

Circuit Principle easy description:

This device is a Bluetooth sound box.

It works in Bluetooth band range. The frequency range of Bluetooth module is 2.402GHZ to 2.480GHZ, It works in Frequency-Hopping Spread Spectrum mode. Modulation type are GFSK, $\pi/4$ -DQPSK, 8-DPSK. The system clock of Bluetooth module is 16MHZ, Use a PCB antenna, Wireless communications distance up to 20 feet.

The main chip FP-BM81SPK02 is a Bluetooth chip with MCU and audio function. It is for Bluetooth communication, status indication and Key control input. Build in a Li-polymer Battery power supply with charging circuit and power on/off control. The chip APL3202B is a Li-ion charge chip and charge by USB port with a macro USB cable. IC PAM8004 is an audio AMP chip .Two input audio signals selectable for audio AMP, One is line in, other one is audio from Bluetooth module.