

. BTE 010 Circuit Description

As we can see from the Schematic Document , the important part of this product is the headset,

LED of headset	Working Status
Red and blue blink alternately	Being pairing
Blue blinks every 1 second	Pairing unsuccessfully, waiting for pairing
Blue blinks quickly 2 times every 4 seconds	Standby status
Blue blinks quickly	Conversation status
Red light bright on	Charging

which is used to communication with other people when it paired with your mobile phone. The dock of BTE010 is used for the headset charging, the power of BTE010 can from the computer or the charger.

The important part of the whole circuit is the Blue Core (CSR BC5F687A04) . Which receives hopping frequency signal though Antenna(E1), 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/85mAh. The S3 is the On/Off Button, when you press it for about 3-5 second till the red and blue flash alternately that product enters pairing status , after you turn on the product, press the button for about 3-5second , the BTE010 will turn off. Pressing the switch S1 and S2 could adjust the voice of the speaker.

The D1 and D2 are indication LED light , which can indicate the working state of the product, they will be flashing when the LED1 and LED2 Pin of the Blue Core output high and low voltage quickly. The form below indicates the relation between LED indication and the working status.

The Q1 is a NPN transistor, which could control the Blue Core reset. If the base of Q1 is high, its collector and the emitter will be open, else will be cut off. When the USB 5V plug is inserted, the RST#of Blue Core will transition is low , at the same time, Blue Core will be reset.

When the headset of BTE010 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.

Antenna Description

Antenna Name	Model(s)/Type(s)	
Antenna	Model/Part Numbe	<u>Electric wire</u>
	Manufacturer:	K-mate
	Frequency Range	2400MHz—2483.5MHz
	Connector Type/ Maximum Gain	Solder/Built in; 0dBi
	Antenna Type/ Pattern	<u>Electric wire</u>
	Measurement:	