

# Questyle Lossless Bluetooth Tx Specification and Operation instruction

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# Questyle QCC Dongle -Lossless Bluetooth Tx

In this complex world, we pursue simplicity.

At Questyle, an integral part of our mission is to provide the simplest way for all cell phone users to enjoy lossless audio from streaming platforms, anytime and anywhere. In order to meet our customers' growing demand for utmost audio quality, we are now launching our newest lossless bluetooth transmitter "QCC Dongle"

QCC Dongle is an MFi certified and Lossless bluetooth audio transmitter, supporting full-duplex voice calls, 20m enhanced signal transmission, driving-free power automatic pairing and backconnection, automatic matching of audio priority codec protocol, using the new Qualcomm QCC3086 Bluetooth V5.4 chip, supporting the full range of aptX protocols, to achieve high quality music transmission.

Questyle QCC Dongle, as an audio transmission enhancement device designed for lossless and low-delay music playback, aims to transmit lossless music from audio devices such as mobile phones to Bluetooth speakers or headphones with the highest quality and lossless by optimizing audio transmission paths and codecs.



Qualcomm® aptX™  
Adaptive



Qualcomm®  
aptX™ HD



Qualcomm®  
aptX™



LDAC

SBC

LE Audio

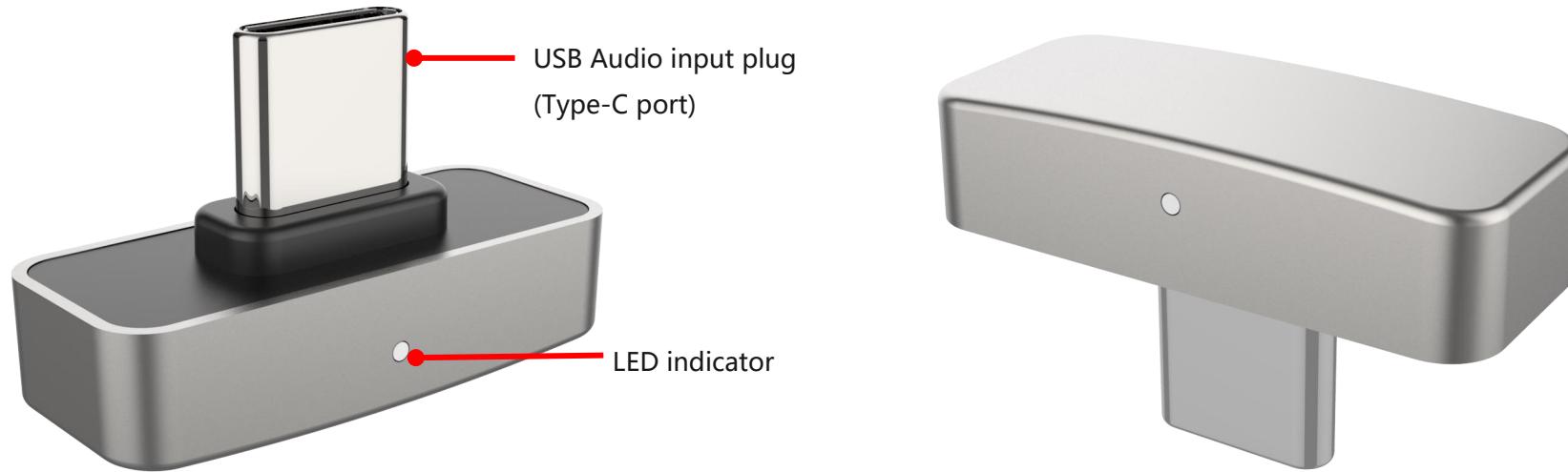
Made for  
iPhone | iPad

Questyle QCC Dongle (Lossless Bluetooth Tx) Technical Specification

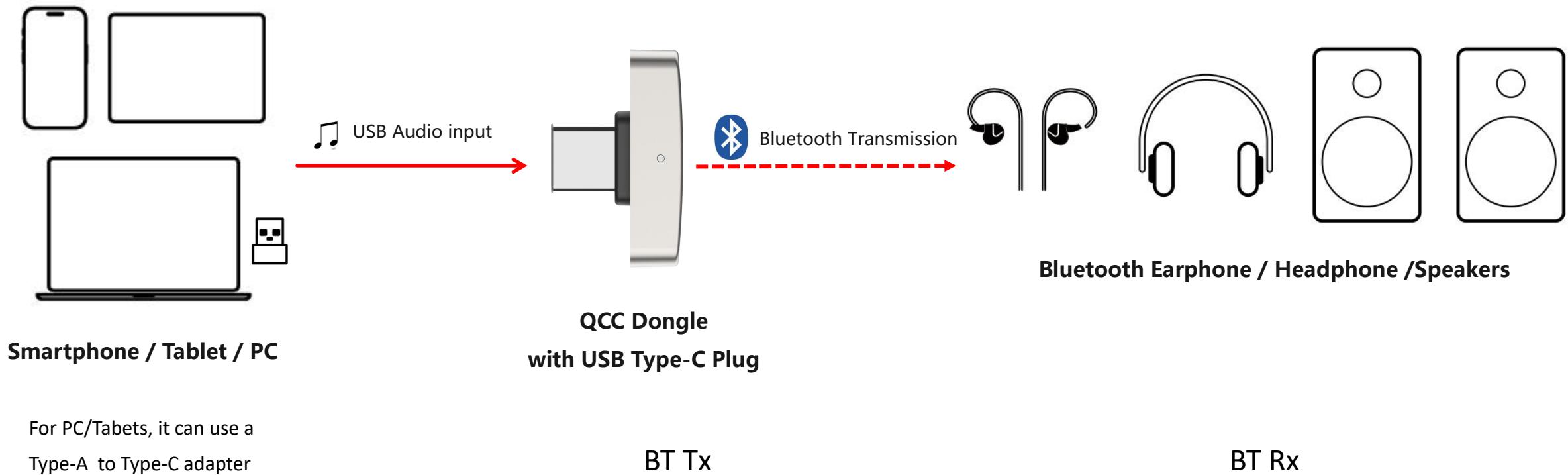
## **QCC Dongle Feature List**

# Questyle QCC Dongle Product Picture

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# Questyle QCC Dongle Audio Input and output connection



# Questyle QCC Dongle Operation Instruction

## 1. Power On / Power Off

- Insert the QCC dongle USB Type-C Plug into a USB audio device such as a mobile phone /Tablet/PC, and the QCC dongle will be powered on automatically by power supply through the USB port. The LED lights up and displays the corresponding status.
- Unplug the QCC Dongle to power off and turn off, the LED lights off.

## 2. Bluetooth Pairing and Connect

- When the QCC Dongle is powered on(by plugging in a computer/mobile phone /iPad) for the first time after out of box, the Dongle will automatically enter the Bluetooth pairing mode, and the LED on the Dongle will flash red and blue alternately.
- At this time, set the Bluetooth SINK device (Bluetooth earphone or speakers) into the pairing state.
- The Dongle(Tx) and the SINK device(Rx) are automatically paired and connected. At this time, the LED on the Dongle enters the state of constant light (red/blue/white according to audio codec) as below.

The LED color indicates the current Audio Codec:

APTX Adaptive	<----->	Constant blue
Aptx HD & Classic	<----->	Constant white
SBC	<----->	Constant red

(Note: The connected Bluetooth SINK devices should support the corresponding Audio Decodec, priority: Aptx Adaptive > Aptx HD > Aptx classic > SBC )

# Questyle QCC Dongle Operation Instruction

## 3. Bluetooth Reconnect

### Power on re-connection::

- After the QCC Dongle is powered on again (through plug into USB audio devices), it will automatically try to re-connect to the last Paired device (Paired device list =2) within 20 seconds. When the Dongle fails to re-connect to the last paired device within 10 seconds, it will try to connect back to the second last paired device again within another 10s.
- If the QCC Dongle fails to reconnect to both two devices, it will switch to pairing mode and maintain the pairing mode for 20s before pairing a new device. If no device is paired and connected, the Dongle enters idle mode.

### Out of Range re-connection:

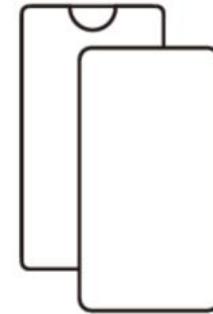
- If the distance between the QCC Dongle and the SINK device (eg Bluetooth earphone or speakers) is beyond the Bluetooth range(20m), it will disconnect and try to reconnect for 3 minutes. If Source and Sink devices return to the Bluetooth range within 3 minutes, the reconnection will be successful; If the connection fails within 3 minutes, the QCC Dongle will enter idle mode.
- At this time, user can power off and power on to enter reconnect mode again.

# Packing and Accessories

	<b>QTY</b>	<b>Remark?</b>
QCC Dongle Unit	1	MF Certified
Warranty Card	1	
User Manual	1	



主机 x 1



说明书 x 1  
保修卡 x 1

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.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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.

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

Questyle  
Audio Engineering

[www.questyle.com](http://www.questyle.com)