

Bluetooth Headset schematic diagram description

1. Schematic diagram description

The BS020RD Bluetooth headset based on CSR BC57F687A05 QFN chipset, It is support the headset profile and handfree profile. It is compliant to Bluetooth V2.1 + EDR specification.

References to the document <The BS020RD Bluetooth Headset schematic diagram>

U1(BC57F687A05) is a single chip Radio and baseband IC for Bluetooth 2.4GHZ systems.it provides Bluetooth RF, baseband and some power regulator functions. It is integrated DC +1.8V power supply. +1.8V uses for the PIO pull up such as the buttons.

U2 is serial EERPOM, it use for store the configurations of MMI.

Y1 is a crystal oscillator, provides 16M clock reference.

BS020RD uses PCB copper antenna for RF transceiver.

BS020RD has Blue and Red indicator lights to show different working state, and has MFB, Volume up, Volume Down buttons to operation the headset.

2. The Signal Path description

When the BS020RD headset connects to a mobile phone , the built-in MCU will control the RF modem to process the baseband signal, indicate the working state by the LED. When uses the headset, the voice can be picked by microphone. There are Multi-function Button, Volume up button and Volume Down button for you to increase the volume or decrease the volume of the speaker.