# ZK-TB22 50W*2+100W TWS 真无线 TPA3126D2 2.1 声道蓝牙音频功放模块

**Wuzhi Audio APP 下载二维码**

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# 目录

# 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
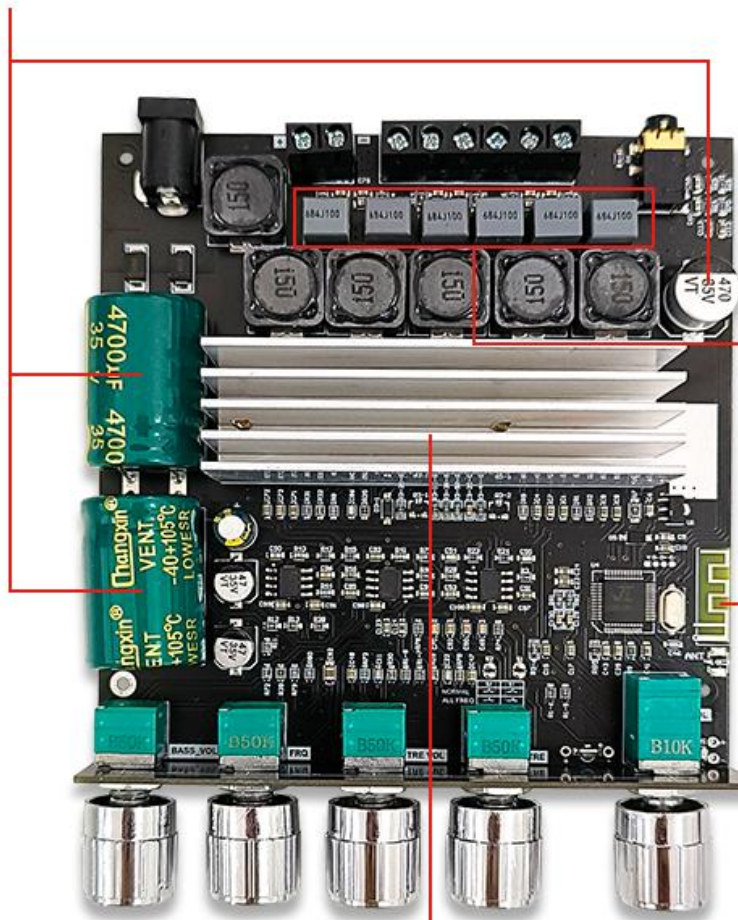
薄膜电容
滤波效果更好，
安静无杂音，
波形还原度
更好

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



低音炮音量

低音炮频率调节

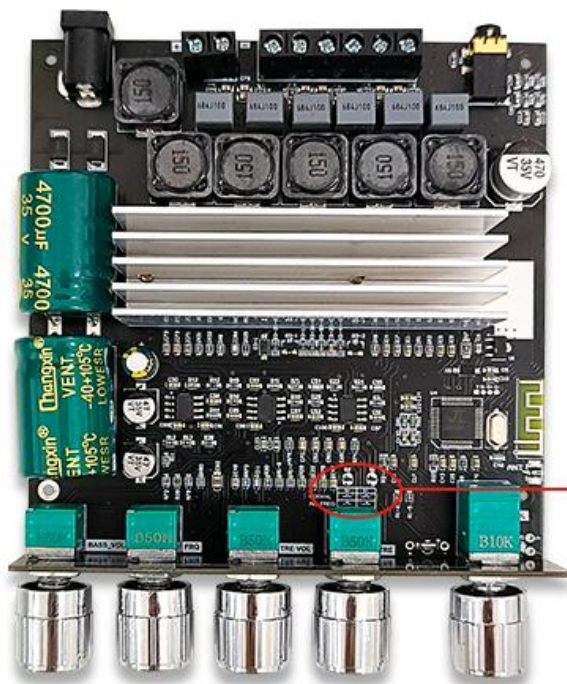立体声音量

立体声高通
频率调节

总音量调节

**多功能按键**

单击：播放/暂停
双击：下一曲
三击：选择或取
消对箱模
式

# 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

预留DC供电接线端子

左喇叭

低音炮 右喇叭

电源输入
(5.5x2.1DC头)

AUX输入

Wuzhi Audio

ZK-TB22

50W*2+100W
TREBLE - BASS REGULATION
2.1 CHANNEL AUDIO POWER AMPLIFIER

SUBWOOFER
BASS VOL    FREQ

R&L CHANNEL
TREBLE VOL    TREBLE

U & MAIN
VOLUME

低音炮音量

立体声音量

总音量调节

低音炮频
率调节

立体声高通
频率调节

多功能按键

单击：播放暂停
双击：下一曲
三击：选择或取消
　　　对箱模式

# 5. 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**

# 6. 对箱功能



**对箱功能**

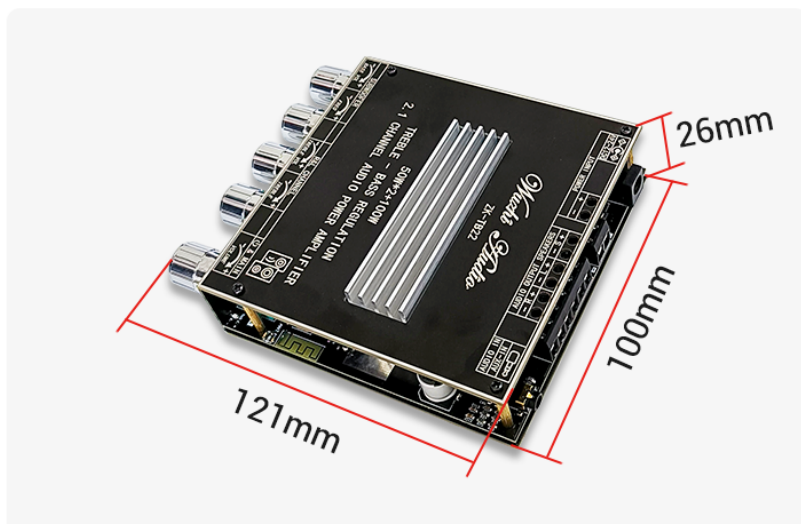**TWS互联**

**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。

# 7. 产品参数

## 产品参数



| | |
|---|---|
| 品牌： | Wuzhi Audio |
| 型号： | ZK-TB22 |
| 名称： | 2.1声道50W+50W+100W高音低音炮调节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 |
| 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： | 121x100x26mm |
| 产品重量： | 净重215g, 含包装258g |

# 8. 安装示意图及包装清单

安装示意图及包装清单

M2*3螺丝

上盖板

旋钮帽

PCB板

下盖板

M2*3+3铜柱

M2*20铜柱

M2*3螺丝
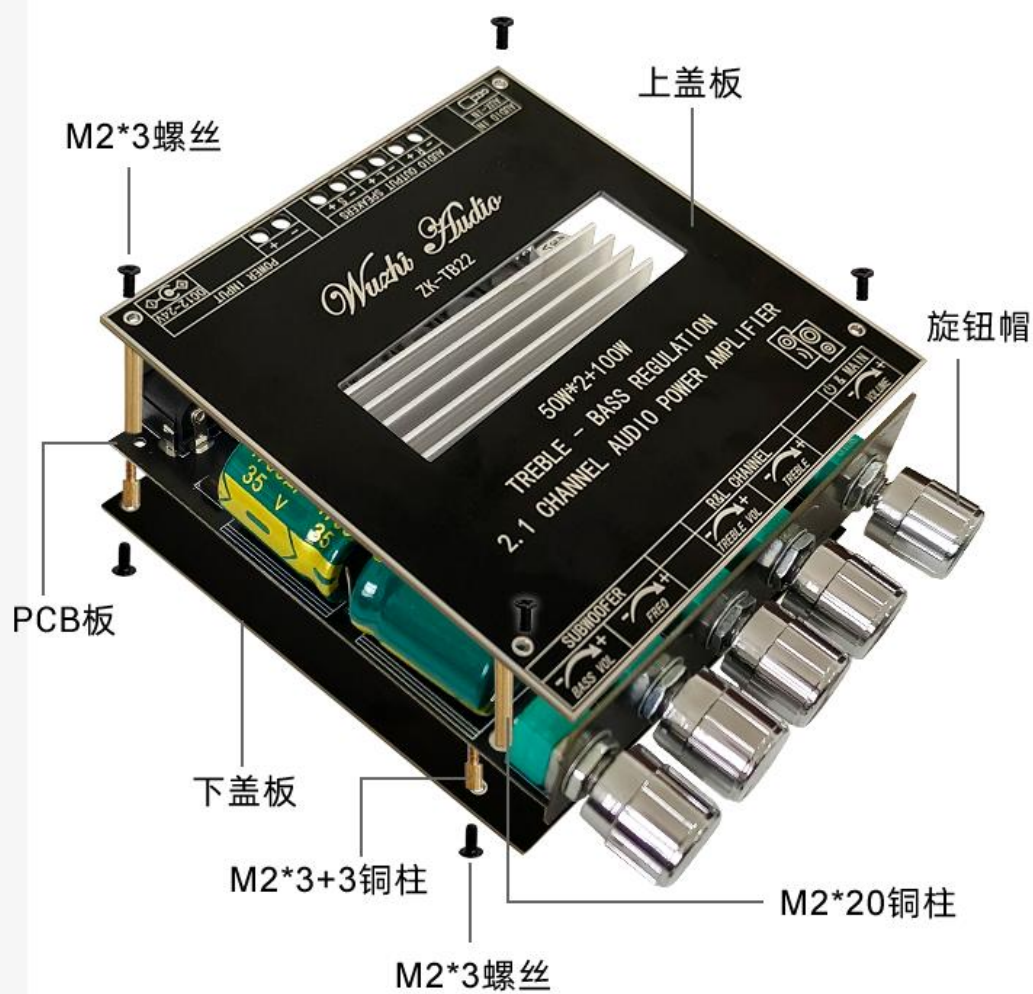
赠送：

# 9．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】
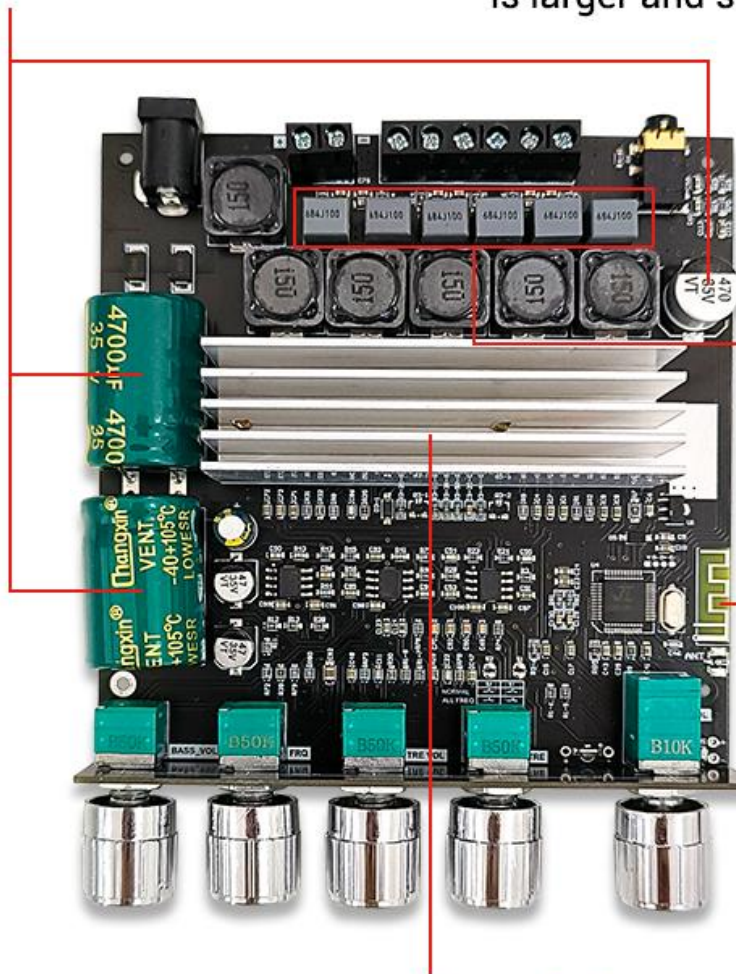
# ZK-TB22 50W*2+100W TWS true wireless TPA3126D2 2.1 channel BT audio amplifier module

# Catalogue

# 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



Subwoofer volume

Stereo volume

Main volume

Subwoofer frequency adjustment

Stereo high pass frequency adjustment

**Multifunction button**
↓
Click: Play / Pause
Double click: Next
Three Click: select or cancel the box matching mode

# 3. Short circuit output bass emphasis
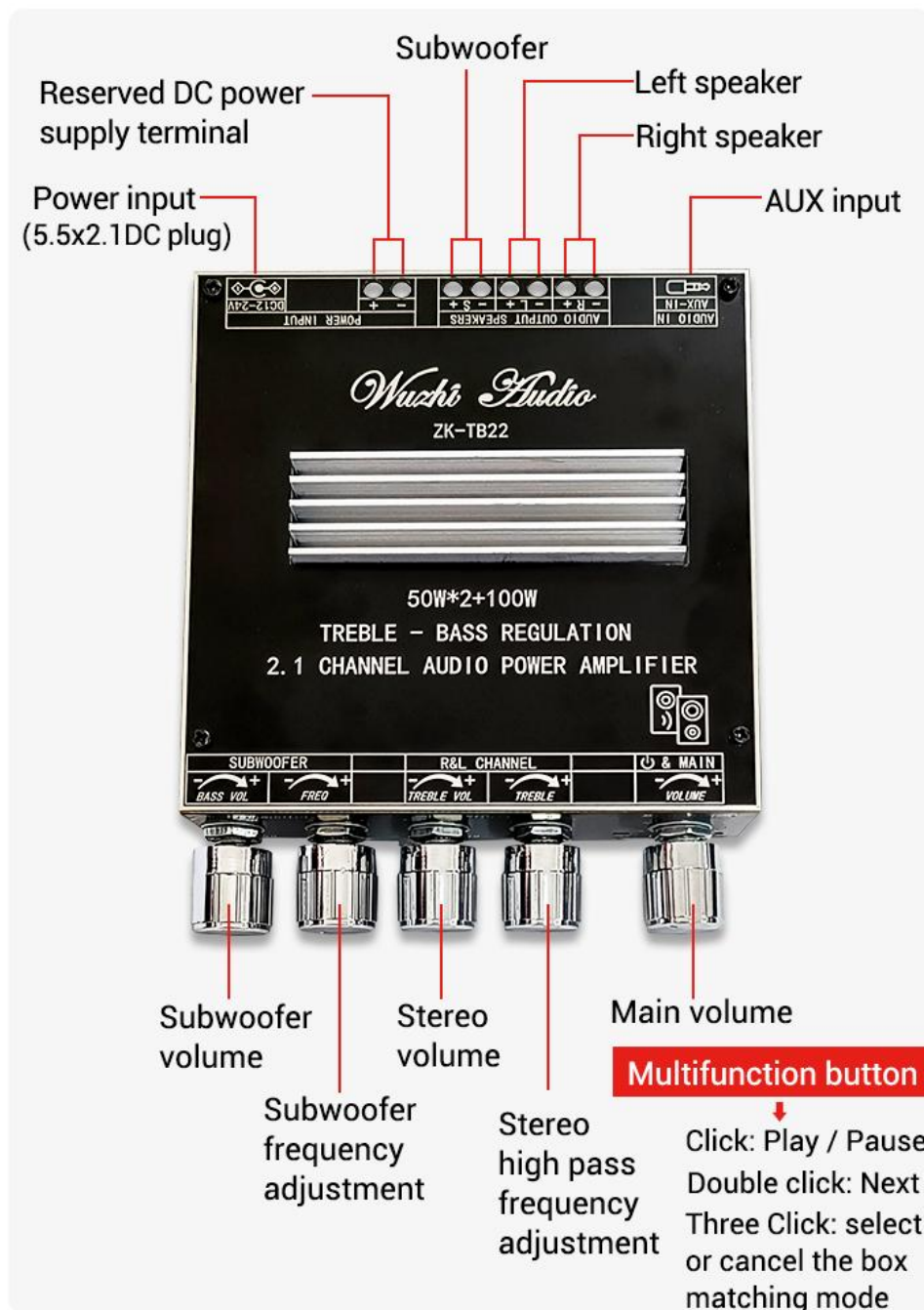
## Short circuit output bass emphasis
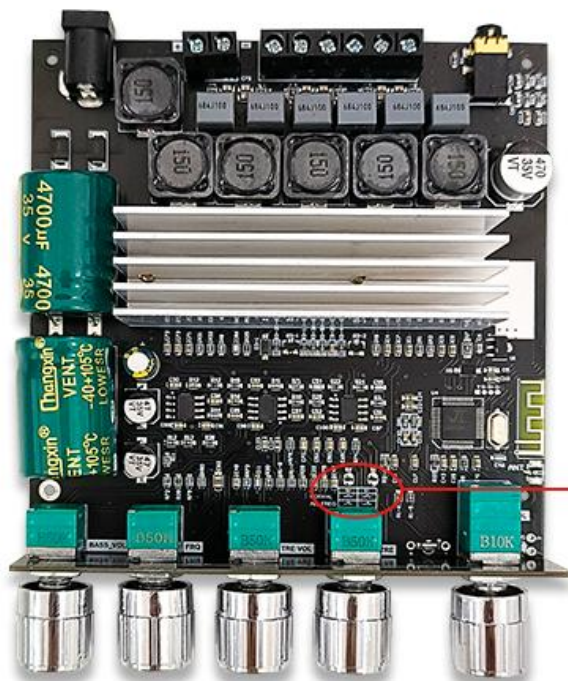


**Short circuit S1 and S2 stereo output Bass emphasis**

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



Subwoofer

Reserved DC power supply terminal

Left speaker

Right speaker

Power input (5.5x2.1DC plug)

AUX input

Wuzhi Audio

ZK-TB22

50W*2+100W

TREBLE – BASS REGULATION

2.1 CHANNEL AUDIO POWER AMPLIFIER

Subwoofer volume

Stereo volume

Main volume

**Multifunction button**

Subwoofer frequency adjustment

Stereo high pass frequency adjustment

Click: Play / Pause

Double click: Next

Three Click: select or cancel the box matching mode

# 5. 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**
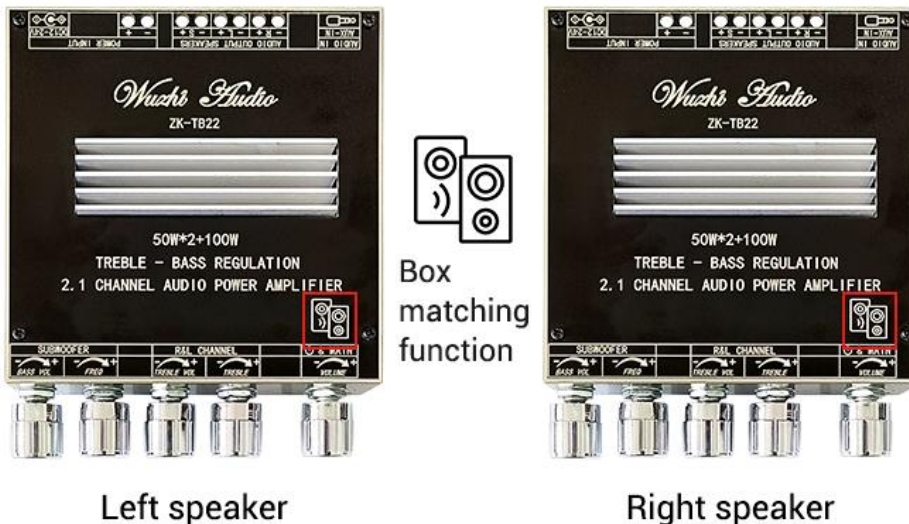
The prompt tone can be turned on or off.

**Firmware Update**

# 6. 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.

# 7.   Product parameters

## Product parameters
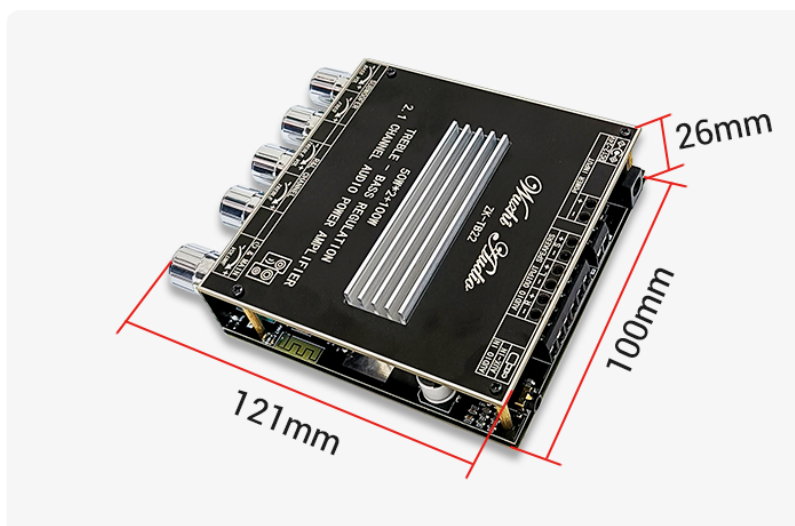


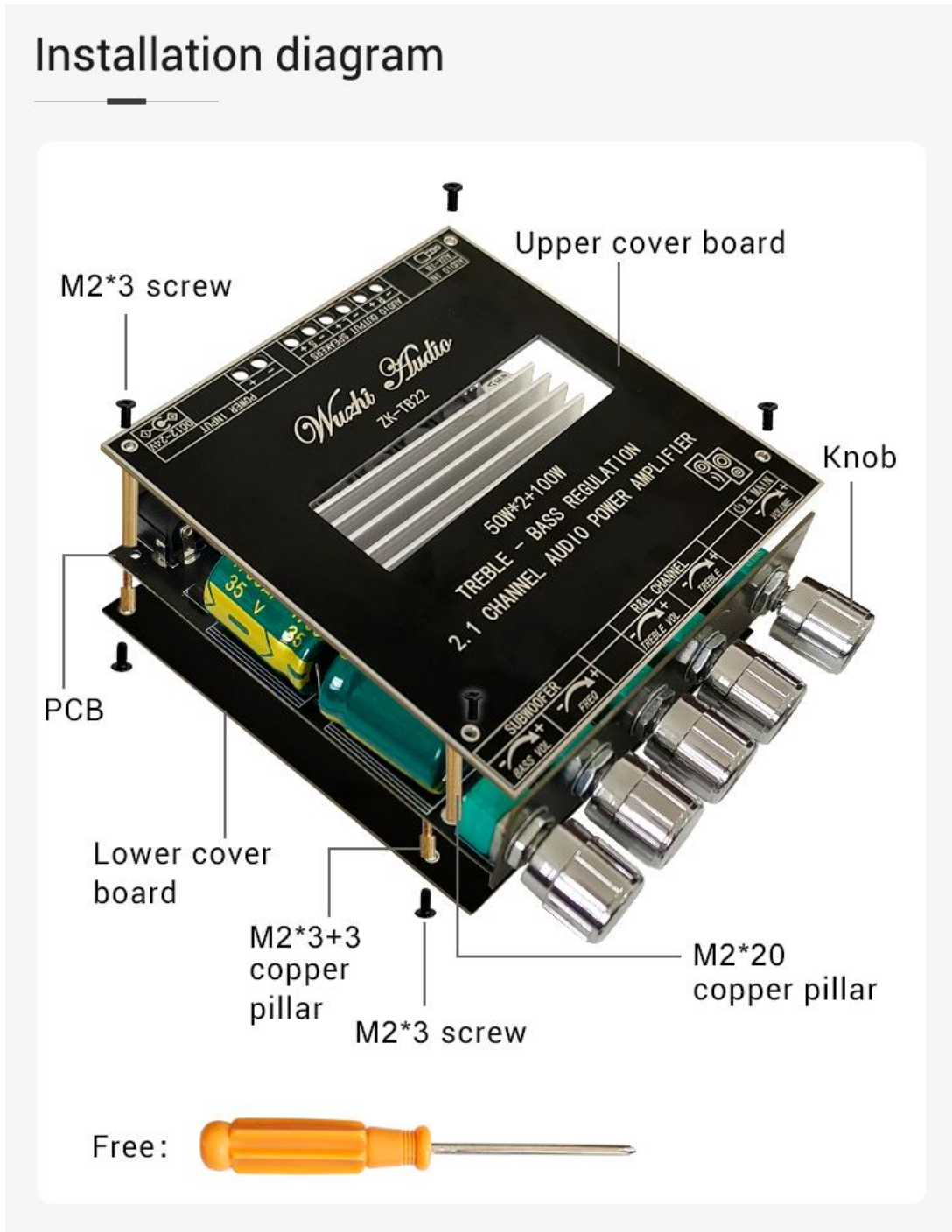| | |
|---|---|
| Brand： | Wuzhi Audio |
| Model： | ZK-TB22 |
| Name： | 2.1 channel 50W x2+100W treble and subwoofer BT audio power amplifier |
| Amplifier chip： | TPA3116D2 |
| BT version： | 5.1 |
| BT transmission distance： | 10m (if you need more distance, please connect external antenna by yourself) |
| 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 |
| 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： | 121x100x26mm |
| Product weight： | Net weight 215g，Weight with package 258g |

# 8. Installation diagram



Installation diagram

Upper cover board

M2*3 screw

Knob

PCB

Lower cover board

M2*3+3 copper pillar

M2*20 copper pillar

M2*3 screw

Free:

# 9. 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]