

Circuit Description

When the power buttons on the System Adaptor and the Audio Adaptor are pressed for six seconds simultaneously, both the devices go to Pairing State. In this state they inquire about their neighboring devices, where they find a target device and establish a connection and then 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 devices go to Power Down state.

Both the System Adaptor and the Audio Adaptor use CSR's Class-1 Bluetooth module for transmission and reception of data wirelessly. They also use NXP's PNX0101 microprocessor for running the application. Data is communicated between PNX0101 and the Bluetooth module through serial port. TI's LP3947 is used as a battery charger IC.