

Circuit Description

When the power buttons on the Headset are pressed for six seconds simultaneously, the device goes to Pairing State. In this state it inquires about its neighboring devices, where it finds a target device and establishes a connection and it goes 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 goes to Power Down state.

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