防止别人劫持。

此功能可关闭。

调提示音大小

可调节提示音音量的大小，满足客户不同需求。

开/关提示音

提示音可选择开启或者关闭。



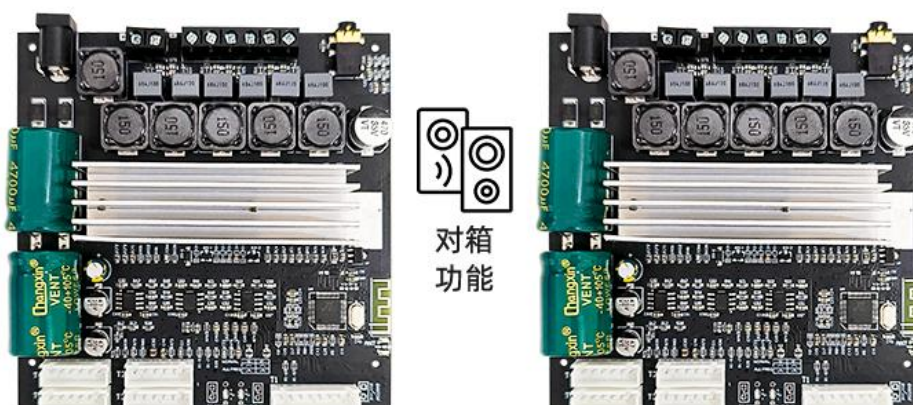
固件更新

8. 对箱功能

对箱功能

TWS互联

两台功放一起用



左声道

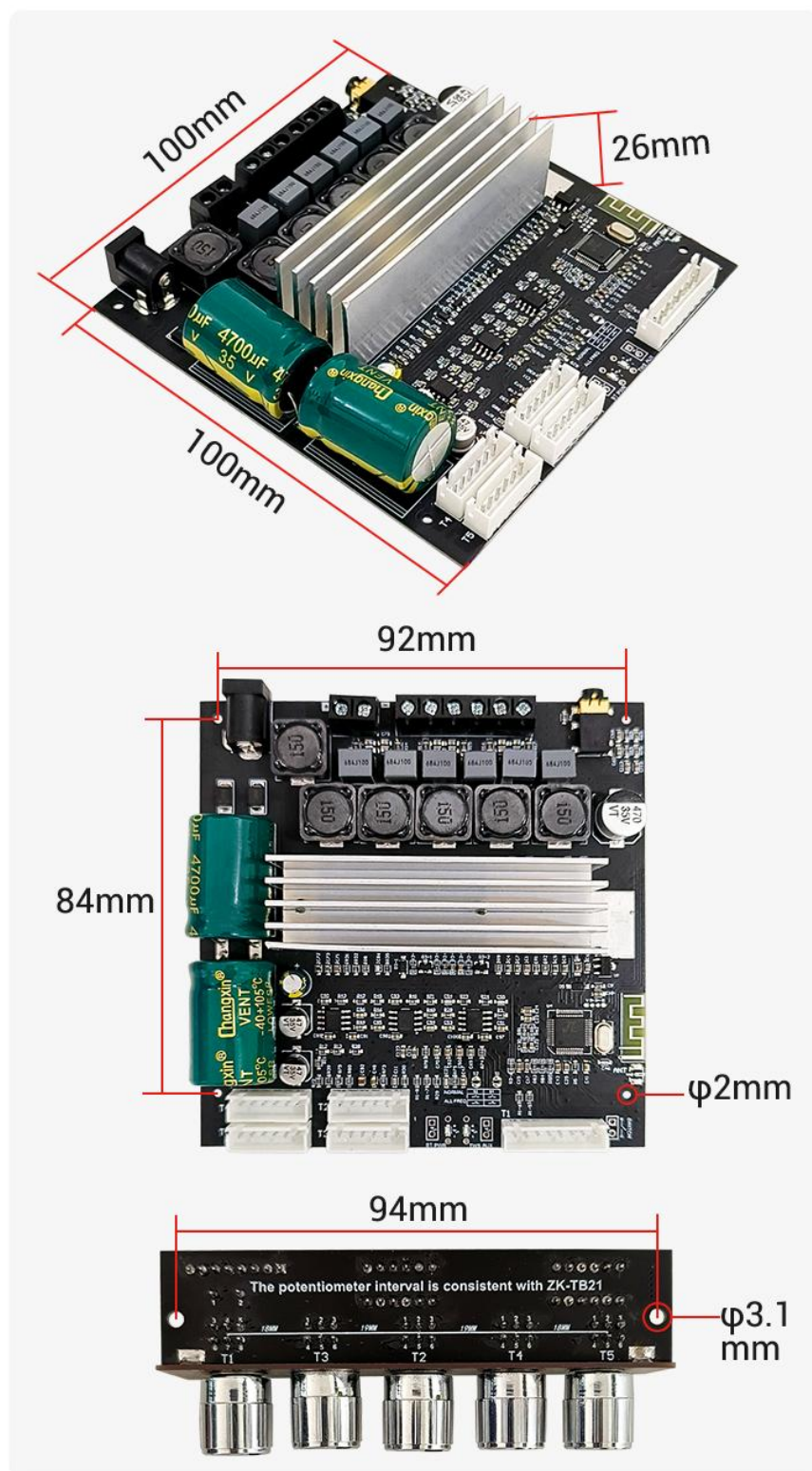
右声道

对箱功能操作介绍

- 1 打开两台同型号功放。
- 2 任意选择一台功放，向里三连击带按键功能的总音量旋钮，此时红色TWS指示灯闪烁，另外一台功放与其自动配对为立体声组合。（如果15秒内没有配对成功，会自动取消对箱配对模式，您可再次三连击按键尝试一次）
- 3 如果配对成功，选择的那一台会被分配为左声道，红色指示灯常亮，另一台为右声道，红色指示灯慢闪。
- 4 下次开机，会自动找到对箱。如果想取消对箱模式，只需要选择一台功放，三连击按键即可。

9. 产品尺寸

产品尺寸



10. 产品参数

产品参数

品牌：	Wuzhi Audio
型号：	ZK-TB22P
名称：	2.1声道50W+50W+100W电位器外接蓝牙音频功率放大器
功放芯片：	TPA3116D2
蓝牙版本：	5.1
蓝牙传输距离：	10米 (如需更远距离，请自行接外置天线)
音频输入：	蓝牙+AUX
音频输出：	左声道50W+右声道50W+低音炮100W
适配电源：	DC12-24V，≥7A (不可接交流电)
适配喇叭：	左右声道20-50W， 4-8Ω; 低音炮20-100W， 4-8Ω
外引线：	4根6P 35cm， 1根8P 35cm
音量调节：	总音量、立体声音量、低音炮音量分别调节，调节范围广； 总音量带按键 单击：播放/暂停 双击：下一曲 三击：选择或取消对箱模式
保护机制：	过温, 过流, 短路, 防静电保护
特色功能：	支持Wuzhi Audio APP。修改蓝牙名称，密码设置，提示音音量调节，开/关提示音，助眠曲，固件升级，等等。 对箱功能，真无线功能使两套音箱可以组合成为左右声道对箱，空间定位感更强。
产品尺寸：	100x100x26mm
产品重量：	电位器一体式净重220g，含包装283g 电位器分离式净重208g，含包装271g

11.APP 设置界面

APP设置界面



蓝牙名称修改步骤

【输入新蓝牙名称】→【点设置按钮】→系统自动重启→【手机蓝牙取消与原蓝牙名称配对】→【找到新蓝牙名称重新配对】

蓝牙密码设置步骤

方法一：

【打开蓝牙密码开关】→使用默认密码 1111

方法二：

【打开蓝牙密码开关】→【输入密码】→【点设置按钮】→系统自动重启→【取消配对，再次连接会提示输入密码】

ZK-TB22P Potentiometer External 50Wx2 +100W TPA3116D2 2.1channel BT audio power amplifier board

External potentiometer
Full core design
Box matching function

ZK-TB22P

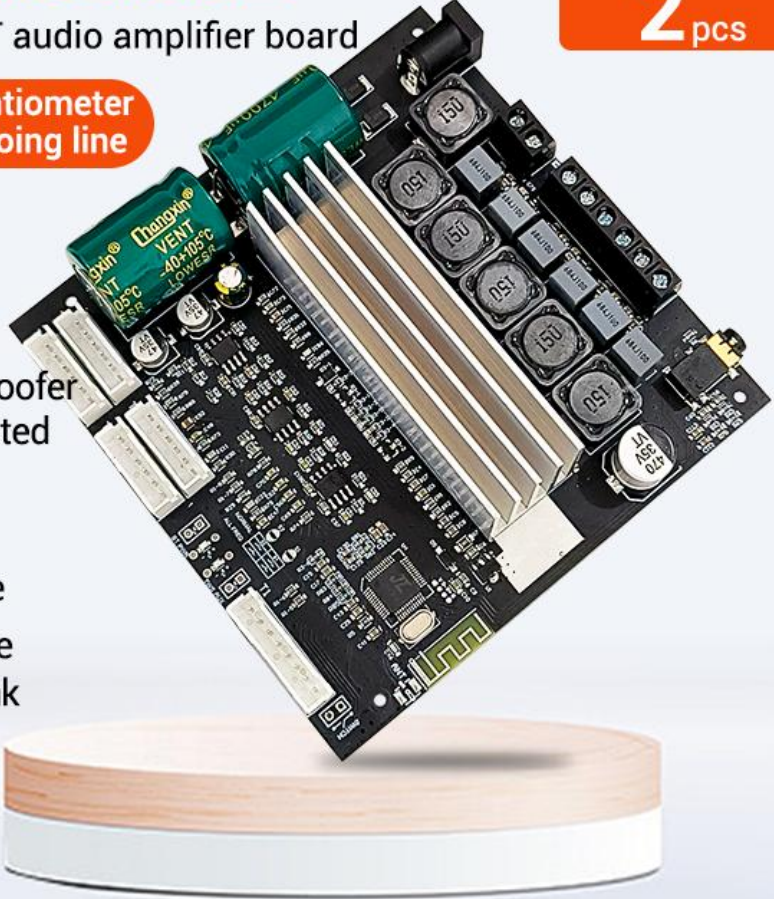
TPA3116D2
2 pcs

2.1 channels BT audio amplifier board

Including potentiometer
and 35cm outgoing line

- | Stereo and subwoofer
volume are adjusted
separately
- | Support remote
firmware update
- | Large capacitance
and large heat sink

Free:
Cool APP



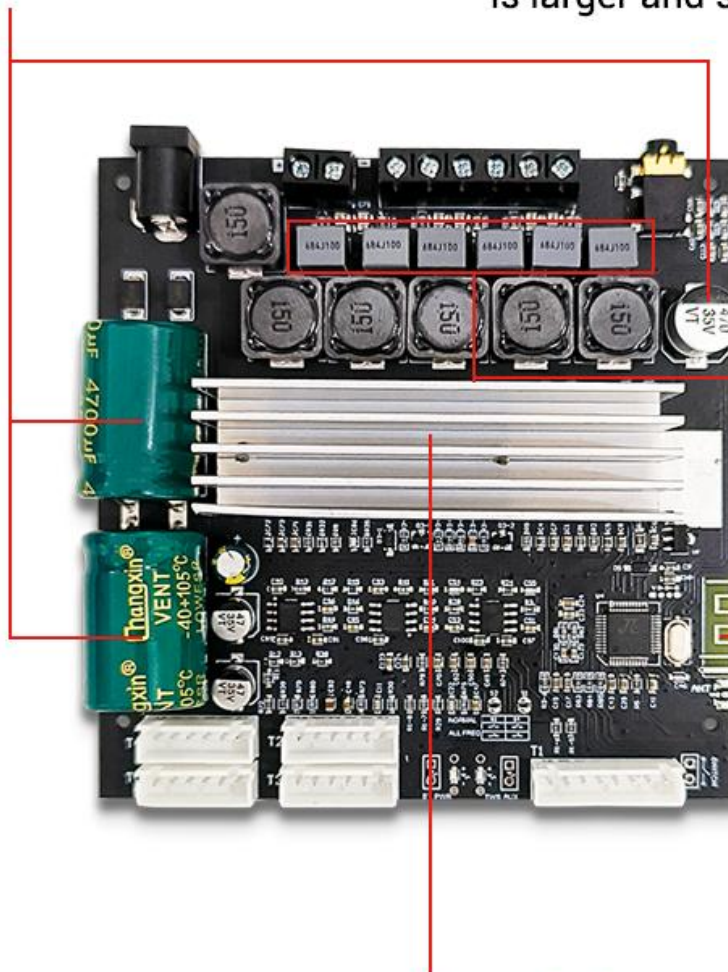
Catalogue

ZK-TB22P Potentiometer External 50Wx2+100W	
TPA3116D2 2.1 channel BT audio power amplifier board	
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1. Product highlights

Product highlights

Energy storage capacitor: 4700ufx2 + 470uf capacitance is larger and sound is stronger



Thin film capacitor

Better filtering effect, quiet without noise, better waveform restoration

New BT decoding chip

Better parsing

Larger heat sink
Good heat dissipation effect

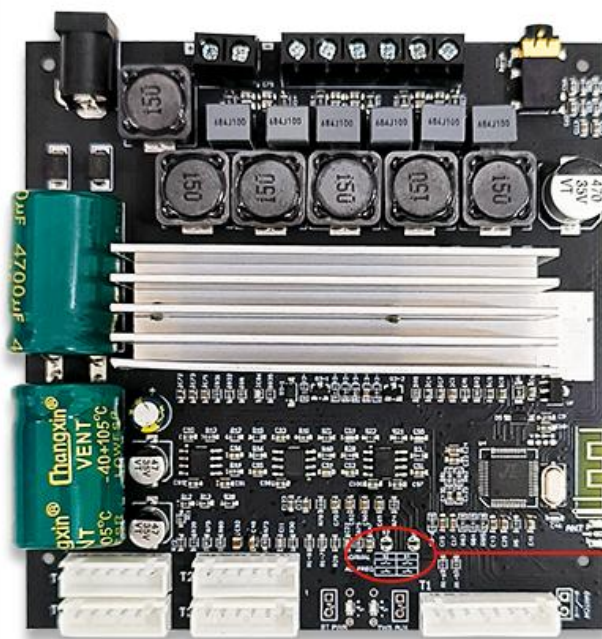
2. Knob introduction

Knob introduction

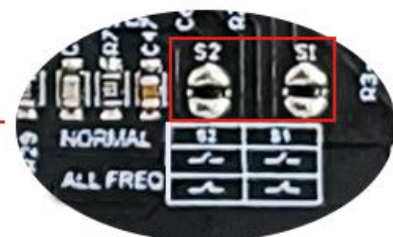


3. Short circuit output bass emphasis

Short circuit output bass emphasis



Short circuit S1 and S2
stereo output Bass
emphasis

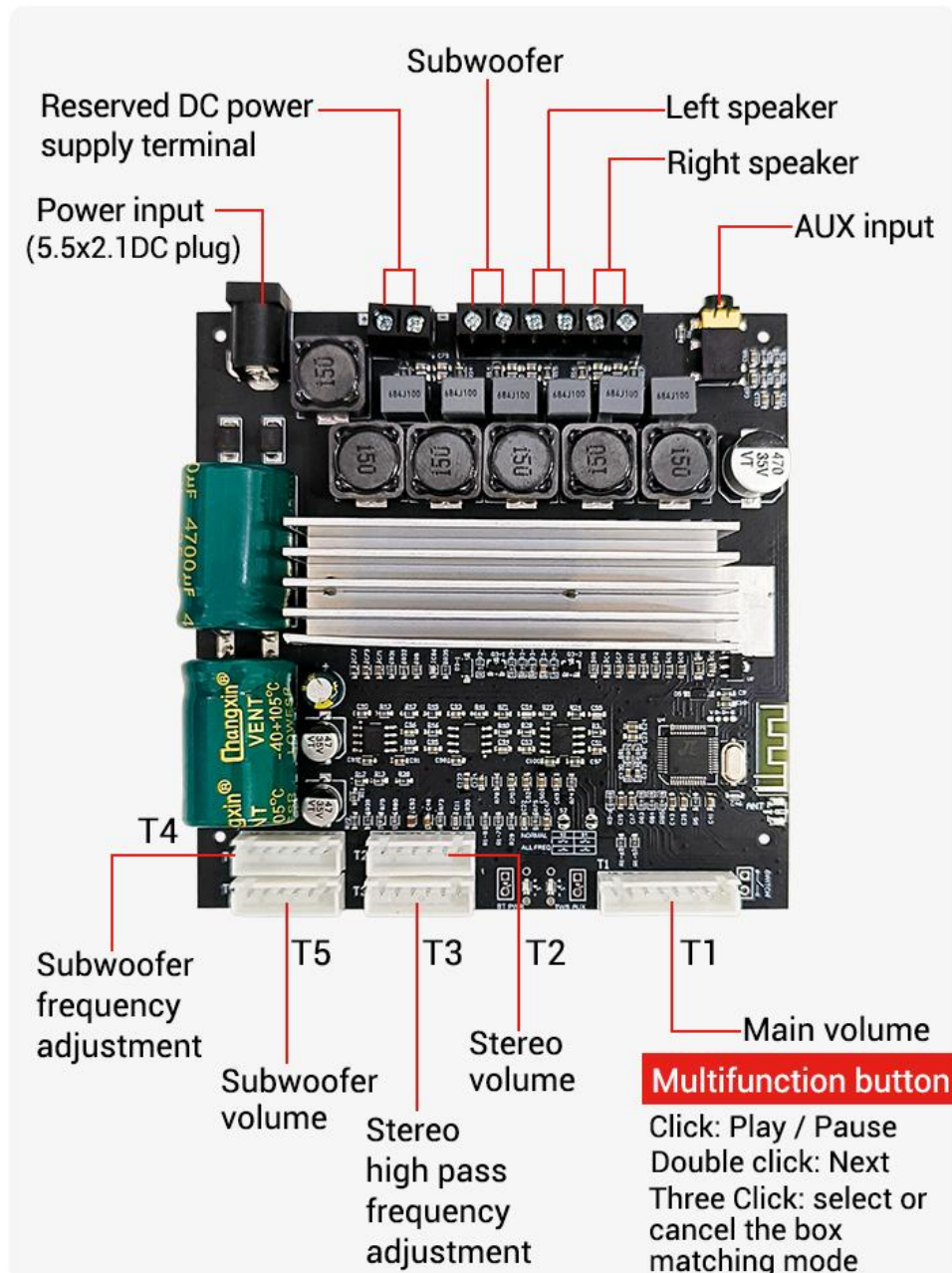


The factory default is not short circuited, which is the normal mode. The stereo output does not include the bass part below 200Hz.

If you want stereo output bass emphasis and full frequency output, you need to short connect two pads S1 and two pads S2.

4. Function introduction

Function introduction



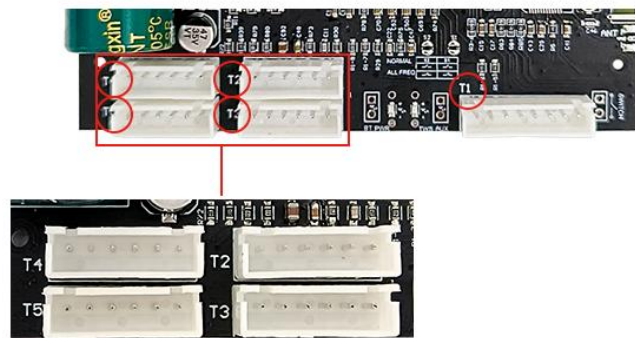
5. Potentiometer integrated patch cord

Potentiometer integrated patch cord

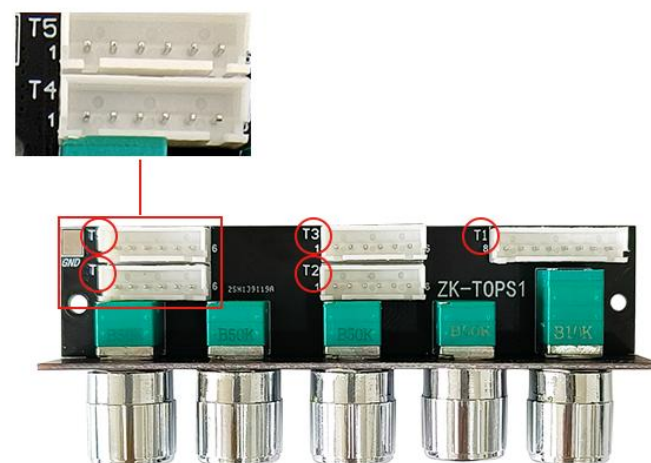
The flat cable bases of the main board and potentiometer board are labeled, and the flat cable corresponds to T1-T5 plug.

The potentiometer spacing is consistent with that of TB21.

Main board wiring base



Potentiometer board wiring base



Potentiometer spacing

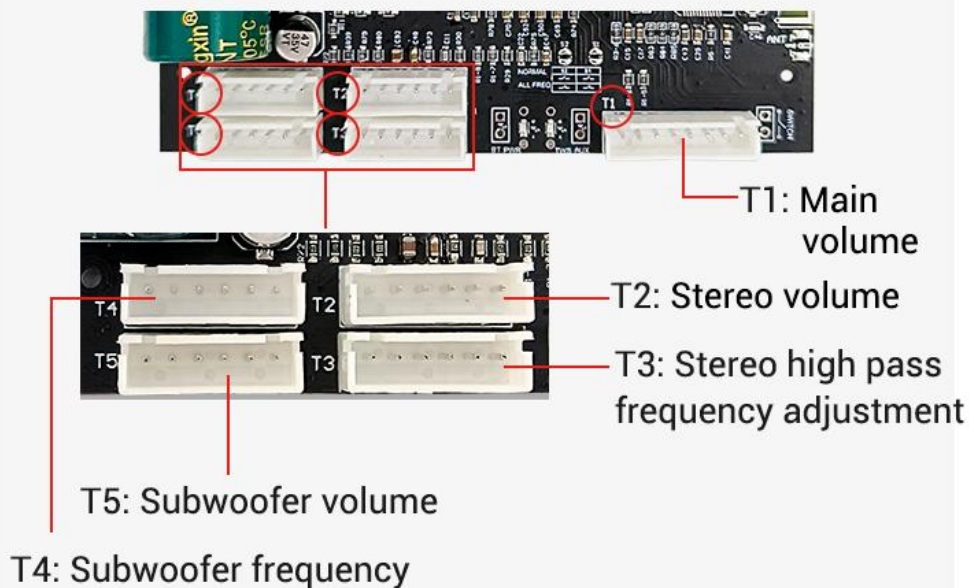


6. Potentiometer separate patch cord

Potentiometer separate patch cord

The resistance value of the 6p double potentiometer is 50K, which is universal and can be inserted at will.

Main board terminal block



Separate potentiometer



7. Firmware update

APP Comprehensive functions

Change BT name

The BT name of each product can be changed, and multiple products can be easily identified.

Change BT password

The BT connection password can be modified to prevent others from hijacking. This function can be turned off.

Adjust the volume of prompt tone

The volume of prompt tone can be adjusted to meet different needs of customers.

ON / OFF prompt tone

The prompt tone can be turned on or off.



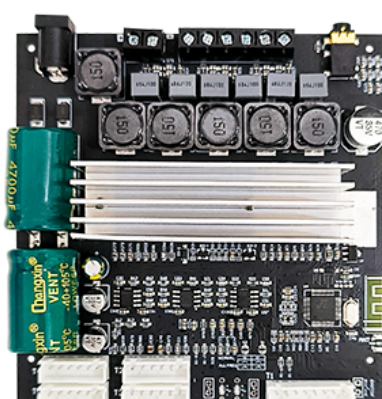
Firmware Update

8. Box matching function

Box matching function

TWS interconnection

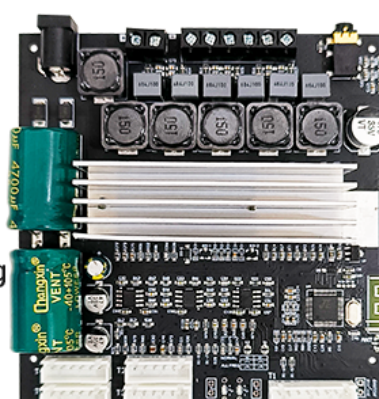
Two power amplifiers are used together



Left speaker



Box
matching
function



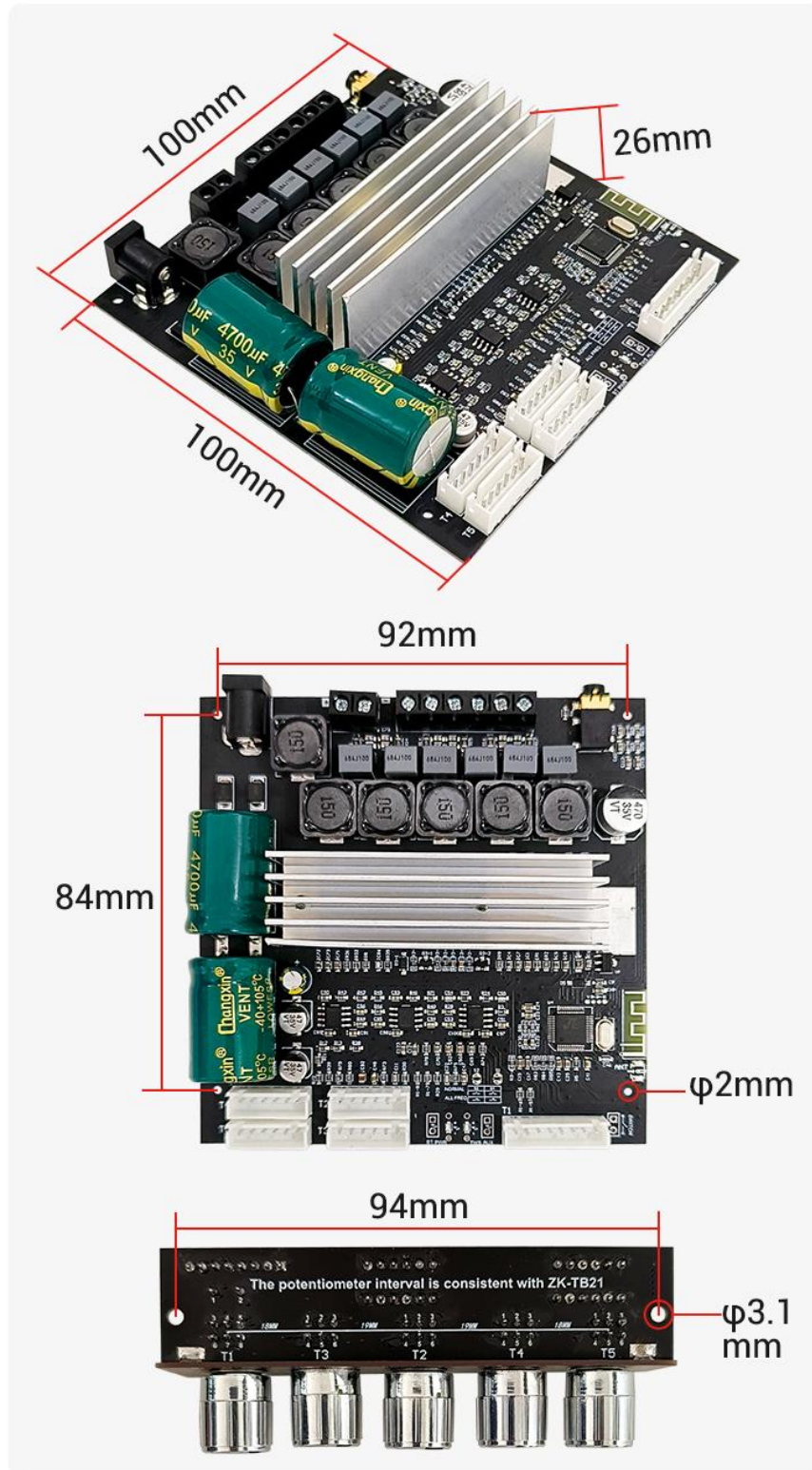
Right speaker

Introduction to box matching function and operation

- 1 Turn on two power amplifiers of the same model.
- 2 Select a power amplifier at will, and press the total volume knob with key function inwards three times. At this time, the red TWS indicator flashes, and the other power amplifier is automatically paired with it as a stereo combination. (if the pairing is not successful within 15 seconds, the pairing mode will be canceled automatically. You can try again by pressing the key three times.)
- 3 If the pairing is successful, the selected one will be assigned to the left channel, and the red indicator will always be on. The other one is the right channel, and the red indicator will flash slowly.
- 4 The next time you start the machine, you will automatically find the right box. If you want to cancel the box matching mode, you only need to select a power amplifier and press the button three times.

9. Product size

Product size



10. Product parameters

Product parameters

Brand:	Wuzhi Audio
Model:	ZK-TB22P
Name:	2.1 channels 50Wx2+100W potentiometer external BT audio power amplifier
Amplifier chip:	TPA3116D2
BT version:	5.1
BT transmission distance:	10m (if you need more distance, please connect external antenna by yourself)
Audio input:	BT+AUX
Audio output:	Left & Right channel 50W + Subwoofer 100W
Adaptive power supply:	DC12-24V, ≥7A (Do not connect to AC)
Adaptive speaker:	Left & Right channel 20-50W, 4-8Ω; Subwoofer 20-100W, 4-8Ω
Outer lead:	4 pcs 6P 35cm, 1pcs 8P 35cm
Volume control:	The total volume, stereo volume and subwoofer volume are adjusted separately, with a wide range of adjustment; Total volume (with buttons) Click: play/pause Double click: next Three Click: select or cancel the box matching mode
Protection mechanism:	Over temperature, over-current, short circuit, anti-static protection
Characteristic function:	Support Wuzhi audio app. Modify BT name, password setting, volume adjustment of prompt tone, on/off prompt tone, sleep music, firmware upgrade, etc. Box matching function, the true wireless function enables the two sets of speakers to be combined into left and right channel boxes, with a stronger sense of spatial positioning.
Size:	100x100x26mm
Product weight:	Potentiometer integrated Net weight 220g, Weight with package 283g Potentiometer separate type Net weight 208g, Weight with package 271g

11. APP setting interface

APP Setting interface



BT name modification steps

[enter a new BT name] → [click set button] → [system automatic restart] → [cancel pairing of mobile BT with the original BT name] → [find a new BTname and re pair]

BT password setting steps

Method 1:

[turn on BT password switch] → Use default password 1111

Method 2:

[turn on BT password switch] → [enter password] → [click the setting button] → [the system will restart automatically] → [cancel pairing, and you will be prompted to enter password when connecting again]