

Bluetooth Headset Circuit Description Guide

Model : BS-207

REV : 01

The Bluetooth Speaker board is made up of:

- Bluetooth module BM2028
- Push button
- Microphone circuit
- Audio amplify circuit
- Speaker
- Recharge circuit
- Battery
- Micro USB jack
- LED

Bluetooth module BM2028

Cost-effective single-chip solution for stereo headset and wireless speaker applications

A2DP1.2 and AVRCP1.0 profiles enabled with SBC encoder for streaming audio over Bluetooth and for remote control functionality

- High-quality audio 95dB SNR on DAC playback
- 64MIPS Kalimba DSP coprocessor
- HFP 1.5 and HSP 1.0 support
- cVc support for echo and noise reduction
- Low-power consumption
- Fully qualified Bluetooth v2.1 + EDR specification system with support for secure simple pairing
- power and -92dBm receive sensitivity
- 2 integrated linear regulators with 1.5V output from 1.7V to 1.95V input
- Integrated switch-mode regulator
- Integrated lithium battery charger
- It work with a clock 26MHz produce by crystal.

Push button

- Three push buttons: Vol+, Vol-, Next track, previous track, and Multi function button.

Microphone circuit

- Sound convert to signal.

■Audio amplify circuit

Audio amplify circuit is made by U4,PT2308 IC, U3,PAM8406 IC and circumjacent components.

Speaker

- For signal convert to sound .

■Recharge circuit

Recharge circuit is made by recharge manage IC U2, 4054 and circumjacent components.

Battery

- Lithium Battery
- Operating Voltage Range: 3.3 ~ 4.2V

Micro USB jack

- Connect to USB jack for battery power charge

LED

- Provide Bluetooth function, low power and charging status