

BTS001

Circuit Description

PART 1——BLUETOOTH MODULE KMBT007A (U1)

The part is a Bluetooth sub-system using BlueCore5-Multimedia External Chipset (BT Chip) from leading Bluetooth chipset supplier Cambridge Silicon Radio. The BT Chip is a single-chip radio and Baseband IC for Bluetooth 2.4GHz to 2.4835GHz systems. Plug-n-Go contains 8Mbits of Internal Flash Memory, the 26.00MHz Crystal Oscillator Offer external reference clock signal for BT Chip. after the Bluetooth module and SMD antenna build the voice link between the external equipment on frequency 2.4GHz to 2.4835GHz by modulation FHSS/GFSK to avoid the interference in the same band with other equipment and transfer the voice to speaker, Microphone Input voice information.

PART2——VOLTAGE REGULATOR (U4、 U3)

This IC U4 transforms the DC power source to DC 5V, and then U3 regulate the voltage from DC 5V to DC 3.3V, which is be used to power the whole circuit。

PART 3——Audio Amplifier (U5)

The IC U5 is used to amplify the audio signal output from Bluetooth Module, and then out put to the next audio power amplifier。

PART4——3.5” Line in

Input external stereo audio to the speaker。

PART 5——Audio Power Amplifier (U2)

The IC U2 is used to amplify the audio signal and driver the loudspeakers。

PART 5—— DC Jack

Through the DC jack, it can switch to AA battery or external DC power source automatically。

Antenna Name	Model(s)/Type(s)	
Antenna	Model/Part Number	PCB layout
	Manufacturer:	K-mate
	Frequency Range	2400MHz— 2483.5MHz
	Connector Type/ Maximum Gain	Build in; 0dBi
	Antenna Type/ Pattern	PCB layout
	Measurement:	