



kcSharedStereo v0.2.3
User Guide
May 14, 2015

Introduction

Our kcSharedStereo implements the CSR Share Me feature add-on to standard Bluetooth stereo Headset firmware. The SharedStereo provides the extra feature, where two stereo Headset devices, both with the SharedStereo feature, can forward a Bluetooth stereo audio stream from one Headset to a second Headset. Either device can receive the original stereo signal from the source device (phone, mp3 player), and provide the shared stream to the other device.

The primary and secondary devices can be connected prior to getting a stereo signal, or while the primary device is currently receiving the stereo signal. The devices do not save any link or pairing between the primary and secondary devices. They must be manually connected each time.

Instructions

To connect the two Headset devices, long press the FF and VOLUP buttons for Peer Inquire (search) on one device and RR VOLUP buttons for Peer Discoverable on the other device.

It does not matter which HS is connected to the audio source, as long as the complimentary button is pressed on the peer device. The two devices will both show they are in a discovery mode state. After they find and connect with each other, they will both show the connected state. Note that a HS going into peer device discovery or inquiry that is already connected to another device will not lose that connection. The peer inquiry and discovery will last until they time out.

In the case of an incoming call upon the audio source, both audio headsets will stop audio streaming and remain in a connected state. Once A2DP streaming is resumed by the audio source, audio sharing will resume between all devices.

Once streaming between two SharedStereo devices and an audio source has been established, AVRCP commands will work for the primary device. This means the headset device directly connected to the audio source will have direct control of play/pause/FF/RR commands for all devices. The peer device will have control over its own volume levels.

There is no UART interface in this build.

LED's:

- Two Red blinks: Connectable
- Alternating Red/Blue lights: Connectable/Discoverable
- Three Fast Blue blinks: Connected to a peer device or source
- Single Blinking Bluelight: Outgoing/Incoming Calls established
- Slow Blinking Blue: Call Active
- Slow Blinking Red: ThreeWayCalling Call waiting/Call on Hold/Multi-Party Call
- Two Blue Blinks: A2DP Streaming

DFU – Pio 2

Hold high during power up

BTB – Pio 4 (Bluetooth Button)

Short Press = Voice Dial/Accept Call/End Call

2.5 sec Press = Reject Call / Pairing Mode

VOLUP – Pio 5**VOLDN – Pio 6**

Short Press = Volume Up/Down

RR – Pio 7**FF – Pio 8**

Short Press = Prev/Next Track

Hold = Fast Backward/Forward

Release = Stop Backward/Forward

FF + VOLDN

2.5 sec Press = Peer Session Inquire

DD + VOLUP

2.5 sec Press = Peer Session Conn/Disc

FF + DD

1.0 sec Press = End Peer Session

VOLUP + VOLDN

5.0 sec Press = Reset Paired Devices