

Circuit Description

When the power buttons on the Headset are pressed for six seconds simultaneously, the device go to Pairing State. In this state it inquire about it's neighboring devices, where it find a target device and establish a connection and it go to Streaming State. Here a full duplex single channel audio link is established. When the power button is again pressed for six seconds, the device go to Power Down state.

The Headset use NXP's BGB204 Bluetooth chip for transmission and reception of data wirelessly. It also use NXP's PNX0101 microprocessor for running the application. Data is communicated between PNX1010 and BGB204 through serial port. TI's LP3947 is used as a battery charger IC.