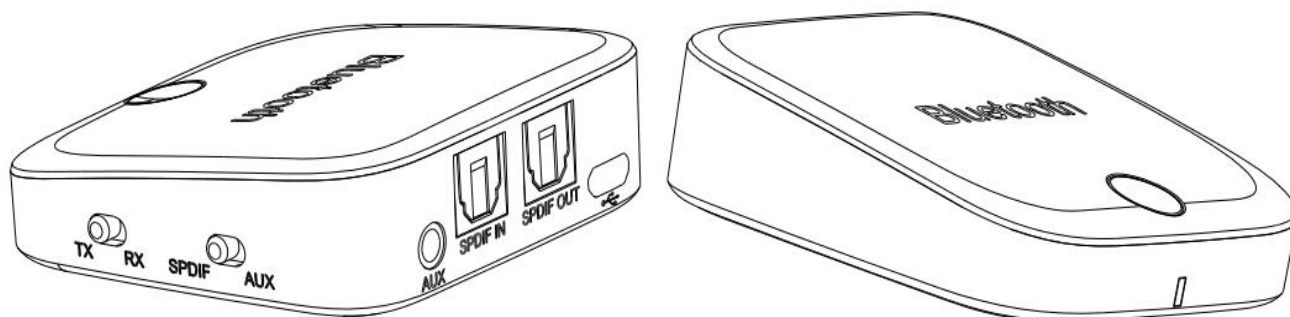


# SK-BTI-029 Toslink/SPDIF Bluetooth transmitter & receiver

## User manual



Welcome to use Toslink/SPDIF Bluetooth transmitter & receiver SK-BTI-029

### ➤ **Production description:**

SK-BTI-029 is a Bluetooth transmitter and receiver with Toslink.

When used as a Bluetooth transmitter, it can transfer the music on your mobile, Walkman, TV, computer, etc to your Bluetooth receiver, Stereo Bluetooth headphone, and Bluetooth speakers through wireless technology.

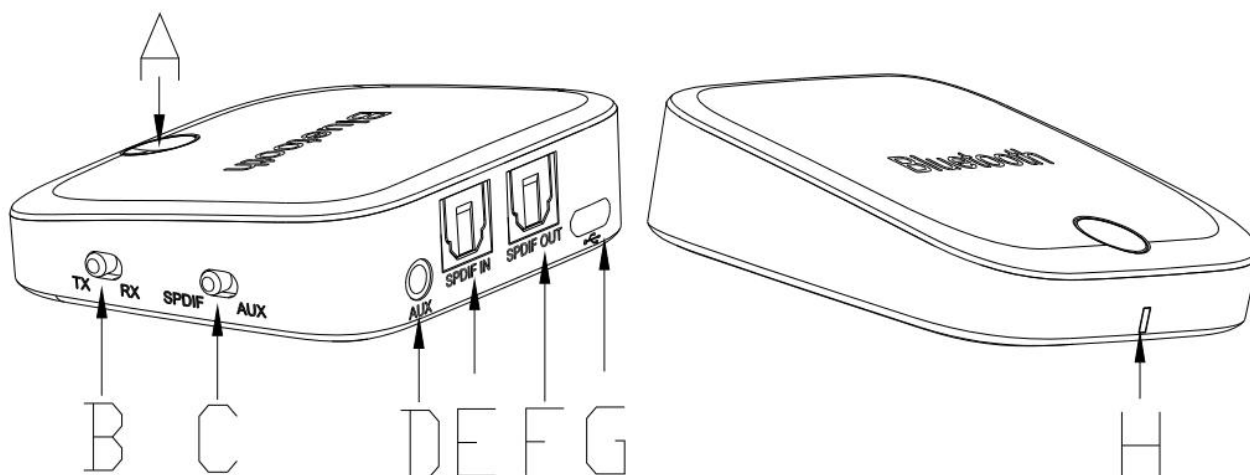
When used as a Bluetooth receiver, it can be a stereo Bluetooth headphone (by plugging headphone audio cable into 3.5mm port), or connecting with speaker to receive audio signal through wireless.

Please read the user manual carefully before use the unit.

### ➤ **Preparation before use**

when ready to use SK-BTI-029, you need fully charged of SK-BTI-029, music players, mobile phones, televisions or computer support Fiber optic interface or 3.5MM audio interface output devices.

### ➤ **Product picture and function definitions:**



A.Power button

B.TX(transmitter) ,RX(receiver) switch function

C, interface selector switch (AUX: 3.5mm audio interface; SPDIF: optical interface)

D, 3.5MM audio line interface (audio input / output)

E, optical fiber input interface

F, optical output interface

G, Micro USB charging port

H, LED indicator

➤ **Specification:**

Model No	SK-BTI-029
Bluetooth Version	V4.1 , Class II
Chipset	CSR BC8670
Frequency	2.402GHz-2.480GHz
Receiver working time(AUX)	15Hours
Transmitter working time(AUX)	15Hours
Receiver working time(SPDIF)	12Hours
Transmitter working time(SPDIF)	12Hours
Charging time	About 2Hours
Bluetooth Profile	RX:A2DP AVRCP TX:A2DP
Support dual stream ( TX mode )	support(one transmitter connect two Bluetooth speaker or Headphone(use one CEDEC at the same time)
Support dual connection in receiver mode	Support connecting with two mobile phone
Support for Bluetooth headset, Bluetooth receiver, Bluetooth speakers and other device keys	0000 , 1111 , 1234 , 8888
CODEC	TX: Priority APT-X, Second SBC, Third: APTX-LL; Fourth: FastStream RX:SBC
APTX tips	CODEC Single connection, priory support APT-X LL , 48kHz CODEC (headset or speaker must also support APT-X ); Two connections, it will switch to SBC CODEC automatically
Battery	350mAh rechargeable lithium battery
Charging supply	100-240V AC Adapter 5VDC, ≥300mA
Working temperature	-10—55℃
Net weight	About 38.6g
Dimension	60*60*18.4mm

**Operation:**

SK-BTI-029 charging:

## 1.First time charging :

Please fully charged the model SK-BTI-029 before using.

### ➤ 2.Charging in low power

When the red LED light is flashing in normal use, it indicates that the SK-BTI-029 is in low battery mode and needs to be recharged(it is normal for the blue and red LED light overlap when using in low power and charging while working)

A, Connect the charging cable to the charging adapter(with USB output connector) or to the computer.

B, and then connect the Micro USB side to the SK-BTI-029.

C, The red LED light on whiling charging, red LED off when fully charged..

D, the charging time takes about 2 hours.

### ➤ SK-BTI-029 working as transmitter function and LED instruction

- SK-BTI-029 is through toggle switch to select the mode is transmitter or receiver mode after powered on. In power off status, switch to "TX" end, and long press "multi-function key" to power on, all paired device information will be cleared in RX mode after powered on!!!!Please don't switch TX/RX mode within 3 seconds after powered off, because the chipset has not been fully powered down, the mode is maybe still keep the same state as before powered off if you switch the mode.
- SK-BTI-029 can store 4 devices information used as a transmitter, the exceed device information will be replaced by new device information ( why is store 4 ? Because the SK-BTI-029 will re-connect all the paired devices after powered on, it will take long for too many devices)
- SK-BTI-029 automatically re-connection time : 7 seconds for the unit has 1 paired record, 12 seconds for the unit has 2 paired records ,17 seconds for the unit has 3 paired records , 22 seconds for the unit has 4 paired records.

## 1. Power on

In off state, press MFB around 3 seconds, Blue LED flashes twice, SK-BTI-029 is powered on. (If SK-BTI-029 did not connect with any device, it could enter into pairing mode quickly with Blue LED flashes after power on)

## 2. Power off :

In on state, press MFB around 3 seconds, Red LED flashes twice ( if release after Red LED immediately, Red LED may only flashes once), SK-BTI-029 power off. Please re-power on the unit after power off the unit 3 seconds later since the voltage of the chipset may not disappear totally.

## 3. Pairing mode :

Power on the unit, double click the MFB, the Blue LED flashes quickly to enter pairing mode.

## 4. Clear up the pairing list :

Power off with the current working mode(TX or RX), 3 seconds later, switch to the other working mode, then power on, the pairing information for the former mode will be cleared up.

## 5.Re-connect with all the connected device:

Power on the unit ( using two connections simultaneously ), short press MFB to connect all the connected device automatically, but it only support two devices connection simultaneously, prioritize the latest two connected devices, successfully connected, BTI-029 is solid blue. If BTI-029 could not connect with any device in 22 seconds (This is up to how many paired device BTI-029 stored), it will enter into pairing mode. When used as Bluetooth transmitter, it support two connected devices transfer Audio simultaneously.

#### **6. Power off automatically**

The SK-BTI-029 will power off automatically when the battery voltages lower than 3.1V.

#### **7. Pairing status:**

Blue Led light flash quickly used as Bluetooth transmitter status.

#### **8. No connection standby status:**

Blue Led light flash once every second in no connection standby status

#### **9. Connected standby status:**

Blue Led long light in connected standby status

#### **10. Low battery status :**

Low battery status (RX):red LED flashes once every one second , and it will cover other Led light (Charging immediately or power off will remove this status).

#### **11. Interface switching:**

In off state or working state, switch between AUX and SPDIF through the toggle switch(If choose SPDIF mode,the optical interface using SPDIF IN in TX mode)

#### **12. SK-BTI-029 working while charging**

When need to use the SK-BTI-029 for long time, due to the limited built-in battery usage time, it allowed to connect the charging power supply (DC 5V  $\geq$ 300mA, when the battery is low or when the power supply of poor quality may cause the current sound appears); operation steps: connect the charging power and then power on SK-BTI-029,(because the chipset will reset operation when insert charging power supply, can resume normal use when SK-BTI-029 software crashes).,Note: it is not recommend to use this function while charging , otherwise it may affect battery life.

#### **➤ SK-BTI-029 working as receiver function and LED instruction**

- SK-BTI-029 is through toggle switch to select the mode is transmitter or receiver mode after powered on. In power off status, switch to "RX" end, and long press "multi-function key" to power on, all paired device information will be cleared in TX mode after powered on!!!Please don't switch TX/RX mode within 3 seconds after powered off, because the chipset has not been fully powered down, other wise it will enter into the previous power off mode to re-turn on

SK-BTI-029 worked as Bluetooth Receiver can store 8 paired devices record , the latest paired records will be replaced by new paired records.(but the re-connection time will increase for more Stored paired device,SK-BTI-029 automatically re-connection time : 7 seconds for the unit has 1 paired record, 12 seconds for the unit has 2 paired records ,17 seconds for the unit has 3 paired records , 22 seconds for the unit has 4 paired records)

#### **1. Power on:**

In off state, long press MFB around 3 seconds, after Blue LED flashes twice, SK-BTI-029 is powered on. (If SK-BTI-029 did not connect with any device, it could directly enter into pairing mode automatically after power on)

## **2. Power off :**

In on state, long press MFB around 3 seconds, Red LED flashes twice ( if release after Red LED on immediately, Red LED may only flashes once),SK-BTI-029 is powered off. Please don't re-power on the unit immediately in 3 seconds after power off the unit , because the voltage of the chipset may not disappear totally.

## **3. Pairing mode:**

Power on the unit, double click the MFB, Blue & Red LED flashes alternately, the unit enter into pairing mode, it will power off automatically if no connections in 5 minutes.

## **4. Play /pause :**

In music playing, short press MFB to pause, press again to play continually

## **5. Clear up the pairing list :**

Power off with the current working mode, 3 seconds later, change to the other working mode, then power on, the pairing information for the former mode will be cleared up

## **6. Re-Connect with all the connected device:**

Power on the unit,SK-BTI-029 will connect to all the connected device automatically, but it only support two connections simultaneously, prioritize the latest two connected devices, after two connections successful, SK-BTI-029 will be Blue LED light on. (working as Bluetooth receiver, it only could receive audio from the first working device ,If you want to receive signal from the other device, the first working device must have to be pause or turn off . (Bluetooth receiver two in one function).

## **7. Automatic power off:**

When the battery voltage is below 3.1V will automatically shut down;

It will automatically power off if there is no connection under non-matching record after 5 minutes ;

If the product has a matching record, it will automatically power off if there is no connection more than about 6 minutes, it takes about 1 minute to re-connect.

## **8. Pairing status:**

Blue and red Led light flash alternately used as Bluetooth receiver status.

## **9. No connection standby status:**

Blue Led light flash twice every two seconds in no connection standby status

## **10. Connected standby status:**

Blue Led long light in connected standby status

## **11. Low battery status :**

Low battery status (RX):red LED flashes once every one second , and it will cover other Led

light (Charging immediately or power off will remove this status).

## 12. Interface switching:

In off state or working state, switch between AUX and SPDIF through the toggle switch(If choose SPDIF mode,the optical interface using SPDIF OUT in RX mode)

### 12. SK-BTI-029 working while charging

When need to use the SK-BTI-029 for long time, due to the limited built-in battery usage time, it allowed to connect the charging power supply (DC 5V  $\geq$ 300mA, when the battery is low or when the power supply of poor quality may cause the current sound appears); Note: it is not recommend to use this function while charging , otherwise it may affect battery life.

#### ➤ Working in Transmitter mode

##### **1,SK-BTI-029 and stereo Bluetooth headphone or Bluetooth speaker (A2DP enabled) work on the TV**

A, Make the Bluetooth speaker or Bluetooth headset in pairing mode.

B, Press MFB around 3 seconds until Blue LED flashes quickly to enter into searing mode, if SK-BTI-029 does not enter into pairing mode, press double click MFB ( keep the operation consistently ) to enter into pairing mode.

C, Put the SK-BTI-029 and Bluetooth speaker or Bluetooth headset together, around 30s seconds later, BTI-029 will connect with Bluetooth speaker or Bluetooth headset automatically

D. Connect the SK-BTI-029 and TV with fiber optic cable or 3.5mm audio cable(headphone cable interface) or optical output interface( SPDIF IN)

E. It could hear the sound coming from TV in the Bluetooth headset or Bluetooth speaker. If no sound from the Bluetooth speaker or Bluetooth headset, please check the aux output or fiber optic output setting on TV , the volume of the TV is loud enough, the cable connects right or not. Use your finger to touch the DC part of the audio cable that connected with SK-BTI-029 to check if the audio source has problems. When the connection is successful and the volume of headset or speaker is big enough, you will hear a “zi,zi” sound, it means SK-BTI-029 and Bluetooth speaker or Bluetooth headphone and cables are ok, the problem may be on the audio source (TV ) .

##### **2,SK-BTI-029 and Bluetooth headset or Bluetooth speaker (which must support A2DP ) work together on the computer.**

A. Make the Bluetooth speaker or Bluetooth headset in pairing mode.

B. Press MFB around 3 seconds until Blue LED flashes quickly to enter into pairing mode, if SK-BTI-029 does not enter into pairing mode, double click MFB ( keep the action consistently )) to enter into pairing mode.

C. Put the SK-BTI-029 and Bluetooth speaker or Bluetooth headphone together, around 30 seconds later, SK-BTI-029 will connect with Bluetooth speaker or Bluetooth headphone automatically.

D. Connect the SK-BTI-029 and computer with fiber optic cable or 3.5mm audio cable(headphone cable interface) or optical output interface( SPDIF IN)

E. It could hear the sound coming from computer in the Bluetooth headset or Bluetooth speaker. If no sound in the Bluetooth speaker or Bluetooth headset, please check the aux output setting on computer is the headset output or fiber optic output, the volume of the

computer is loud enough, the cable connects right or not. Use your hands to touch the plug of the audio cable for SK-BTI-029 to check if the audio source has problems. When the connection is successful and the volume of headset or speaker is big enough, you will hear a "zi,zi" sound, it means SK-BTI-029 and Bluetooth speaker or Bluetooth headphone and cables are ok, the problem may be on the computer.

**Note:** Pass code for supported Bluetooth headset, Bluetooth receiver, Bluetooth speaker etc. is "0000", "1234", "1111", "8888" )

**3.**SK-BTI-029 and Bluetooth headset or Bluetooth speaker that supported A2DP profile worked on other audio device (must supports headphone cable or fiber optic cable ). SK-BTI-029 and Bluetooth headset or Bluetooth speaker could replace a wired earphone from wired connection to wireless connection, remove the wire limited, bring more fun for you.

### **SK-BTI-029 connect with two device simultaneously while working as a Bluetooth transmitter**

**This unit could connect with two stereo Bluetooth speakers or Bluetooth headsets to play music simultaneously**

1. Named the two Bluetooth headsets or two Bluetooth speakers as A and B.
2. Pairing with A, power on A and enter Bluetooth pairing mode (Usually red and blue lights flashing alternately, but some are led light flash quickly, different from the normal state, depending on your Bluetooth headset / speaker function operation)
3. Long press SK-BTI-029 "multi-function button" for three seconds until the blue LED blinks quickly enter pairing search mode, if SK-BTI-029 don't automatically enters pairing mode, you can double-click " multi-function key "(the action should be coherent) after enter pairing mode.
4. Put SK-BTI-029 and A together, waiting around 30s, you will see SK-BTI-029 blue led long light after it paired with A successfully, connect SK-BTI-029 to sound source and you can here voice from A, power off A and SK-BTI-029 after connection successful.
5. power on B and pairing with SK-BTI-029. (following the same pairing steps with A), power off SK-BTI-029 after pairing successful.
6. Power on A (do not enter into pairing mode, but if it enters into pairing mode, it's ok), around 10-20 seconds later (in this case, most of the Bluetooth speaker is for automatically connection, please wait a moment)

Then power on the SK-BTI-029 (no need to enter into pairing mode), it will search and connect with device A and B automatically, the pairing time will take around 30 seconds. Then connect to audio resource to check if the two devices could play simultaneously. If not, please power off SK-BTI-029, and power on SK-BTI-029 to connect with device A and B. If it does not work, please follow the steps for two connections simultaneously again. Please note that there is no other Bluetooth headset or speaker enters pairing mode when you do the operation connect with two devices.

### **The compatibility testing report for SK-BTI-029 worked as Bluetooth transmitter to connect with two device simultaneously**

1. Due to different Bluetooth chipset has different function firmware setting and different operations so some Bluetooth speaker or Bluetooth headset may have compatible problems with SK-BTI-029. When one of the devices has no sound or discontinuous playing, please re-pair the two devices two or three times to check if there has same situation, then we could have a result if it is wrong in compatibility
2. There so many Bluetooth speaker, Bluetooth headphone with different Bluetooth chipset on the market. We tested the different Bluetooth chipset compatibility with SK-BTI-029:

Bluetooth transmitter	Chipset for device A	Chipset for device B	result
SK-BTI-029	CSR 8635	CSR 8635	pass
SK-BTI-029	CSR 8635	CSR 8645	pass
SK-BTI-029	CSR 8635	CSR 8610	pass
SK-BTI-029	CSR BC57E687C	CSR 8635	pass
SK-BTI-029	CSR BC57F687A05	CSR 8635	pass
SK-BTI-029	CSR 8635	CSR 8640	pass
SK-BTI-029	CSR 8635	ISSC1681S	pass
SK-BTI-029	CSR 8635	WS9623	pass
SK-BTI-029	CSR 8635	BK 8006	pass
SK-BTI-029	CSR 8645	CSR 8645	pass
SK-BTI-029	CSR 8610	CSR 8645	pass
SK-BTI-029	CSR BC57F687A05	CSR 8645	pass
SK-BTI-029	CSR 8645	CSR 8640	pass
SK-BTI-029	ISSC1681S	CSR BC8645	pass
SK-BTI-029	CSR BC57E687C	CSR 8645	pass
SK-BTI-029	CSR BC8635	CSR 8645	pass
SK-BTI-029	WS9623	CSR 8645	pass
SK-BTI-029	CSR 8645	BK 8006	pass
SK-BTI-029	CSR 8610	CSR 8610	pass
SK-BTI-029	CSR BC57E687C	CSR 8610	pass
SK-BTI-029	CSR 8640	CSR 8610	pass
SK-BTI-029	ISSC1681S	CSR 8610	pass
SK-BTI-029	BC57F687A05	CSR 8610	pass
SK-BTI-029	WS9623	CSR 8610	pass
SK-BTI-029	BK 8006	CSR 8610	pass
SK-BTI-029	CSR BC57E687C	CSR 8640	pass
SK-BTI-029	CSR 8640	CSR 8640	pass
SK-BTI-029	CSR BC57F687A05	CSR 8640	pass
SK-BTI-029	WS9623	CSR 8640	pass
SK-BTI-029	ISSC1681S	CSR 8640	pass



SK-BTI-029	BK 8006	CSR 8640	pass
SK-BTI-029	CSR BC57F687A05	CSR BC57F687A05	pass
SK-BTI-029	CSR BC57F687A05	CSR BC57E687C	pass
SK-BTI-029	CSR BC57F687A05	ISSC1681S	pass
SK-BTI-029	CSR BC57F687A05	WS9623	pass
SK-BTI-029	CSR BC57F687A05	BK 8006	pass
SK-BTI-029	ISSC1681S	WS9623	pass
SK-BTI-029	ISSC1681S	ISSC1681S	pass
SK-BTI-029	ISSC1681S	BK 8006	pass
SK-BTI-029	BK 8006	BK 8006	pass
SK-BTI-029	CSR BC57E687C	CSR BC57E687C	pass
SK-BTI-029	CSR BC57E687C	WS9623	pass

**SK-BTI-029 connect with two device simultaneously while working as a Bluetooth receiver**

**SK-BTI-029 could connect with two mobile phone simultaneously (but could not play music from two mobile phone at the same time. you could choose any mobile phone to play music, but it need to pause or end the music from other mobile phone )**

1. Named the two mobile phone as A and B.
2. Following the pairing steps to connect A with SK-BTI-029, after successful connection, please switch off the Bluetooth of the mobile A. Double click MFB of SK-BTI-029 to enter into pairing mode.
3. Connect mobile B with SK-BTI-029. After successfully connection, power off SK-BTI-029. Switch on the Bluetooth of mobile A ,and the power on SK-BTI-029, SK-BTI-029 will connect automatically with the two mobile phones around 30 seconds.
- 4.Note:There will be only have one mobile phone can play music at the same time for the connected A and B, if you want to play music of another mobile phone, Pause the first one or turn off the music of the first one.

Package content:

SK-BTI-029	1PC
fiber optic cable	1PC
3.5mm Audio cable	1PC
Charging line	1PC
User manual	1PC

**Tips for pairing :**

1. Put the Bluetooth headset or Bluetooth speaker into pairing mode. Then power on SK-BTI-029 will connect to SK-BTI-029 quickly again, if the Bluetooth headset or Bluetooth speaker connected with SK-BTI-029 before. No need to make the SK-BTI-029 enter into pairing mode.
2. If SK-BTI-029 did not connect with the Bluetooth headset or speaker more than 1 minutes. Please try to clear up the pairing list of the SK-BTI-029. If the Bluetooth headset or Bluetooth speaker connected with SK-BTI-029 before, please reopen the SK-BTI-029 after clear up the pairing list.

### **Battery information**

Your device is powered by a rechargeable battery .The full performance of a new battery is achieved only after two of three complete charge and discharge cycles .The battery can be charged and discharged hundreds of times, but it will eventually wear out. Do not leave a fully charged battery connected to a charger since overcharging may shorten battery lifetime. If left unused, a fully charged battery will lose power with time past. Leaving the device in hot or cold places, such as in closed car in summer or winter conditions , will reduce the capacity and lifetime of the battery .Should always try to keep the battery between 15 °C and 25 °C . Battery performance is particularly limited in temperatures well below freezing .Do not dispose of batteries in a fire as they may explode .Battery may also explode if damaged.

### **Safety instruction**

Your device is excellent produce in design and craft, should be used with caution. The following suggestions will help you effectively use warranty service.

1. Keep the unit away from children .
2. Maintain equipment dry, rain, moisture and all kinds of liquids or moisture can contain minerals, corrode electronic circuit.
3. If the device is wet, please make it completely dry.
4. Do not use or put the devices in dust or dirt storage , it will damage the detachable parts and electronic components.
5. Do not use equipment stored in overheating, high temperature will shorten the service life of electronic devices, damage batteries, make some plastic parts deformation or melt.
6. Do not use equipment stored in a cold place, or when the device temperature to room temperature, its internal will form the moisture, it will destroy circuit board.
7. Do not attempt to disassemble the equipment.
8. Do not throw, beat or vibration equipment, rough treatment equipment can damage the internal circuit board and sophisticated structure.
9. Do not use strong chemicals, detergent or detergent to clean the device.
10. Do not use pigment daub equipment, daub will block sundries in the removable components and thus affect the normal operation.

Note: Don't stored SK-BTI-029 separate for more than one month without working, it should maintain charging one time every moth if long time working. It can prevents built-in battery uncontrolled excessive self-discharge phenomenon during storage.