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## 1. Product Description

The BSAD-202 is a 2-in-1 Bluetooth receiver and transmitter incorporating the latest "aptX Low Latency" codec for Bluetooth High quality audio streaming.

The BSAD-202 is simple to use and enables any audio device to transmit and receive. It can be used to enable a phone to transmit music to a home stereo system, or just as easily, to allow a CD player or other device to transmit music to a Bluetooth enabled speaker system or headphones.

With its low latency codec, BSAD-202 also supports online game playing; TV/Movie audio transmission; real-time music recording, etc.

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## 2. Product Overview

- (1) LED Indicator
- (2) Multi-Function Button (MFB)  
(Power On/Off / Pairing / Pause / Play)
- (3) Micro USB charging socket
- (4) 3.5mm audio jack
- (5) TX / RX switch

### **What's in the box:**

- BSAD-202
- 3.5mm audio cable
- RCA audio cable
- 3.5mm audio connector
- USB charging cable
- User manual
- Quick guide
- Warranty card

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### 3. Charging



BSAD-202 comes with a built-in rechargeable battery that provides for long periods of operation and standby time.

We recommend charging the battery fully before using BSAD-202 for the first time.

- Insert one end of Micro USB charging cable to BSAD-202 Micro USB socket and plug the other end into a standard USB power source, such as a laptop or desktop computer.
- The battery takes 3 hours to charge to its full capacity for the first time. Each subsequent charge cycle should then take around 2 hours.
- The LED indicator will show red when charging and will go out when charging is complete.
- If you have not used the device for a few months, the LED might not show red when first charging. It may take 15-35 minutes before the LED lights up.
- We recommend fully charging the device at least every two months.

\*Charging times may vary when using different chargers.

### 4. Transmitter - Turn On / Off

Slide TX / RX switch to TX position before turning on. The TX or RX mode cannot be changed after powering up BSAD-202.

**Turn On:** Press and hold the MFB for about 2 seconds until the LED lights blue for 1 second.

**Turn Off:** Press and hold the MFB for about 2 seconds until the LED shows red for 1 second and then goes out.

**Note:** For first time use or first time turn on after the connection list has been cleared, in transmit mode BSAD-202 will automatically enter pairing mode, indicated by the LED indicator flashing blue quickly.

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## 5. Transmitter - Pairing with a Bluetooth device

Once BSAD-202 is powered up in TX mode and has connected to a bluetooth stereo device, you can stream music wirelessly. Before pairing, please make sure your Bluetooth stereo receiver device supports the Bluetooth A2DP profile

### 5.1 Pairing procedure:

- 1) Ensure BSAD-202 is set to TX mode and that the device is off.
- 2) Plug the 3.5 mm audio cable into BSAD-202, and plug the other end into the audio output of audio source system (iPod, TV, Amplifier etc.)
- 3) Power on your Bluetooth stereo receiver and set it in pairing mode.
- 4) Press and hold BSAD-202's MFB for around 4 seconds, until the LED indicator blinks blue quickly - indicating pairing mode.
- 5) Place BSAD-202 within 1 meter of your Bluetooth receiver. BSAD-202 will then automatically search, pair and connect with your Bluetooth receiver.
- 6) After successful connection, the LED indicator will blink blue slowly.

### Notes:

- 1) BSAD-202 will flash the LED indicator blue 3 times within 5 seconds of connecting with another Bluetooth device which also has an aptX low latency codec. When both transmitter and receiver incorporate aptX low latency codecs, this will provide for low latency and higher audio quality audio compared with standard Bluetooth audio devices.
- 2) Pairing mode lasts for 2 minutes. If no devices can be connected within 2 minutes, BSAD-202 will enter standby mode.

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3) BSAD-202 will pair with stereo Bluetooth receiver devices with the PIN codes “0000”, “1111”, “8888” or “1234”.

## 5.2 LED indications:

| LED indicator                                | Status of BSAD-202 under TX mode                 |
|----------------------------------------------|--------------------------------------------------|
| LED blinks BLUE continuously                 | Pairing mode, lasts for 2 minutes                |
| LED flashes BLUE once every second           | Standby mode - not connected to any other device |
| LED flashes BLUE once every 5 seconds        | Device connected with SBC                        |
| LED flashes BLUE twice every 5 seconds       | Device connected with aptX                       |
| LED flashes BLUE three times every 5 seconds | Device connected with aptX low latency           |
| LED blinks RED                               | Low battery power - Please recharge              |

We find that most problems are caused by improper pairing. Please follow the online instructions step-by-step!

## 6. Receiver - Turn On / Off

Slide TX / RX switch to RX mode before turning on. The TX or RX mode cannot be changed after powering up BSAD-202.

**Turn On:** Press and hold BSAD-202's MFB for around 2 seconds until the LED indicator shows blue for 1 second.

**Turn Off:** Press and hold the MFB for around 2 seconds until the LED shows red for 1 second and then goes out.

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## 7. Receiver - pairing with a Bluetooth device

### 7.1 Pairing procedure:

- 1) Ensure BSAD-202's TX/RX switch is set to RX mode and that the device is off.
- 2) Plug the 3.5 mm audio cable into BSAD-202's 3.5 mm audio socket and plug the other end into the audio input of your home hi-fi stereo system.
- 3) Press and hold BSAD-202's MFB for around 4 seconds until the LED indicator quickly blinks blue and red alternately, indicating in pairing mode.
- 4 Place BSAD-202 within 1 metre of your Bluetooth enabled phone. Set your smartphone to Bluetooth mode: Taking iPhone as an example: from your iPhone home page, tap **"Settings"**      **"General "**      **" Bluetooth"**      **" On"**  
  
(Note: Different phones or tablets have different procedures to activate Bluetooth mode and to pair and connect with other Bluetooth devices. The instructions here are just for general guidance - please check your phone or tablet's documentation in case of difficulties).
- 5) iPhone will auto scan the available Bluetooth devices. Click on "BSAD-202" from the list of devices shown and according to the indication offered, tap on "Yes" or "Confirm" .
- 6) After pairing successfully, BSAD-202's LED indicator will blinks blue slowly.

### Notes:

- 1) Pairing mode will last 2 minutes. The receiver will enter standby mode if no devices can be connected within 2 minutes.
- 2) If pairing fails, please power off BSAD-202 and re-pair according to above procedures.
- 3) BSAD-202 can remember 8 paired devices. When the number of paired devices exceeds 8, the oldest one will be removed from the list.
- 4) Every time BSAD-202 powers on, it will connect to the last connected device automatically. If you want to pair it to another devices, please turn off the current paired device's Bluetooth mode and then try to pair BSAD-202 to the new device, according to the above pairing procedure.

### 7.2 LED Indications:

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| LED indicator                                | Status of BSAD-202 under RX mode                 |
|----------------------------------------------|--------------------------------------------------|
| LED blinks BLUE then RED continuously        | Pairing mode. Lasts for 2 minutes.               |
| LED flashes BLUE once every second           | Standby mode. Not connected to any other device. |
| LED flashes BLUE once every 5 seconds        | Device connected with SBC                        |
| LED flashes BLUE twice every 5 seconds       | Device connected with aptX                       |
| LED flashes BLUE three times every 5 seconds | Device connected with aptX low latency           |
| LED flashes BLUE four times every 5 seconds  | Device connected with AAC decode                 |
| LED blinks RED                               | Low battery power. Please recharge.              |

## 9. Reconnect

- A. **Automatic connect:** When BSAD-202 is powered up, it will automatically reconnect with the last connected device.
- B. **Manual connect:** When BSAD-202 is in standby mode and not connected to any device, a single short press of the MFB will automatically reconnect the last connected device.
- C. **Auto off:** BSAD-202 will automatically power off if no devices are connected within 30 minutes. Note: if BSAD-202 is connected the charger cable, the auto power off function is disable until disconnected the charger cable.

## 10. Restore Factory Default Setting

Ensure BSAD-202 is powered off, then press and hold the MFB for 10 -12 seconds, until both the BLUE and RED LEDs are both on for about one second.

## 11. Product Specification

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#### • *Bluetooth 3.0*

- Bluetooth profile: A2DP and AVRCP
- Audio codec: aptX-LL, aptX, SBC, AAC
- Operating Range: Class 2, 10 meters
- Support Two link function RX/TX
- TX mode battery hours: up to 15 hours
- RX mode battery hours: up to 10 hours
- Standby time: up to 150 hours
- Charging time: around 2-3 hours
- Charging input voltage: DC 5V
- Battery: 270mAH rechargeable LI-Lon battery
- Weight: Approx 48.5g
- Size: 50mm(L) x 37mm(W) x 13mm(H)

Working and standby times may vary when used with different mobile phones or other Bluetooth devices, usage settings, usage styles and environments.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.