



MPOW BH259A Wireless Receiver and Transmitter Adapter User Manual

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About aptX/ aptX Low Latency/ aptX HD

- aptX can give you consistent, high-quality audio over Bluetooth device.
- aptX Low Latency ensures your Bluetooth wireless enabled device can deliver sound in sync with visual media. With aptX Low Latency you can enjoy the freedom of wireless for applications such as gaming and watching videos.
- aptX HD ensures your Bluetooth wireless enabled device can deliver High Definition (HD) audio. With aptX HD, you can enjoy listening to your music at the highest audible quality when using a wireless device.

Codec of only one connected device in TX mode		
Your Headphone support	The final transmission Codec will be	The audio delay will be
aptX HD	aptX HD	/
aptX Low Latency	aptX Low Latency	<~40ms
aptX	aptX	<~130ms
SBC	SBC	<~220ms

Codec of two connected devices in TX mode			
Your First Headphone support	Your Second Headphone support	The final transmission Codec will be	The audio delay will be
aptX HD	aptX HD	aptX HD	/
aptX Low Latency	aptX Low Latency	aptX Low Latency	<~40 ms
aptX	aptX	aptX	<~130 ms
aptX HD/ aptX Low Latency / aptX /SBC	SBC	SBC	<~220 ms
aptX Low Latency/ aptX	aptX HD	SBC	<~220 ms
aptX Low Latency	aptX	SBC	<~220 ms

RX Mode:

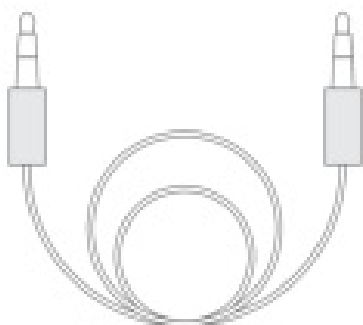
When you connect tv..to phones, the final transmission Codec depends on the phone which is playing. If the phone supports aptX (or aptX LL or aptX HD), the final transmission Codec will be aptX (or aptX LL or aptX HD). if the phone only supports SBC, the final transmission Codec will be SBC.

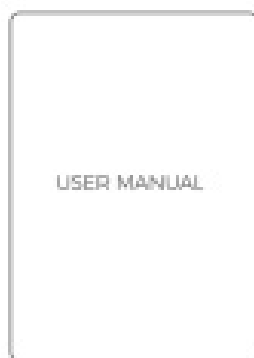
Important Notice:

For "no lip sync delay" when watching TV. movie or playing games. make sure you use a Bluetooth device supporting aptX Low Latency (aptX LL). since most audio receiver devices (Bluetooth headphone, Bluetooth speaker) don't support this technology.

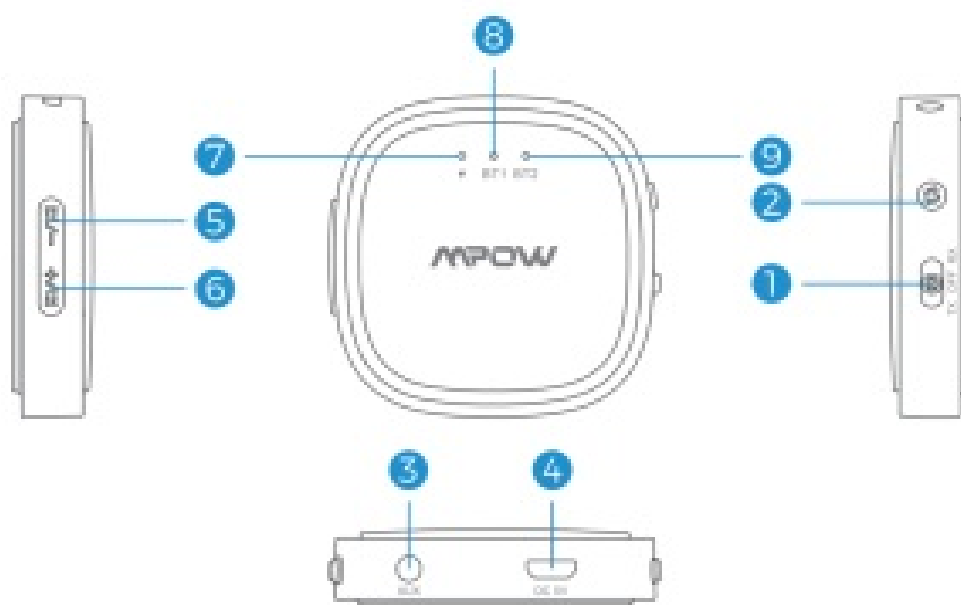
aptX Low Latency (aptX LL) certified products:

<https://www.aptx.com/zh-hans/products?>





DIAGRAM



1. TX-OFF-RX Switch
2. Bluetooth function Button: Short press to enter pairing mode, long press for 3s to interrupt connection
3. AUX Port (AUX Stereo Input/ Output Port)
4. Micro USB Charging Port
5. Previous Track (short press)/ Volume Down (long press): only available for RX
6. Next Track (short press)/ Volume Up (long press): only available for RX
7. ⚡ Power Indicator Light
8. BT1: NO.1 Bluetooth Pairing Indicator Light
9. BT2: NO.2 Bluetooth Pairing Indicator Light

SPECIFICATIONS

Bluetooth Version	5.0
Bluetooth Solution	CSR8675BH259
Product Model	BH259
Bluetooth Protocol	A2DP / AVRCP
Battery Capacity	li-ion 250 mAh
Working Current	20-30 mA
Working Voltage	DC 3.7 V-4.28 V
Frequency Range	2.402 GHz-2.480 GHz
Codecs: AAC /SBC/ aptX™ / aptX™ Low Latency/ aptXTM HD	
Connection Method: 3.5mm Aux	

LOW LATENCY FUNCTION INSTRUCTIONS

Both Bluetooth RX mode and Bluetooth TX mode can support aptX™ HO (APTX-HO) / aptX™ Low Latency (APTX-LL) / aptX™(APTX).

Tips: If you want to use BH259's APTX-HD / APTX-LL/ APTX function:

TX Transmit Mode: Your Bluetooth headphone or Bluetooth speaker etc. should support APTX-HD / APTX-LL / APTX.


X Receive Mode: Your Bluetooth-enabled smartphone etc. should support APTX-HD / APTX-LL / APTX.

If you want to experience APTX-HD / APTX-LL / APTX function with two devices connected to BH259, both devices should support APTX-HD / APTX-LL / APTX.

TX-OFF-RX Switch

Convert via the “**TX-OFF-RX**” switch, TX (Green indicator) Turn the switch to “TX”. BH259 power on and enters

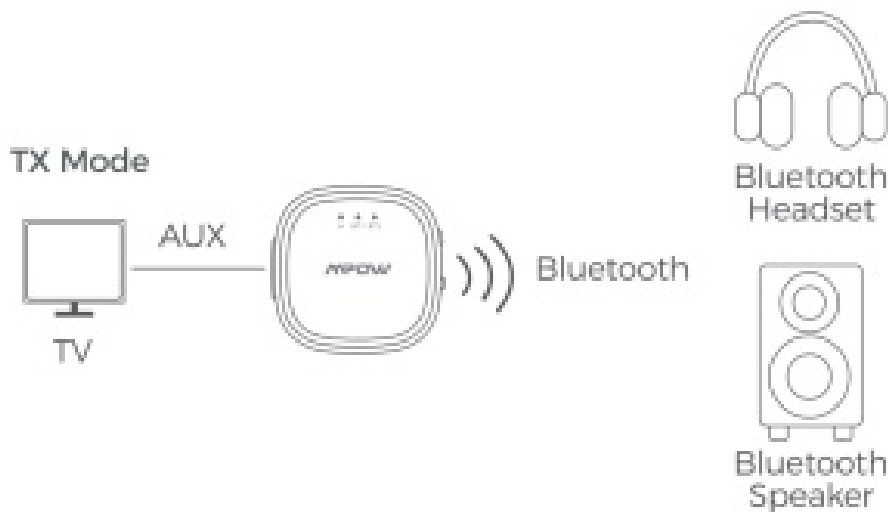
Bluetooth TX mode: Power Indicator Light  stays green and BT1 flashes green quickly.

RX (Blue indicator): Turn the switch to “RX”. BH259 powers on and enters Bluetooth RX mode: Power Indicator Light  stays Blue and BT1 flashes blue quickly.


OFF: Turn the switch to “OFF”. BH259 powers off with all the indicator lights out.

Transmitter Mode


To enter Bluetooth Transmitter mode, turn the "TX/OFF-RX" switch to the "TX" position. Connect BH259 to a non-Bluetooth multimedia device (such as TV, PC) via a 3.5 mm audio cable. Then, the audio source from a multimedia device (such as TV, PC) can be transmitted to a Bluetooth headphone or Bluetooth speaker via BH259's Bluetooth transmission.



Connection to the First Bluetooth Headphone

1. For the first use, please pair BH259 to a Bluetooth headphone or Bluetooth speaker after 3.5 mm audio cable connected.
2. After BH259 powers on, it enters pairing mode automatically (or to enter pairing mode by short pressing the “” button) with the BT1 indicator light flashing green quickly. (The BT2 indicator light will not light on.)
3. Turn on your Bluetooth headphone or Bluetooth speaker etc., ensure the distance is within 1 meter. It may take 5 – 30 seconds to complete the automatic connection.
4. When the connection is complete, the BT1 indicator lights for different codecs can be shown as follows:
 - A:** The BT1 green indicator light stays on (SBC transmission).
 - B:** The BT1 green indicator light keeps breathing (APTX or APTX LL or APTX HD transmission).
5. Then, you can enjoy music or TV program via your Bluetooth headphone or Bluetooth speaker.


Connection to Two Bluetooth Headphones

1. After completing the connection to the first headphone, short press the “” button on BH259. BT2 indicator light flashes green quickly, and BH259 will enter pairing mode. The first connected device won't be affected and can function normally.
2. Turn on the second Bluetooth headphone or Bluetooth speaker etc. Ensure the distance is within 1 meter. It may take 5-30 s to complete the automatic connection between BH259 and your Bluetooth headphone or Bluetooth speaker.
3. After completing the connection to the second headphone, the corresponding indicator lights for different codecs can be shown as follows:
 - A:** The BT1 and BT2 green indicator lights will stay on (SBC transmission: if either headphone just supports SBC).

B: The BT1 and BT2 green indicator lights will keep breathing (APTX transmission: both headphones support APTX. APTX LL or APTX HD).

4. Then, BH259 is paired with two Bluetooth headphones or two Bluetooth speakers simultaneously.

Disconnect the Current Connection

When BH259 is connected to one or two Bluetooth headphones or Bluetooth speakers, long press the “” button for 3 seconds to disconnect the current devices. Then, it enters pairing mode with the BT1 green indicator light flashing quickly.


Note: It's recommended to turn off the current headphone paired with BH259 when you need to pair a new one with it.

Receiver Mode




To enter Bluetooth Receiver mode, turn the “TXOFF-RX” switch to “RX” position. Connect BH259 to a non-Bluetooth speaker, car stereo or headphone etc. via a 3.5 mm audio cable. Then, pair BH259 to a Bluetooth-enabled smartphone etc. via Bluetooth. The music from your phone will be transmitted to a speaker, car stereo or headphone etc.

Connection to One Smartphone

1. For the first use, please pair BH259 to a smartphone or other smart devices after 3.5 mm audio cable connected.
2. BH259 will enter pairing mode directly with BT1 blue indicator light flashing quickly after it powers on (or enter pairing mode by short pressing the “” button).
3. Enable Bluetooth on your smartphone, search “BH259A” and click to connect. When the connection is complete, the corresponding indicator lights for different codecs can be shown as follows:
 - A:** The BT1 blue indicator light stays on (AAC or SBC transmission).
 - B:** The BT1 blue indicator light keeps breathing (APTX or APTX LL or APTX HD transmission)
4. Enter the code “0000” if needed.

Connection to Two Smartphones

1. After completing the connection to the first smartphone, short press the “” button to enter Pairing mode with BT2 blue indicator light flashing quickly (the first smartphone can still work normally).
2. Enable Bluetooth on the second smartphone, search “BH259A” and click to connect.


3. When the connection to the second smartphone is complete, the corresponding indicator lights for different codecs can be shown as follows:

A: The BT1 and BT2 blue indicator lights will stay on (SBC or AAC transmission).

B: The BT1 and BT2 blue indicator lights will keep breathing (APTX or APTX LL or APTX HD transmission).

Note: If you want to change the music source from the first smartphone to the second one, pause the first smartphone, then you can play music on the second smartphone after 5 seconds.


Disconnect the Current Connection

When BH259 is connected to one or two smartphones, long press the “” button for 3 seconds to disconnect the current devices. Then, it enters pairing mode with the BT1 blue indicator light flashing quickly.

Note: If you need to connect BH259 to a new one, please disable Bluetooth on the paired smartphone.

Play Music

Next Track: Short press the “” button.

Previous Track: Short press the “” button.

Volume Up: Long press the “+” button.

Volume Down: Long press the “-” button.

Bluetooth Automatic Reconnection

1. Bluetooth connection will be disconnected, when the distance away from BH259 exceeds the Bluetooth range or BH259 powers off.

2. RX Reconnection:

When the distance away from BH259 is within the Bluetooth range in 10 min or BH259 powers on again.


BH259 will enter reconnection mode: the blue indicator light flashes slowly (RX). Then, the two devices paired before the disconnection will be reconnected with BH259.

3. TX Reconnection:

When the distance away from BH259 is within the Bluetooth range with the green indicator light flashing quickly [TX], BH259 will pair with your Bluetooth headphone.

When BH259 powers on again, it will enter reconnection mode: the green indicator light flashes slowly [TX].

Then, the two devices paired before the disconnection will be reconnected with BH259. BH259 will automatically enter pairing mode.

4. when the reconnection can't be complete after BH259 powers on. Also, you can short press the “” button to enter pairing mode manually reconnection mode.

Note: In TX mode, if the Bluetooth headphone (or Bluetooth speaker)'s pairing list has already been cleared, please clear the pairing list on BH259 simultaneously to complete the connection.

Clear Bluetooth Pairing List


In power-on state, to clear the pairing list paired before and enter pairing mode, long press the “+” and “-” buttons simultaneously for 3 seconds until the three indicator lights flash simultaneously for 1s (The pairing list can't be

cleared in power-off state).

Note:

In Bluetooth receiver mode, please clear pairing list on your smartphone simultaneously to reconnect quickly. BH259 will clear pairing list by itself when you turn the switch between TX and RX.

Low Power Prompt

When the battery is in low power, BH259's indicator  light will flash red quickly. If the power is too low. it will automatically power off.

Charging

When BH259 is in low power or can't power on, you can charge it via a DC 5 V USB charging cable. The red indicator light stays on during the charging process and goes off when the charging is complete.

Automatic Power-saving Function

1. If BH259 hasn't been connected to any devices, it will automatically enter standby mode with 3 indicator lights off after 10 minutes to save power: Short press any button to activate pairing state.
2. In Bluetooth connection state. if it exceeds the effective Bluetooth range, it will disconnect and automatically enter standby mode after 10 minutes to save power. Short press any button to activate pairing state.
3. After BH259 completes the connection in 10 min, 3 indicator lights will go off to save power. Short press any button to activate indicator light.

CONSIDERATIONS

1. If BH259 cannot be paired with two devices, please reboot BH259 and try pairing again.
2. It's recommended to use headphones with same chips when pairing to two headphones to prevent from intermittent music, silent sound or disconnection etc.
3. In Bluetooth transmitter mode. BH259 can be paired with a Bluetooth headphone and a Bluetooth speaker. BH259 can't be paired with smartphone or other similar devices.
4. For a better music quality. it's recommended to select headphones of a same model when pairing BH259 to two headphones.
5. To complete the Bluetooth pairing, it's recommended to use BH259 in the place where there are few obstructions or other Bluetooth devices using.
6. If the pairing fails, please clear the pairing list on BH259 and smartphones etc. and try pairing again, Meanwhile. check whether BH259 is in Bluetooth pairing mode. Also. you'd better turn off other Bluetooth devices.
7. In RX mode, BH259 cannot support hands-free calling because it has no mic function.

CORRECT DISPOSAL OF THIS PRODUCT



(Waste Electrical & Electronic Equipment) This Marking shown on the product or its literature, indicate that it should not be disposed with other household wastes at the end of its working life.

To prevent possible harm to the environment or human health from uncontrolled waste disposal. please separate

this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources. Household user should contact either the retailer

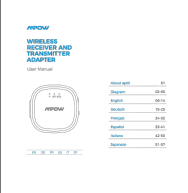
FCC STATEMENT

Operation is subject to the following three conditions:
(1) This device may not cause harmful interference.
(2) This device must accept any interference received. including interference that may cause undesired operation.
(3) This device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.
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.



Documents / Resources

	<p>MPOW BH259A Wireless Receiver and Transmitter Adapter [pdf] User Manual BH259A, Wireless Receiver and Transmitter Adapter</p>
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