

Circuit Description

As we can see from the Schematic Document, the important part of the whole circuit is the U1. The U1 is a single chip radio and base band IC for Bluetooth 2.4GHz systems including enhanced data rates to 3Mbps. Which receives hopping frequency signal through Antenna, and change it into audio signal. So this can realize wireless transmission. It can control its surrounding circuit and realizes lots of function by the software.

The power of all the circuit is the battery which is 3.7V/120mAh. The SW1 is the On/Off Button, when you press it for about 3-4 second till the red and blue flash alternately that product enters pairing status , after you turn on the product, press the button for about 3-4 second , the Bluetooth KT/CO will turn off. Pressing the switch SW2 and SW3 could adjust the voice of the speaker.

The D1 and D2 are LED .They are indication light, which can indicate the working state of the product, they will be flashing when the LED0 and LED1 Pin of the Bluetooth Module output high and low voltage quickly. The form below indicates the relation between LED indication and the

LED of headset	Working Status
Red and blue blink alternately	Being pairing
Blue blinks every 3 second	Pairing unsuccessfully, waiting for pairing
Blue blinks quickly 2 times every 3 seconds	Standby status
Blue blinks quickly	Conversation status
Red light bright on	Charging

working status.

The U3 is a CMOS LDO, which could control the microphone to work or mute. If the base of U3 PIN5 is high, its collector and the emitter will be open, else will be cut off. When the product is working, the PIO4 of U1 will output high voltage, then the collector and the emitter of U3 will be open , at the same time, the MIC-N will be high, the MIC1 will be working. If the

PIO4 output low voltage, the MIC will be mute. The dock of Bluetooth KT/CO is used for the headset charging, the power of Bluetooth KT/CO can from the computer or the charger.

When the headset of Bluetooth KT/CO is paired with your mobile telephone or other Bluetooth equipment, the information can be transmitted by the Bluetooth, so it is convenience to communicate with your friends by the headset instead of mobile telephone.