

BTS002

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 chip 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.

PART 2——Voltage Regulator (U4)

This IC U4 transforms the battery power to DC 3.3V, which is be used to power the whole circuit.

PART 3—— Electronic Switch (U3)

Electronic Switch U3 is used to switch to Line OUT or Line IN function. The user can choose to use Line IN or Line OUT function by the key K1, (See Schematics for detail)

PART 4——Audio Power Amplifier (U2)

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

PART 5——3.5” Line IN/OUT

Line IN——Input stereo audio to the speaker, and listen to music by the Bluetooth speaker。

Line OUT—— Receive audio or music from your Bluetooth phone or Bluetooth music player wirelessly, and then output the audio to your car stereo system or home stereo system by the ‘Line OUT’ feature.

PART 6—— Charge IC (U5)

The IIC U5 is used to control the charging process, to prevent over charged, etc.

Antenna Description:

Antenna information:	Antenna Name	Model(s)/Type(s)	
	Bluetooth Chip Plastic Antenna	Model/Part Number:	AFA-ANT-027-K01
Manufacturer:		LOTES	
Frequency Range:		2.4GHZ-2.4835GHZ	
Connector Type/ Maximum Gain		SMD 0-2dBi	
Antenna Type/ Pattern:		Omni-Directional	
Measurement:		5.6*2.0*1.2MM	

Antenna

